



Submitted to:

Florida Department of
Environmental Protection

CERTIFICATION REPORT CONSTRUCTION OF CELL 2

J.E.D. Solid Waste Management Facility
Osceola County, Florida

Prepared for



Waste Services of Florida, Inc.
1501 Omni Way
St. Cloud, Florida

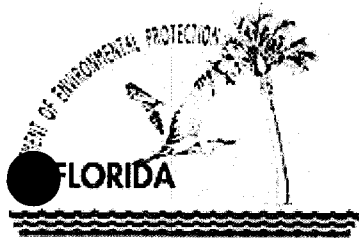
Prepared by



GEOSYNTEC CONSULTANTS

14055 Riveredge Drive, Suite 300
Tampa, Florida 33637

Project Number FQ0852
April 2006



Department of Environmental Protection

Jeb Bush
Governor

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

David B. Struhs
Secretary

ELECTRONIC MAIL

April 20, 2006

Mr. Timothy J. Salopek, President
(tjsomni@aol.com)
Omni Waste of Osceola County, LLC
1501 Omni Way
Holopaw, Florida 34773

OCD-SW-06-0184

Osceola County SW
Oak Hammock Disposal Facility
Certification of Construction Completion – Cell 2

Dear Mr. Salopek:

This will acknowledge receipt of the *Certification of Construction Completion of a Solid Waste Management Facility*, dated, April 19, 2006, by Ayushman Gupta, P.E. of GeoSyntec Consultants, addressing Cell 2.

Based upon my inspection on April 17, 2006, construction of the Cell 2, as certified by the Engineer of Record, has been completed and is substantially consistent with plans and specifications approved under DEP Permit No. SC49-0199726-001. Accordingly, solid waste may be placed in Cell 2 for disposal.

Neither this letter nor any prior agreement with the Department relieves you of the responsibility of complying with any applicable ordinances, rules, or laws of any local, county, state, or federal government entity.

Please contact me at 407-893-3329 if you have questions or need further information.

Sincerely,

James N. Bradner, P.E., Manager
Solid and Hazardous Waste Program

/jnb

cc: Matt Orr, Site Supervisor (morr@wsii.us)
Ayushman Gupta, P.E., GeoSyntec Consultants (agupta@geosyntec.com)

19 April 2006

Mr. James N. Bradner, P.E.
Program Manager, Solid/Hazardous Waste
Florida Department of Environmental Protection, Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Re: Certification Report – Cell 2
Oak Hammock Disposal Facility
Waste Services, Inc.
Permit Application No. SC49-0199726-001

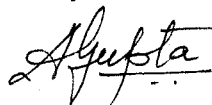
RECEIVED
APR 20 2006
Central Dist. - DEP

Dear Mr. Bradner:

Submitted herewith are two (2) copies of the certification report (including Record Drawings) for Cell 2 at the Oak Hammock Disposal Facility in Osceola County, Florida. FDEP form #62-701.900(2) titled *Certification of Construction Completion of a Solid Waste Management Facility*, duly completed and signed, is also attached. A copy of a compact disk (CD) containing the photos presented in Appendix D is included on the back of the report.

If you have any questions or need additional information, please do not hesitate to contact the undersigned.

Sincerely,



Ayushman Gupta, P.E.
Senior Engineer

Attachments

Copy: Mr. Shawn McCash, Waste Services, Inc.

Submitted to:



Florida Department of
Environmental Protection

CERTIFICATION REPORT CONSTRUCTION OF CELL 2

J.E.D. Solid Waste Management Facility
Osceola County, Florida

Prepared for



Waste Services of Florida, Inc.
1501 Omni Way
St. Cloud, Florida

RECEIVED
APR 20 2006
Central Dist. - DEP

Prepared by



GEOSYNTEC CONSULTANTS

14055 Riveredge Drive, Suite 300
Tampa, Florida 33637

Project Number FQ0852
April 2006

Al Gupta
4/19/06



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: SC-49-0199726-001 County: OSCEOLA

Name of Project: OAK HAMMOCK DISPOSAL FACILITY

Name of Owner: OMNI WASTE OF OSCEOLA COUNTY, LLC

Name of Engineer: GEOSYNTEC CONSULTANTS

Type of Project: CONSTRUCTION OF CELL 2

Cost: Estimate \$ _____ Actual \$ _____

Site Design: Quantity: 1,700 ton/day Site Acreage: CELL 2, APPROX. 12.5 Acres

Deviations from Plans and Application Approved by DEP: _____

NO SIGNIFICANT DEVIATIONS FROM THE APPROVED PLANS
AND APPLICATION.

Address and Telephone No. of Site: 1501 OMNI WAY, ST. CLOUD, FLORIDA 34773

TELEPHONE : (407) 891-3720

Name(s) of Site Supervisor: MATT ORR (WSI)

Date Site inspection is requested: APRIL 2006

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. SC-49-0199726-001 :Dated: 18 OCTOBER 2005

Date: 19 APRIL 2006

[Signature]
Signature of Professional Engineer

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1. INTRODUCTION

1.1 Overview

This certification report summarizes the Construction Quality Assurance (CQA) activities performed by GeoSyntec Consultants (GeoSyntec) in Tampa, Florida during construction of Cell 2 at the Oak Hammock Disposal Facility (OHDF), a Class I landfill, located in Osceola County, Florida. OHDF operates under the name of J.E.D. Solid Waste Management Facility. OHDF is owned by Omni Waste of Osecola County, LLC, which is a wholly owned subsidiary of Waste Services of Florida, Inc. (WSI). The CQA activities performed by GeoSyntec included monitoring of:

- (i) earthwork construction;
- (ii) geosynthetics installation;
- (iii) leachate collection system construction; and
- (iv) miscellaneous activities associated with development and ongoing operation of the landfill.

The CQA activities were performed to confirm that the construction materials and procedures were in compliance with the Construction Permit SC49-0199726-001 issued by the Florida Department of Environmental Protection (FDEP), Central District in accordance with Chapter 62-701, Solid Waste Management Facilities, Florida Administrative Code (FAC).

Cell 2 was constructed in accordance with the above mentioned permit and associated permit drawings. This certification report was prepared for Mr. Shawn McCash of WSI. The report was prepared by Mr. Kirk Wills and Mr. Jay Eun and was reviewed by Mr. Ayushman Gupta, P.E., all of GeoSyntec.

It is noted that this certification report covers the construction of Cell 2 only. The construction of the leachate transmission line and the leachate storage area were included in GeoSyntec's report entitled "*Certification Report, Construction of Cell 1A and Leachate Storage Area*", which was submitted to FDEP in January 2004. Hereafter, the certification report for construction of Cell 1A and the leachate storage area is referred to as Cell 1A Certification Report.

1.2 **Report Organization**

This certification report is organized as described below.

- A brief description of the project is provided in Section 2;
- A summary of the CQA program is presented in Section 3;
- A description of the CQA monitoring and testing activities performed during earthwork related construction activities in Cell 2 is provided in Section 4;
- A description of the CQA monitoring and testing activities performed during the geosynthetics installation in Cell 2 is provided in Section 5;
- A description of the CQA monitoring and testing activities performed during construction of the leachate collection system in Cell 2 is provided in Section 6;
- A description of the CQA monitoring and testing performed during miscellaneous activities associated with development and ongoing operation of the landfill is provided in Section 7; and
- A summary of the observations resulting from the CQA monitoring and testing activities performed by GeoSyntec and a certification statement signed and sealed by a professional engineer registered in the State of Florida are presented in Section 8.

The nuclear moisture/density test logs are included in Appendix A. The geomembrane field logs are provided in Appendix B. Record drawings for the top of the liner subbase layer including the top of low permeability soil in sump, and the primary and secondary geomembrane panel layouts are included in Appendix C. A photographic log of major construction activities is included in Appendix D of this report.

2. PROJECT DESCRIPTION

2.1 General

The OHDF is located in eastern Osceola County, Florida, west of highway U.S. 441, approximately 6.5 miles south of Holopaw. The landfill facility is connected to highway U.S. 441 by a 2.86-mile paved access road, which was constructed as part of the overall project site development.

The OHDF site comprises a total of approximately 2,179 acres. The landfill footprint at final build-out is approximately 264 acres and consists of a total of 21 landfill cells that provide available waste capacity for approximately 30 years. FDEP issued a construction and operation permit for the landfill on 18 October 2002. The first five-year construction and operation permit addresses Phase 1 development of OHDF. Phase 1 includes up to four landfill cells (Cells 1 through 4) in the northern part of the landfill and covers approximately 52 acres. Cell 2 is approximately 12.5 acres.

Cell 1 (in Phase 1) was constructed in two parts. The construction of Cell 1A and 1B were completed in January 2004 and May 2004, respectively. The construction of Cell 4 was completed in May 2005. It is noted that Cell 4 was the second cell to be constructed as part of the Phase 1 development of the OHDF. This report addresses the CQA activities performed during construction of Cell 2, i.e., the third cell constructed at the OHDF as part of the Phase 1 development. Cell 3 is expected to be constructed as the fourth (and last) cell of Phase 1 later this year.

2.2 Construction Activities

This certification report pertains to CQA monitoring and testing activities performed for construction of Cell 2 only. The construction of Cell 2 included earthwork, liner system installation, and leachate collection system construction as indicated in the construction drawings prepared for the construction of Cell 2. The CQA monitoring and testing activities performed for construction of the leachate transmission line and leachate storage area were discussed in the Cell 1A Certification Report (GeoSyntec, January 2004).

The Cell 2 design incorporates a double-composite liner system and other engineering controls that meet or exceed the requirements of Chapter 62-701, FAC. The Cell 2 liner system consists of the following components (from top to bottom):

- minimum 24-in (610-mm) thick protective soil layer;

- primary geocomposite drainage layer, consisting of a high-density polyethylene (HDPE) geonet with a needle-punched, non-woven geotextile heat bonded to each side, hereafter referred to as primary geocomposite;
- primary liner, consisting of a 60-mil (1.5-mm) thick textured HDPE geomembrane;
- primary geosynthetic clay liner (GCL) consisting of an internally reinforced composite, composed of granular sodium bentonite encapsulated between a needle-punched non-woven geotextile and a woven geotextile;
- secondary geocomposite drainage layer, consisting of a HDPE geonet with a needle-punched, non-woven geotextile heat bonded to each side, hereafter referred to as secondary geocomposite;
- secondary liner, consisting of a 60-mil (1.5-mm) thick textured HDPE geomembrane;
- secondary GCL consisting of an internally reinforced composite, composed of granular sodium bentonite encapsulated between a needle-punched non-woven geotextile and a woven geotextile; and
- minimum 6-in (152-mm) thick prepared liner subbase.

The Cell 2 leachate collection system consists of the following components:

- a 6-in (152 mm) diameter HDPE perforated leachate collection pipe surrounded by gravel aggregate and non-woven geotextile filter fabric, as part of the primary leachate collection system; and
- a 6-ft (1.83 m) wide secondary geocomposite layer as part of the secondary leak detection system.

3. CONSTRUCTION QUALITY ASSURANCE PROGRAM

3.1 General

The scope of CQA monitoring, testing, and documentation services performed by GeoSyntec during the construction of Cell 2 at the OHDF included review of documents, field CQA operations, and preparation of this final certification report and record drawings for the liner system. These activities are described in the following sections of this report.

GeoSyntec provided the CQA monitoring, testing, and documentation as well as the original design and construction drawings. A list of personnel involved in construction of Cell 2 at the OHDF is included in Section 3.5 of this report.

The earthwork for construction of Cell 2 commenced on 7 December 2005. The installation of the liner system in Cell 2 commenced on 17 February 2006. The placement of the protective soil layer in Cell 2 commenced on 4 April 2006. Construction of Cell 2 (described in this certification report) was substantially completed on 17 April 2006, i.e., all construction activities required for proper functioning of Cell 2 have been completed as discussed during the Florida Department of Environmental Protection (FDEP) inspection on 17 April 2006.

3.2 Related Documents

As previously noted, this certification report summarizes the CQA activities performed by GeoSyntec during construction of Cell 2 at the OHDF. The CQA activities conducted by GeoSyntec were intended to satisfy the requirements of the following documents:

- permit application entitled "*Application for a Permit to Construct and Operate a Class I Landfill*", prepared and submitted by GeoSyntec Consultants, Tampa, Florida on 24 May 2002 and approved by the FDEP Central District on 18 October 2002;
- "*Construction Quality Assurance (CQA) Plan*", Appendix Q of the OHDF Permit Application, dated May 2002;
- "*Technical Specifications*", Appendix P of the OHDF Permit Application, dated May 2002;
- permit drawings entitled "*Oak Hammock Disposal, A Solid Waste Facility*", dated May 2002;

- construction drawings entitled "*Oak Hammock Disposal Facility, Holopaw, Florida (J.E.D. Solid Waste Management Facility), Cell 2 Construction Drawings – Geosynthetics*" and Project Manual containing Technical Specifications, dated October 2005, prepared by GeoSyntec Consultants, Tampa, Florida; and
- construction drawings entitled "*Oak Hammock Disposal Facility, Holopaw, Florida (J.E.D. Solid Waste Management Facility), Cell 2 Construction Drawings - Earthwork*", dated October 2005, prepared by GeoSyntec Consultants, Tampa, Florida.

All of the above documents are hereafter collectively referred to as the CQA Documents in this certification report. During construction, minor modifications were made to these documents to include clarifications to the intent of the design and to accommodate existing site conditions or preferred construction techniques. However, no substantial changes were made to the CQA Documents.

3.3 Field CQA Operations

The following activities were performed as part of GeoSyntec's on-site CQA services:

Earthwork:

- collecting samples of soils used as general fill to construct the subgrade and liner subbase in Cell 2 for testing at an off-site geotechnical laboratory;
- collecting samples of soils used in protective soil layer for testing at the off-site geotechnical laboratory;
- reviewing and evaluating geotechnical laboratory test results to ensure compliance with the requirements of the CQA Documents;
- monitoring placement, grading, and compaction of earthwork related construction activities;
- testing in-situ density, moisture content, and percent compaction of earthwork related construction activities to ensure compliance with the requirements of the CQA Documents;
- notifying Contractor of areas that need additional compaction based on failing in-situ tests and re-testing these areas to ensure compliance with the requirements of the CQA Documents; and
- monitoring anchorage of the geosynthetics in the perimeter anchor trenches.

Geosynthetics:

- monitoring delivery, storage, and tracking the inventory of geosynthetic materials delivered for the project;
- coordinating the collection of geosynthetic conformance samples from in-plant sources or delivered rolls and forwarding samples to an off-site geosynthetics testing laboratory;
- collecting and reviewing geosynthetic manufacturers' quality control (MQC) certification documents and geosynthetic laboratory conformance test results to verify compliance with the requirements of the CQA Documents;
- monitoring installation of geosynthetic materials in Cell 2 including trial seams, destructive and nondestructive tests, and repair operations; and
- performing destructive testing of geomembrane seams at the minimum frequency required by the CQA Documents.

Leachate Collection System:

- reviewing quality control (QC) documents of materials used in the leachate collection system, geotechnical laboratory conformance test results on samples of aggregate, and geosynthetic laboratory conformance test results on samples of geotextile filter/separator fabric to verify compliance with the requirements of the CQA Documents; and
- monitoring construction of leachate collection system in Cell 2.

Miscellaneous Activities:

- monitoring placement, grading, and compaction of soils within the owner's operation area, Cell 3 footprint, and contractor's staging area as required by the CQA Documents;
- monitoring installation of HDPE culvert pipes; and
- abandonment of piezometers DP-3 and DP-4 which were located within the footprint of Cell 3; and
- monitoring placement, grading, and compaction of limerock base course along the perimeter maintenance road located on the east and north sides of Cell 2.

During construction activities involving monitoring and/or testing, the observations made and results obtained by GeoSyntec CQA personnel were compared with the requirements of the CQA Documents. The construction manager and the appropriate contractor were notified of deficiencies in construction practices and/or materials to ensure appropriate corrective actions are taken. The corrective actions were monitored and/or tested by CQA personnel to ensure compliance with the requirements of the CQA Documents.

3.4 Certification Report and Record Drawings

Record drawings for Cell 2 liner subbase including top of low permeability layer in sump, primary geomembrane, and secondary geomembrane and this CQA certification report were prepared as the final task of the CQA program for construction of Cell 2. The record drawings are included in Appendix C of this report. This certification report summarizes the CQA monitoring, testing, and documentation activities performed by GeoSyntec.

During construction of Cell 2, CQA monitoring and testing activities were documented by CQA personnel in Daily Field Reports (DFRs) and various other forms. In addition, QC certificates for the geosynthetics and other materials and surveyor's data were provided to GeoSyntec for review. These and other documents are maintained by GeoSyntec and will be made available for FDEP review upon request. Results of CQA monitoring and testing activities that are critical with respect to the satisfactory performance of Cell 2 at the OHDF and protection of the surrounding environment have been summarized in a tabular form and are included in this certification report.

3.5 Project Personnel

Major personnel or representatives of the firms involved in the project are as follows:

Owner:

Waste Services, Inc.

- Shawn McCash, Sr. Vice President of Operations and Engineering
- Matt Orr, District Manager
- Mike Rowley, Operation Manger

CQA Consultant:

GeoSyntec Consultants - Tampa, Florida

- Ayushman Gupta, P.E., Engineer of Record
- Juan Quiroz, Ph.D., Project Engineer

- Kirk Wills, CQA / Project Manager
- Rick Hastie, Site CQA Manager

General Contractor:

Comanco Environmental Corp., Plant City, Florida

- Randy Adkins, Vice President
- Dave Petty, Regional Manager
- Steve Kitzmiller, Regional Project Manager
- Mike Daniels, Project Manager
- Jack Watkins, Superintendent

Earthwork Subcontractor:

G-4, Okeechobee, Florida

- Ray Parker, Project Manager
- Brad Raulerson, Foreman

Geosynthetics Installer:

Comanco Environmental Corp., Plant City, Florida

- Balatazar Martinez Ortiz, Site Superintendent

Surveyor:

Hartman & Associates, Inc., Orlando, Florida-

- Lawrence E. Jenkins, Professional Surveyor

Geotechnical Laboratories:

Excel Geotechnical Testing, Roswell, Georgia

- Nader Rad, Ph.D., P.E., Project Manager

Geotechnical and Environmental Consultants (GEC),
Orlando, Florida

- Michael W. Byerly, P.E., Project Manager

Geosynthetics Laboratory:

TRI/Environmental, Austin, Texas

- Sam Allen, Project Manager

4. CONSTRUCTION QUALITY ASSURANCE - EARTHWORK

4.1 General

GeoSyntec monitored earthwork related to construction of Cell 2 at the OHDF. Earthwork activities in Cell 2 included construction of subgrade, 6-inch thick liner subbase, intercell berms (between Cell 2 and future Cell 3 on the south side), installation of protective soil layer, and anchorage of the geosynthetic components of the double-composite liner system.

Earthwork related to construction of Cell 2 is discussed in this section. Earthwork related to the construction of the landfill perimeter berm (on north and east side of Cell 2); intercell berm between Cell 1 and Cell 2; and the low-permeability soil layer in the Cell 2 sump area were discussed in the Cell 1A Certification Report. It is noted that the low permeability soil layer in the sump area was initially over-built to shed water. This layer was graded to the required shape (in accordance with the Construction Drawings) during Cell 2 construction.

The materials used to construct Cell 2 included general fill and protective soil. General fill was used to construct the subgrade of Cell 2, intercell berms, 6-inch thick liner subbase, and anchorage of the geosynthetics. Protective soil was used for a minimum 2-ft thick protective soil layer over the geosynthetic liner system in Cell 2.

CQA personnel observed the earthwork related construction activities and tested the soils to confirm that the material properties conformed to the CQA Documents, maximum lift thicknesses were not exceeded, and compaction requirements were met. During construction, geotechnical soil tests were performed at one of the off-site geotechnical laboratories. The off-site geotechnical laboratories included Geotechnical and Environmental Consultants, Inc. (GEC), Orlando, Florida and Excel Geotechnical Testing (EGT), Roswell, Georgia.

4.2 Soil Source and Requirements

The general fill and protective layer soils were obtained from the Bronsons property (Bronsons Borrow Pit) located to the west of the current landfill. Representative samples of general fill and protective layer soils were obtained and tested to verify conformance with specified material requirements in the CQA Documents. The geotechnical tests were performed to confirm that the following requirements were met for the general fill and protective layer soils:

- *General Fill*: classified as SW, SP, SP-SM, or SM in accordance with the Unified Soil Classification System (USCS) per ASTM D 2487 and was relatively free of debris, foreign objects, large rock fragments, organic matter, and other deleterious

materials. In addition, general fill used as liner subbase in Cell 2 was free of sharp materials or materials larger than 0.5 inches.

- *Protective Layer Soils*: classified as SW or SP in accordance with the USCS; had maximum particle size of 0.75 inches; had fines content of less than 5 percent per ASTM D 1140; had carbonate content of less than 5 percent per ASTM D 4373; and were relatively homogeneous soils free of deleterious materials. Regardless of the classification, protective layer soil was required to exhibit a hydraulic conductivity no less than 1.0×10^{-3} cm/sec when tested in accordance with ASTM D 2434. It is noted that soils with higher fines content (SP-SM or SM) were accepted provided that they met the specified hydraulic conductivity requirements.

A description of the geotechnical tests performed on placed materials and results of these tests are presented below.

4.3 CQA Monitoring and Testing

GeoSyntec's CQA personnel monitored the placement and/or compaction of soils as described in Section 3. At times, several earthwork construction operations were conducted simultaneously. When this occurred, the on-site personnel monitored the operations considered most critical to the performance of the landfill liner system. Potentially nonconforming or questionable practices observed by CQA personnel were brought to the attention of the concerned parties for review and correction.

As part of CQA activities, geotechnical testing was performed on the soils used in construction of Cell 2 of the OHDF. Testing was performed at one of the two off-site laboratories (GEC or EGT).

The following geotechnical tests were performed:

- in-situ nuclear moisture/density tests on compacted lifts of general fill (the tests were performed in accordance with ASTM D 2922 for density and ASTM D 3017 for moisture content);
- in-situ density tests using the drive cylinder method (ASTM D 2937) to compare to the density tests results obtained using the nuclear gauge;
- moisture content tests on general fill in accordance with ASTM D 2216;
- standard Proctor compaction tests on general fill in accordance with ASTM D 698;

- grain-size analysis or fines content determination in accordance with ASTM D 422, ASTM C 136, or ASTM D 1140;
- hydraulic conductivity tests on the protective layer soils in accordance with ASTM D 2434; and
- interface friction tests for the interfaces between general fill and GCL and between protective layer soil and primary geocomposite, as discussed in Section 5.

GeoSyntec supplied three nuclear gauges (Troxler Model #3430 Serial #22295, #27418 and #15334) that were used to perform the moisture/density tests. The gauges were calibrated daily prior to use by the "standard count" method. These counts were recorded on standard count logs, which are not included in the certification report but are available for review upon request. The in-situ density tests using the drive cylinder method (ASTM D 2937) were performed periodically and compared with the density test results obtained using the nuclear gauge to ensure that the gauges were functioning properly.

4.4 General Fill

CQA personnel monitored the excavation (from the Bronsons Borrow Pit), placement, and compaction of general fill, which was used to construct the Cell 2 base, intercell berms, 6-inch thick liner subbase, and anchorage of geosynthetics. Earthwork in Cell 2 using general fill consisted of following activities:

- monitoring existing subgrade by CQA personnel to confirm that unsuitable materials were removed;
- proof rolling of subgrade by the contractor to detect soft or loose zones using articulated off-road dump trucks;
- excavating and hauling general fill from, Bronsons Borrow Pit, using tracked excavators and articulated off-road dump trucks, respectively;
- placing and spreading general fill in relatively thin lifts using bulldozers;
- compacting general fill using smooth drum rollers;
- scarifying surface of each compacted lift using tracks of a bulldozer prior to placement and compaction of subsequent lifts; and

- surveying the limits and elevations of the compacted general fill (Record Drawing for the top of the liner subbase layer is included in Appendix C).

General fill was required to be compacted to at least 95 percent of the corresponding standard Proctor (ASTM D 698) maximum dry unit weight. The tests performed on compacted general fill materials are discussed below.

4.4.1 Standard Proctor Tests

Standard Proctor tests were performed to evaluate the percent compaction from the measured in-situ densities of compacted general fill. Standard Proctor tests were required to be performed at a minimum frequency of 1 test per 25,000 cubic yards (cyd) of compacted general fill.

Twelve (12) standard Proctor tests were performed during construction for approximately 120,000 cyd of compacted general fill placed in Cell 2. The actual CQA test frequency of 1 test per 10,000 cyd (approx.) of compacted general fill exceeded the minimum testing frequency required by the CQA Documents. The standard Proctor tests performed during construction are summarized in Table 4-1 and are presented in Figure 4-1. As noted, the maximum dry unit weight varied from 99 to 108 pounds per cubic foot (pcf) and the optimum moisture content varied from 12 to 15 percent.

4.4.2 Density and Percent Compaction

In-situ nuclear moisture/density tests were required to be performed at a frequency of 5 tests per acre per lift for earthwork performed using general fill. If the density test failed to meet the minimum compaction requirements, the contractor reworked and recompacted the area surrounding the failure and the area was retested by CQA personnel. The procedure was repeated until satisfactory moisture/density test results were obtained at each test location.

Approximately 120,000 cyd of general fill was used to construct Cell 2 (base, intercell berms, and 6-inch liner subbase). The in-situ nuclear moisture/density tests performed to evaluate the compaction of general fill in Cell 2 are presented in Appendix A. A total of 824 nuclear moisture/density tests were performed, which correspond to a CQA test frequency of 1 test per 145 cyd (approx.) of compacted general fill. As noted, areas corresponding to the failing test (i.e. 34 tests) were reworked and recompacted by the contractor and retested by the CQA personnel.

4.4.3 Grain Size Analyses and USCS Classification

Grain-size distribution analyses (ASTM D 422) were performed to evaluate the USCS classification (ASTM D 2487) of general fill materials used to construct Cell 2.

Grain size distribution analyses and USCS classification were required to be performed at a minimum frequency of 1 test per 10,000 cyd of compacted general fill.

Seventeen (17) grain-size distribution analyses and USCS classification were performed for approximately 120,000 cyd of compacted general fill used to construct Cell 2. The actual CQA test frequency of 1 test per 7,100 cyd (approx.) of compacted general fill exceeded the minimum testing frequency required by the CQA Documents. The grain-size distribution analyses and USCS classification performed during construction are summarized in Table 4-2. As noted, the general fill materials used to construct Cell 2 classified as SP, SP-SM and SM in accordance with the USCS classification.

4.4.4 Drive Cylinder Tests

In-situ moisture/densities were measured using the drive cylinder method (ASTM D 2937) periodically to verify the moisture/density tests results obtained using the nuclear gauge. A total of 32 moisture/densities were measured using the drive cylinder method for the general fill used to construct Cell 2 and are summarized in Table 4-3. A drive cylinder was collected for approximately every 25 nuclear density tests, performed, which exceeded the minimum testing frequency required by the CQA Documents. As noted, the densities measured using the two methods were in general agreement.

4.4.5 Anchorage of Geosynthetics

GeoSyntec CQA personnel periodically monitored the method of anchorage for the geosynthetic materials along the perimeter berm (on north and east side of Cell 2) and the intercell berms between Cell 2 and future Cell 3 (on south side). Along the west side of Cell 2, each layer of geosynthetics was tied into the respective layer of geosynthetics from Cell 1. The construction sequence for the anchor trenches was as follows:

- a 2-ft deep by 2-ft wide (minimum) trench was excavated approximately 2 feet from the inside crest of perimeter berm and 6 feet from the inside crest of intercell berm;
- the geosynthetic components were then placed in and depending upon the material, across the bottom of the anchor trench and ballasted with sandbags; and
- the anchor trench was backfilled with general fill and compacted.

4.5 Protective Soil Layer

Protective soil was used to cover the geosynthetic components of the liner system in Cell 2. The minimum thickness of the protective soil layer atop the geosynthetic components of the liner system in Cell 2 was 2 feet.

Sandy soils from the Bronsons Borrow Pit were used as protective soil. CQA personnel monitored the placement of the protective soil in Cell 2. The construction sequence of protective soil layer was as follows:

- articulated dump trucks hauled the sandy soils from Bronsons Borrow Pit to Cell 2; and
- the sandy soils were placed and spread using low ground pressure bulldozers.

During placement of the protective soil, CQA personnel monitored the contractor's activities to assure that the risk of damage to the underlying geosynthetics was minimized. CQA personnel also confirmed that at least a 2-ft thick layer of sandy soils was maintained over the geosynthetics where the contractor operated the equipment. A minimum 3-ft thick layer of sandy soils was maintained where the articulated off-road dump trucks operated.

Grain-size distribution analyses (ASTM D 422), soil classification in accordance with USCS (ASTM D 2487), and hydraulic conductivity (ASTM D 2434) tests were performed on samples of protective soil at the off-site geotechnical laboratory EGT. Grain-size distribution analyses (ASTM D 422) and soil classification tests (ASTM D 2487) were to be performed at a minimum frequency of 1 test per 2,000 cyd of in-place protective soil. Hydraulic conductivity tests were to be performed at a minimum frequency of 1 test per 3,000 cyd of in-place protective soil.

A total of 40,500 cyd (approx.) of protective soil was placed in Cell 2. Twenty (20) grain-size distribution analyses (and USCS classification) and Fourteen (14) hydraulic conductivity tests were performed on the protective layer soils placed in Cell 2. The laboratory test results are presented in Table 4-4. The actual CQA test frequencies of 1 test per 2,000 cyd (approx.) for grain-size distribution analyses (and USCS classification) and 1 test per 3,000 cyd (approx.) for hydraulic conductivity, met the minimum testing frequencies required by the CQA Documents. As noted, the measured hydraulic conductivities of protective soil exceeded the minimum hydraulic conductivity of 1.0×10^{-3} cm/sec required by the CQA Documents. It is noted that soils with fines content greater than 5 percent were accepted since the measured hydraulic conductivities exceeded the project requirements.

Table 4-1

STANDARD PROCTOR TEST RESULTS FOR GENERAL FILL USED TO CONSTRUCT CELL 2

SAMPLE ID	SOIL DESCRIPTION	OPTIMUM MOISTURE CONTENT (%)	MAXIMUM DRY DENSITY (pcf)
GF-2-1	Light brown fine sand (SP)	12	99
GF-2-2	Brown fine sand (SP)	13	101
GF-2-3	Brown fine sand with silt (SP-SM)	14	105
GF-2-4	Dark brown fine sand with silt (SM)	14	104
GF-2-5	Brown fine sand with silt (SP-SM)	13	104
GF-2-6	Light brown silty fine sand (SM)	13	107
GF-2-7	Light brown fine sand with silt (SP-SM)	12	108
GF-2-8	Brown fine sand with silt (SP-SM)	15	104
GF-2-9	Light brown fine sand with silt (SP-SM)	15	104
GF-2-10	Light brown fine sand (SP)	13	106
GF-2-11	Dark brown fine sand with silt (SP-SM)	15	104
GF-2-12	Grey fine sand with silt (SP-SM)	14	105
All samples were tested by Geotechnical and Environmental Consultants, Inc. (GEC)			

Table 4-2

**GRAIN SIZE DISTRIBUTION ANALYSES AND USCS CLASSIFICATION RESULTS FOR
GENERAL FILL USED TO CONSTRUCT CELL 2**

		PARTICLE SIZE ANALYSIS					SOIL CLASSIFICATION
TEST STANDARD		ASTM D 422					ASTM D 2847
TESTING FREQUENCY		1 test per 10,000 yd ³					1 test per 10,000 yd ³
TEST RESULTS							
Sample No. ¹	Percent Passing by Weight Through U.S. Standard Sieve					Classification ²	Pass/Fail (P/F)
	No. 10	No. 40	No. 60	No. 100	No. 200		
GF-2-1	100.0	97.1	82.0	30.7	3.7	SP	P
GF-2-2	100.0	97.4	83.9	32.4	4.1	SP	P
GF-2-3	100.0	98.4	87.5	38.9	5.3	SP-SM	P
GF-2-4	100.0	97.8	86.6	41.1	14.8	SM	P
GF-2-5	100.0	97.8	86.9	45.0	8.5	SM	P
GF-2-6	100.0	97.7	88.7	63.9	19.4	SM	P
GF-2-7	100.0	93.6	67.5	16.9	5.4	SP-SM	P
GF-2-8	100.0	98.3	N/A	N/A	6.0	SP-SM	P
GF-2-9	100.0	98.1	N/A	N/A	6.0	SP-SM	P
GF-2-10	100.0	96.8	N/A	N/A	3.7	SP	P
GF-2-11	100.0	97.9	N/A	N/A	6.4	SP-SM	P
GF-2-12	100.0	97.9	N/A	N/A	6.9	SP-SM	P
GF-2-13	100.0	98.1	N/A	N/A	5.6	SP-SM	P
GF-2-14	100.0	98.2	N/A	N/A	7.1	SP-SM	P
GF-2-15	100.0	98.3	N/A	N/A	5.9	SP-SM	P
GF-2-16	100.0	98.1	N/A	N/A	6.4	SP-SM	P
GF-2-17	100.0	98.3	N/A	N/A	6.3	SP-SM	P
Notes: ¹ All samples were tested by Geotechnical and Environmental Consultants, Inc. (GEC). ² General fill material was required to classify as SW, SP, SP-SM, or SM. ³ N/A = not available							

Table 4-3

**COMPARISON BETWEEN DRIVE CYLINDER AND NUCLEAR GAUGE TEST RESULTS
FOR GENERAL FILL USED TO CONSTRUCT CELL 2**

DRIVE CYLINDER			NUCLEAR GAUGE			DIFFERENCE (Drive Cylinder - Nuclear Gauge)	
Test No.	Dry Unit Weight (pcf)	Moisture Content (%)	Test No.	Dry Unit Weight (pcf)	Moisture Content (%)	Dry Unit Weight (pcf)	Moisture Content (%)
	ASTM D 2937	ASTM D 2216		ASTM D 2922	ASTM D 3017		
DR-1	100.5	6.6	DT-25	102.7	7.8	-2.2	-1.2
DR-2	101.3	8.5	DT-50	102.3	8.9	-1.0	-0.4
DR-3	101.5	6.8	DT-75	101.3	6.9	0.2	-0.1
DR-4	102.2	5.4	DT-100	103.6	5.3	-1.4	0.1
DR-5	103.0	12.3	DT-125	104.8	12.5	-1.8	-0.2
DR-6	101.2	4.1	DT-150	101.2	4.8	0.0	-0.7
DR-7	100.1	4.7	DT-175	100.4	5.4	-0.3	-0.7
DR-8	103.7	9.4	DT-201	102.9	10.7	0.8	-1.3
DR-9	101.3	9.9	DT-225	102.8	9.9	-1.5	0.0
DR-10	100.9	9.4	DT-250	100.5	10.6	0.4	-1.2
DR-11	100.7	9.4	DT-275	101.7	10.6	-1.0	-1.2
DR-12	101.8	9.4	DT-300	102.3	9.8	-0.5	-0.4
DR-13	105.1	11.0	DT-325	103.6	11.4	1.5	-0.4
DR-14	100.7	10.6	DT-350	100.2	10.5	0.5	0.1
DR-15	101.8	11.7	DT-375	100.5	11.2	1.3	0.5
DR-16	102.2	10.5	DT-400	103.0	11.0	-0.8	-0.5
DR-17	104.7	5.5	DT-425	103.0	6.6	1.7	-1.1
DR-18	104.1	11.6	DT-450	104.1	11.2	0.0	0.4
DR-19	101.6	12.5	DT-476	100.4	13.4	1.2	-0.9
DR-20	102.4	10.9	DT-500	101.3	12.0	1.1	-1.1
DR-21	107.0	5.7	DT-525	104.1	7.9	2.9	-2.2
DR-22	101.1	12.2	DT-550	101.8	12.1	-0.7	0.1
DR-23	101.1	9.6	DT-575	99.9	9.0	1.2	0.6
DR-24	100.9	9.8	DT-600	99.9	9.0	1.0	0.8
DR-25	100.9	8.8	DT-625	100.8	9.0	0.1	-0.2
DR-26	102.5	9.3	DT-650	102.8	10.0	-0.3	-0.7
DR-27	100.1	7.7	DT-675	100.6	7.7	-0.5	0.0
DR-28	100.0	10.2	DT-700	100.5	9.5	-0.5	0.7
DR-29	104.3	8.2	DT-725	104.1	7.7	0.2	0.5
DR-30	103.9	8.6	DT-750	103.8	8.0	0.1	0.6
DR-31	104.0	6.2	DT-775	102.6	6.1	1.4	0.1
DR-32	99.7	7.5	DT-800	100.6	7.7	-0.9	-0.2

Table 4-4

LABORATORY TEST RESULTS FOR LINER PROTECTIVE LAYER SOILS USED TO CONSTRUCT CELL 2

	PARTICLE SIZE ANALYSIS	SOIL CLASSIFICATION	HYDRAULIC CONDUCTIVITY	
TEST STANDARD	ASTM D 422	ASTM D 2487	ASTM D 2434	
TESTING FREQUENCY	1 test per 2,000 yd ³	1 test per 2,000 yd ³	1 test per 3,000 yd ³	
TEST RESULTS				
Sample ⁴ ID	Percent Passing No. 200 Sieve (%)	Soil Classification ¹	Hydraulic Conductivity ² (cm/sec)	Pass/Fail ³ (P/F)
PC-TP-1A	7.1	SP-SM	1.10E-02	P
PC-TP-1B	7.8	SP-SM		P
PC-TP-2A	3.5	SP	1.10E-02	P
PC-TP-2B	5.5	SP-SM	1.00E-02	P
PC-TP-2C	6.2	SP-SM		P
PC-TP-SLOPE	6.0	SP-SM	4.60E-03	P
PC-2-1	8.7	SP-SM	8.10E-03	P
PC-2-2	2.7	SP	1.70E-02	P
PC-2-3	3.5	SP	1.30E-02	P
PC-2-4	5.5	SP-SM	1.10E-02	P
PC-2-5	7.8	SP-SM	9.60E-03	P
PC-2-6	4.6	SP	9.31E-03	P
Notes: ¹ Protective layer soils were required to classify as SW or SP. ² Required hydraulic conductivity was no less than 1.0×10^{-3} cm/sec. ³ Soil with higher fines content were accepted provided they met the specified hydraulic conductivity requirements. ⁴ "PC" samples were collected from protective soils placed in Cell 2. "PC-TP" samples were collected to identify suitable protective soils in the test pit.				

Table 4-4 (UPDATED)

LABORATORY TEST RESULTS FOR PROTECTIVE SOILS USED TO CONSTRUCT CELL 2

	PARTICLE SIZE ANALYSIS	SOIL CLASSIFICATION	HYDRAULIC CONDUCTIVITY	
TEST STANDARD	ASTM D 422	ASTM D 2487	ASTM D 2434	
TESTING FREQUENCY	1 test per 2,000 yd ³	1 test per 2,000 yd ³	1 test per 3,000 yd ³	
TEST RESULTS				
Sample ⁴ ID	Percent Passing No. 200 Sieve (%)	Soil Classification ¹	Hydraulic Conductivity ² (cm/sec)	Pass/Fail ³ (P/F)
PC-2-1	8.7	SP-SM	8.10E-03	P
PC-2-2	2.7	SP	1.70E-02	P
PC-2-3	3.5	SP	1.30E-02	P
PC-2-4	5.5	SP-SM	1.10E-02	P
PC-2-5	7.8	SP-SM	9.60E-03	P
PC-2-6	4.6	SP	9.31E-03	P
PC-2-7	9.9	SP-SM	6.00E-03	P
PC-2-8	10.1	SP-SM	6.60E-03	P
PC-2-9	7.0	SP-SM	5.90E-03	P
PC-2-10	10.9	SP-SM	6.00E-03	P
PC-2-11	8.5	SP-SM	1.10E-02	P
PC-2-12	8.4	SP-SM	9.30E-03	P
PC-2-13	7.2	SP-SM	9.00E-03	P
PC-2-14	9.1	SP-SM	6.10E-03	P
PC-2-15	11.3	SP-SM	4.20E-03 ⁵	P
PC-2-16	7.3	SP-SM	-	P
PC-2-17	11.1	SP-SM	-	P
PC-2-18	11.0	SP-SM	-	P
PC-2-19	8.3	SP-SM	-	P
PC-2-20	4.6	SP	-	P
Notes: ¹ Protective layer soils were required to classify as SW or SP. ² Required hydraulic conductivity was no less than 1.0×10^{-3} cm/sec. ³ Soil with higher fines content were accepted provided they met the specified hydraulic conductivity requirements. ⁴ All samples were collected from protective soils placed in Cell 2. ⁵ Sample tested was prepared by mixing equal volume of PC-2-15 and PC-2-17 (i.e., soil samples with highest fines content)				

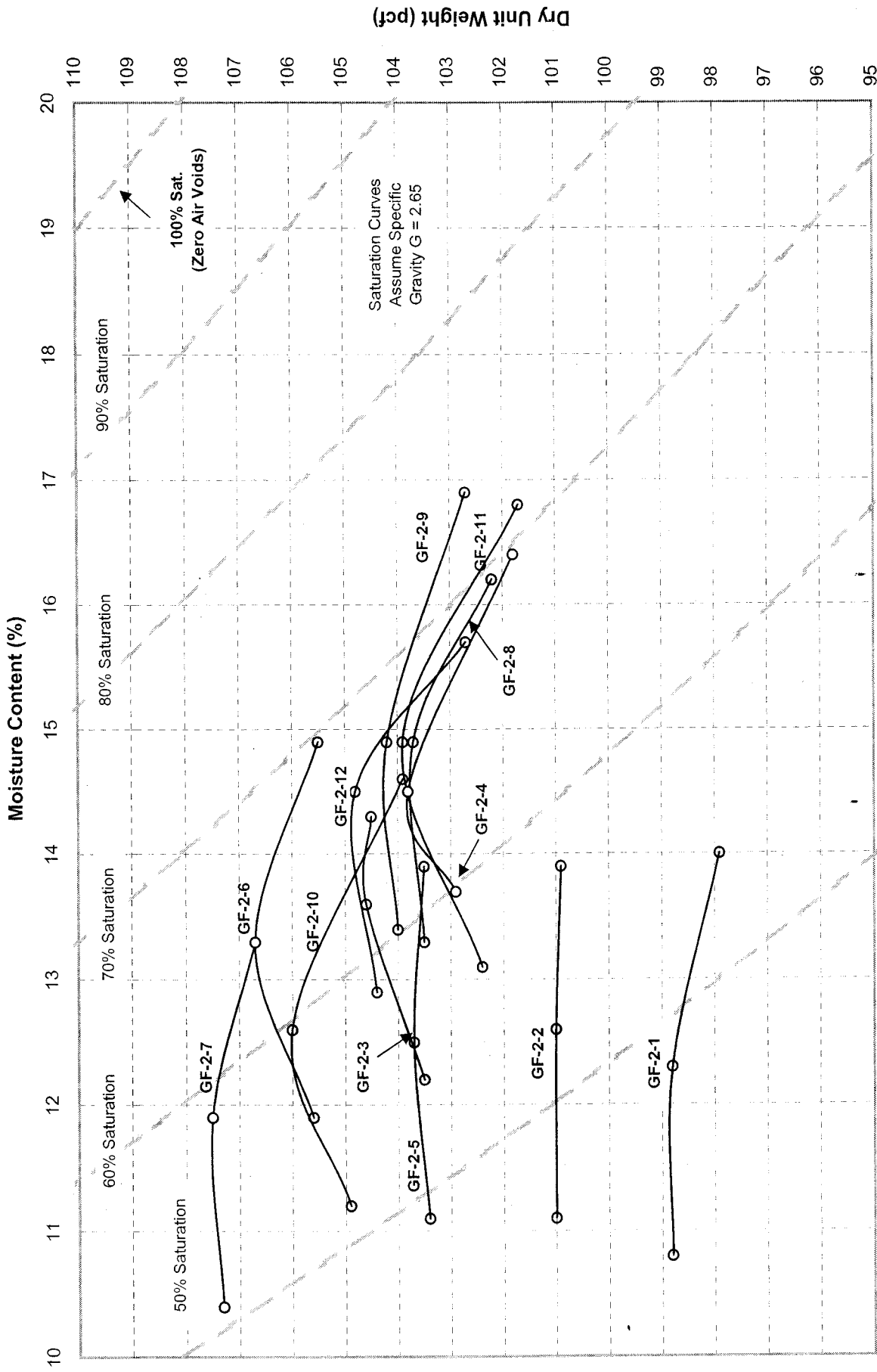


Figure 4-1: Standard Proctor Test Results for General Fill in Cell 2

5. CONSTRUCTION QUALITY ASSURANCE - GEOSYNTHETICS

5.1 General

GeoSyntec monitored the installation of the geosynthetic components of the double composite liner system in Cell 2, as described in Section 2. At times, several liner system installation operations were conducted simultaneously during Cell 2 construction. When this occurred, the on-site CQA personnel monitored the operations that were considered most critical to the performance of the liner system.

5.2 CQA of Geosynthetic Clay Liner

5.2.1 Conformance Testing and Documentation

A geosynthetic clay liner (GCL) was used in construction of the liner systems in Cell 2. Bentomat ST GCL used was manufactured by CETCO Lining Technologies (CETCO), Arlington Heights, Illinois. The GCL conformance samples were collected, from the rolls produced for the project, by TRI/Environmental (TRI) (an independent contractor authorized to collect samples for CQA testing). TRI coordinated with the manufacturer to collect the CQA samples at CETCO's manufacturing plant in Fairmount, Georgia. TRI also performed the CQA conformance testing in accordance with the CQA Documents on the samples of GCL collected.

The MQC certificates and test results and the CQA conformance test results were reviewed by CQA personnel and were found to be in compliance with the CQA Documents. The results of the MQC and CQA conformance tests are summarized in Table 5-1. Table 5-1 also indicates the tests that were conducted, the required test frequencies, and the acceptance criteria in accordance with the CQA Documents.

It is noted that Table 5-1 is organized with respect to the GCL lot numbers and indicates the roll numbers in each lot of GCL that were sampled and tested as part of the MQC and CQA conformance testing. Each sheet of Table 5-1 also presents the total number of rolls (and square footage) of the GCL received from the respective lot number and also the cumulative number of rolls (and square footage) of the GCL received for the project (to evaluate the MQC and CQA test frequencies for each lot and for the project).

A total of 7 CQA conformance samples were tested for approximately 1,307,250 square feet (ft²) of GCL delivered to the site for installation in Cell 2. The actual CQA test frequency of 1 test per 186,750 ft² of GCL exceeded the minimum testing frequency of 1 test per 200,000 ft² required by the CQA Documents. As a minimum, one conformance sample was tested during CQA from each lot of GCL supplied for the project.

The hydraulic conductivity of GCL was tested using deionized water as the permeant fluid during MQC and CQA testing. Comparison studies using deionized water and leachate from the OHDF were performed for the previous two Cells. It was determined that the measured hydraulic conductivity of GCL using leachate as the permeant fluid was less than the measured hydraulic conductivity of GCL using deionized water as the permeant fluid, i.e., it is conservative to measure the hydraulic conductivity of GCL using deionized water.

5.2.2 Field Monitoring Activities

5.2.2.1 Delivery and On-Site Storage

Upon delivery, GCL rolls were unloaded in an area located south of the Cell 2 construction area (i.e., in future Cell 3 footprint), stacked on a 1.5-ft high berm, and covered with a plastic tarps. The rolls were typically transported on site by an off-road forklift equipped with a stinger bar. CQA personnel periodically monitored the installer's delivery, unloading, and storage procedures and observed that the GCL was handled in an appropriate manner. The CQA personnel also compared the roll numbers of the GCL rolls delivered to the manufacturer's bill of lading. An inventory of the rolls delivered for the project was maintained by the CQA personnel and is available upon request. This inventory also includes the rolls that were approved for installation based on MQC and CQA test results and the rolls that were used during construction. Only approved rolls were incorporated into the work.

5.2.2.2 Deployment

Prior to GCL deployment, the installer signed certificates of acceptance for the liner subbase, which are not included in the report but are available upon request. The GCL rolls were lifted using a stinger bar attached to an off-road forklift. The rolls were deployed by inserting a spreader bar attached to low-ground pressure, track-mounted vehicle and unrolled. Panels were re-positioned as necessary using laborers.

CQA personnel monitored the deployment of the GCL rolls. During deployment, the CQA personnel checked for the following:

- manufacturing defects;
- damage that may have occurred during shipment, storage, and handling; and
- damage resulting from installation activities.

If any materials were observed to be damaged, the installer was notified and the damaged materials were either discarded or repaired. CQA personnel observed repair locations to verify conformance with the requirements of the CQA Documents.

CQA personnel also periodically monitored the deployment of the GCL as well as its condition after installation to ensure that the installer followed the following procedures:

- the GCL was unrolled and placed in a manner which kept the GCL in sufficient tension to avoid excessive wrinkling and was securely anchored in the anchor trench or ballasted with sand bags;
- the rolls were deployed with the woven geotextile in contact with the geomembrane;
- adjacent GCL panels were overlapped a minimum of 6 inches along the length of the panels and 12 inches along the width of the panels; and
- granular bentonite was added between overlap along the width of panels and repaired areas;
- measures were taken to keep the GCL free of contamination and protected from premature hydration; and
- geomembrane installation immediately followed installation of the GCL.

Any observed holes or tears in the GCL were repaired by the installer by placing a patch of the same material over the hole or tear and at a distance of at least 1 ft beyond the edges of the hole or tear. Granular bentonite was added around the damaged area prior to overlaying the patch material. In areas where premature hydration of the GCL was detected, the GCL was removed and replaced with new material.

5.3 CQA of Textured Geomembrane

5.3.1 Conformance Testing and Documentation

A 60-mil textured geomembrane was installed as primary and secondary liners in Cell 2. The 60-mil textured geomembrane, MicrospikeTM HDPE, was supplied by Agru America, Georgetown, South Carolina. Conformance samples of textured geomembrane were collected (from the rolls produced for the project) by TRI, which coordinated with the manufacturer to collect the CQA samples at Agru America's manufacturing plant. TRI also performed the CQA conformance testing in accordance with the CQA Documents on the samples of textured geomembrane collected.

The MQC certificates and test results and the CQA conformance test results were reviewed by CQA personnel and were found to be in compliance with the CQA Documents. The results of the MQC and CQA conformance tests are summarized in Tables 5-2A, 5-2B, and 5-2C. Table 5-2A presents the CQA and MQC test results for the textured geomembrane. Table 5-2B presents the MQC test results for the resin used in

the manufacture of the geomembrane lots and welding rods used for the project. Table 5-2C presents MQC geomembrane properties for low temperature brittleness, dimensional stability, and notched constant tensile load. Tables 5-2A, 5-2B, and 5-2C indicate the tests that were conducted, the required test frequencies, and the acceptance criteria in accordance with the CQA Documents.

It is noted that Table 5-2A is organized with respect to the resin lot numbers and indicates the roll numbers from each resin lot that were sampled and tested as part of the MQC and CQA conformance testing. Each sheet of Table 5-2A also presents the total number of rolls (and square footage) of the textured geomembrane received from the respective resin lot number and the cumulative number of rolls (and square footage) of the textured geomembrane received for the project (to evaluate the MQC and CQA test frequencies for each lot and for the project).

A total of fourteen (14) CQA conformance samples were tested for approximately 1,188,180 ft² of textured geomembrane delivered to the site for installation in Cell 2. The actual CQA test frequency of 1 test per 84,870 ft² for the textured geomembrane exceeded the minimum frequency of 1 test per 100,000 ft² required by the CQA Documents. As a minimum, one conformance sample was tested during CQA from each resin lot supplied for the project.

5.3.2 Field Monitoring Activities

5.3.2.1 Delivery and On-Site Storage

Upon delivery to the site, geomembrane rolls were stored in an area located south of the Cell 2 construction area (i.e., future Cell 3 footprint) and stacked on an elevated platform. The rolls were typically transported by an off-road forklift with a spreader bar attachment or using the nylon slings which were attached to each roll. CQA personnel periodically monitored the installer's delivery, unloading, and storage procedures to ensure that the material was handled in an appropriate manner. The CQA personnel also compared the roll numbers of the geomembrane rolls delivered to the manufacturer's bill of lading. An inventory of the rolls delivered for the project was maintained by the CQA personnel and is available upon request. This inventory also includes the rolls that were approved for installation based on MQC and CQA test results and the rolls that were used during construction. Only approved rolls were incorporated into the work.

5.3.2.2 Deployment

The geomembrane rolls were lifted using a spreader bar attached to an off-road forklift. The panels were positioned using laborers assisted by a track-mounted, low-ground pressure, all-terrain vehicle (ATV).

CQA personnel monitored the deployment of each geomembrane panel. During deployment, the CQA personnel checked for the following:

- manufacturing defects;
- damage that may have occurred during shipment, storage, and handling; and
- damage resulting from installation activities, including damage as a consequence of panel placement, seaming operations, or weather.

If any materials were observed to be damaged or deficient, the installer was notified and the damaged materials were either discarded or repaired. CQA personnel observed and documented the repair locations to verify compliance with the CQA Documents. Details of the geomembrane panel placement were recorded by CQA personnel on panel placement logs, which are included in Appendix B of this report.

5.3.2.3 Trial Seams

Prior to production seaming, the installer prepared geomembrane trial seams for each piece of seaming equipment to be used. Additional trial seams were prepared approximately every five hours or when field conditions changed. CQA personnel evaluated the trial seams as follows:

- trial seams were welded under similar conditions as production seaming;
- test strips were cut from the trial seams at random locations with a die press;
- four (4) test strips were tested using a field tensiometer and compared to the passing criteria for the tests, which were as follows:

Fusion

- *Peel tests* - a minimum bonded seam strength of 78 lb/in (inside/outside); and
- *Shear test* - a minimum bonded seam strength of 120 lb/in.

Extrusion

- *Peel test* - a minimum bonded seam strength of 70 lb/in; and
- *Shear test* - a minimum bonded seam strength of 108 lb/in.

If trial welds failed, the machine or welding process was adjusted and a new trial seam was prepared. The new sample was tested to ensure compliance with the above

strength requirements. The procedure was repeated, as needed, until passing results were obtained.

Trial seam samples were not archived. Details of the trial seams, including the trial seam test results, are included in Appendix B of this report.

5.3.2.4 Production Seams

Geomembrane production seaming operations were monitored by CQA personnel. The majority of the geomembrane production seams were fabricated using double-track fusion welders. Seam repairs were made using hand-held extrusion welders. Rub sheets were periodically used during production seaming to provide a clean surface to weld over. During or after fabrication, the geomembrane seams were visually examined for workmanship and continuity. Geomembrane seaming logs are included in Appendix B of this report.

5.3.3 Nondestructive Seam Testing

5.3.3.1 Scope

Nondestructive testing of geomembrane seams was periodically monitored by CQA personnel. All geomembrane seams were nondestructively tested for continuity by the installer using the air pressure procedure for double-track fusion seams and the vacuum-box test procedure for extrusion welded seams. Failed air pressure seams, if applicable, were capped and then retested using vacuum-box test methods after determining the failed seam length. Leaks identified using the vacuum-box method were repaired and retested as described in Section 5.3.5.

5.3.3.2 Air Pressure Testing

Accessible double-track fusion seams were nondestructively tested using the air pressure test. The procedure used by the installer for air pressure testing was as follows:

- visually observe the integrity of the annulus of the section of seam being tested and isolating the section by sealing the ends using heat and pressure;
- insert the needle of a pressure test apparatus into the annulus at one end of the seam;
- inflate the annulus to a gauge pressure between 25-30 psi with an air pump and maintain the gauge pressure for at least 5 minutes;
- repair faulty area in accordance with Section 5.3.5 if the pressure loss exceeds 3 psi or if the pressure does not stabilize; and

- confirm airflow through the entire annulus by releasing the air from the seam at the opposite end from where the needle was inserted.

5.3.3.3 Vacuum-Box Testing

The vacuum-box was used by the installer to nondestructively test extrusion seams and repairs. The procedure used by the installer for vacuum testing was as follows:

- wet a strip of seam with a soapy solution;
- place the vacuum-box assembly over the wetted area, close the bleed valve and open the vacuum valve;
- force the box onto the sheet until a vacuum is observed;
- examine the seam through the viewing window for a period of approximately 20 seconds for the occurrence of air bubbles;
- remove the assembly and continue the process over the entire length of the seam; and
- record the location of any leaks.

Nondestructive seam test results for primary and secondary liner in Cell 4 are presented in Appendix B. If nondestructive testing indicated that repairs were necessary, repairs were made in accordance with procedures presented in Section 5.3.5. All repairs were tested using the vacuum-box test procedure.

5.3.4 **Destructive Seam Sample Testing**

5.3.4.1 Scope

In accordance with the CQA Documents, CQA personnel identified and collected geomembrane seam samples for destructive testing. The samples were tested by the off-site geosynthetics laboratory TRI.

For a destructive seam sample to be considered as passing, the seam strength criteria described in Section 5.3.2.3 had to be met for at least four out of the five test specimens obtained from the sample. In addition, if one non-FTB failure was observed, the average of the five test specimens had to meet the specified strength criterion.

5.3.4.2 Sampling Procedures

Prior to the removal of the full seam sample, two geomembrane test strips were taken by the installer from either end of the proposed destructive sample. Each strip was peel-tested in the field. If the peel samples exhibited passing results, the adjacent destructive seam sample was removed and tested. At each destructive seam sample location, a test sample measuring approximately 12 in. across the seam and 42 in. along the seam was obtained. The sample was divided into three pieces and distributed to: (i) the off-site geosynthetics laboratory for testing, (ii) the installer, and (iii) the owner as an archive sample.

5.3.4.3 Test Results

Off-site laboratory testing of geomembrane seam samples was performed in accordance with the CQA Documents. At the off-site geosynthetics laboratory, five 1-in wide test specimens were removed from the destructive seam sample using a die press. On a calibrated tensiometer, five test specimens were peel-tested for adhesion strength. For fusion seams, peel tests were performed on both the bottom (inside track) and top (outside track) edges. Additionally, five specimens were tested for shear strength. The seam acceptance/rejection criteria described in Sections 5.3.2.3 and 5.3.4.1 were used to evaluate the destructive seam samples.

The destructive seam test results for primary and secondary liners installed in Cell 2 are presented in Tables 5-3A and 5-3B, respectively. For primary liner installed in Cell 2, fifty nine (59) destructive seam samples were tested for a total seam length of 27,577 ft (approx.). This corresponds to an approximate sample frequency of 1 per 467 lf of seam. For secondary liner installed in Cell 2, fifty nine (59) destructive seam samples were tested for a total seam length of 28,248 ft (approx.). This corresponds to an approximate sample frequency of 1 per 479 lf of seam. The actual destructive seam test frequencies exceeded the minimum frequency of 1 per 500 lf of production seams required by the CQA Documents.

As part of destructive seam testing of geomembranes during CQA, a total of 118 destructive seam samples were tested. All liner seam samples tested destructively during construction of Cell 2, except one (DSS34) met the strength criteria noted in Section 5.3.2.3. The failing destructive seam sample was isolated by tracking the seam welded before and after the sample with two passing destructive samples. The seam between the passing destructive samples was capped in accordance with Section 5.3.5.

5.3.5 **Geomembrane Repairs**

The repair procedures presented in this subsection were used by the installer to patch holes and tears, spot-extrude impact damage or other minor defects, and for grinding and

extrusion welding small sections of failed fusion seams (if the exposed edge was accessible). In the cases where patches or caps were used to repair the damaged geomembrane (i.e., small holes, tears, or on seams which failed nondestructive or destructive testing), an approximately 12-in. wide capping strip was used.

During the repair or panel tie-in operations, the following procedures were implemented:

- technicians and seaming equipment used were required to pass trial welds;
- patches or caps extended at least 6 in. beyond the edge of the defect and all corners were rounded; and
- repairs were tested using vacuum box and visually observed for continuity.

Repair summary logs prepared by GeoSyntec during CQA activities are included in Appendix B of this report. Record drawings illustrating layout of panels, location of seams, destructive samples, and repairs are included in Appendix C.

5.4 CQA of Primary Geocomposite

5.4.1 Conformance Testing and Documentation

A tri-planar geocomposite was used as the primary drainage geocomposite in the double composite liner system in Cell 2. The primary geocomposite used was Tendrain 7100-2 manufactured by the Tenax Corporation (Tenax), Baltimore, Maryland. The primary geocomposite conformance samples were collected by TRI, which coordinated with the manufacturer to collect the CQA samples at the Tenax's manufacturing plants in Evergreen, Alabama and Baltimore, Maryland. TRI also performed the CQA conformance testing on the samples of primary geocomposite collected.

The MQC certificates and test results and the CQA conformance test results were reviewed by CQA personnel and were found to be in compliance with the CQA Documents. The results of the MQC and CQA conformance tests for 251 rolls (607,000 ft²) of primary geocomposite are summarized in Tables 5-4A, 5-4B, and 5-4C. Table 5-4A presents the CQA and MQC test results for the primary geocomposite rolls produced for the project. Table 5-4B presents the MQC test results for the geotextile rolls used to manufacture the primary geocomposite rolls produced for the project. Table 5-4C presents the MQC test results for the geonet rolls used to manufacture the primary geocomposite rolls for the project.

Table 5-4A presents the CQA and MQC test results for the primary geocomposite rolls and CQA test results for the geotextile component of the primary geocomposite.

Table 5-4A also indicates the tests conducted, the required test frequencies, and the acceptance criteria in accordance with the CQA Documents. A total of 4 CQA conformance samples were tested for 547,800 ft² of primary geocomposite approved for installation in Cell 2. The actual CQA test frequency of 1 test per 182,600 ft² (approx.) of the primary geocomposite exceeded the minimum frequency of 1 test per 200,000 ft² required by the CQA Documents. As noted in Table 5-4A, a minimum of one conformance sample was tested during CQA from each geocomposite lot.

It is noted that during CQA and MQC testing, the transmissivity of the primary geocomposite was measured under compressive stresses of 500 psf and 13,500 psf for 100 hours. The tests were performed with the primary geocomposite sandwiched between 60-mil textured geomembrane and the soil actually used as part of the protective soil layer. The transmissivity of the primary geocomposite reported in Table 5-4A is the minimum transmissivity measured during the 100-hour test.

Table 5-4B presents the MQC test results for the geotextile component of the primary geocomposite rolls approved for the project. Several rolls of primary geocomposite were manufactured from the same roll of geotextile. To simplify the tracking and review of the geotextile component of the primary geocomposite, GeoSyntec requested MQC certifications for the entire lot of geotextile used to manufacture most of the primary geocomposite for the project. This allowed GeoSyntec to approve the entire geotextile lot without having to track what specific rolls were actually used. Approximately 1,095,600 ft² of geotextile was used to manufacture the primary geocomposite rolls for the project out of a total of approximately 4,211,200 ft² of geotextile produced from the one lot. As part of the MQC testing, fifty five (55) geotextile rolls were tested for mass per unit area, grab strength, trapezoidal tear strength, and puncture strength. Apparent opening size, burst strength and permittivity tests were performed on 28 geotextile samples. The approximate MQC test frequency of 1 test per 76,600 ft² (or 150,400 ft²) for the geotextile component of the primary geocomposite meet the minimum frequency of 1 test per 100,000 ft² (or 250,000 ft²) required by the CQA Documents for the respective tests.

Table 5-4C presents the MQC test results for the geonet component of the primary geocomposite rolls approved for the project. Several rolls of primary geocomposite were manufactured from the same roll of geonet. Fifty three (53) geonet rolls were tested for 1,069,250 ft² of geonet used to manufacture the primary geocomposite for the project. The MQC test frequency of 1 test per 20,175 ft² (approx.) for the geonet component of the primary geocomposite rolls exceeded the minimum frequency of 1 test per 100,000 ft² required by the CQA Documents.

5.4.2 Field Monitoring Activities

5.4.2.1 Delivery and On-Site Storage

Upon delivery to the site, primary geocomposite rolls were stored in an area located south of the Cell 2 construction area (i.e., future Cell 3 footprint) and stacked on an elevated platform. The rolls were typically transported by an off-road forklift. CQA personnel periodically monitored the installer's delivery, unloading, and storage procedures to ensure that the material was handled in an appropriate manner. The CQA personnel also compared the roll numbers of the primary geocomposite rolls delivered to the manufacturer's bill of lading. An inventory of the rolls delivered for the project was maintained by the CQA personnel and is available upon request. This inventory also includes the rolls that were approved for installation based on MQC and CQA test results and the rolls that were used during construction. Only approved rolls were incorporated into the work.

5.4.2.2 Deployment

CQA personnel monitored the deployment of the primary geocomposite for the following:

- manufacturing defects;
- damage that may have occurred during shipment, storage, and handling; and
- damage resulting from installation activities.

If the materials were observed to be damaged, the installer was notified and the damaged materials were either discarded or repaired. CQA personnel observed repair locations to verify conformance with the CQA Documents.

CQA personnel periodically monitored the deployment of the primary geocomposite, as well as its condition after installation, to confirm that the installer took measures to:

- securely anchor the geocomposite in the anchor trench or ballast it with sand bags;
- unroll the geocomposite down the slope (i.e., rolls were aligned perpendicular to the slope contours) in a manner that kept the panel in sufficient tension to avoid excessive wrinkling;
- avoid entrapment of dust, stones, or other objects that would damage or clog the geocomposite;

- avoid damaging the underlying geomembrane during deployment;
- overlap the bottom geotextile edges;
- secure the geonet component of adjacent geocomposite panels with nylon fasteners, installed on a maximum 5-ft spacing laterally and at 1-ft spacing on end seams; and
- overlap and continuously sew the upper geotextile edges.

Any observed holes in the geotextile component of the primary geocomposite were repaired by placing a patch of non-woven geotextile over the hole that extended at least one foot beyond the edge of the hole. These patches were continuously thermally bonded to the undamaged portion of the geocomposite. This method was also used along the tie-in at the toe of the slope and along trimmed panels. Any observed holes or tears in the geonet component of the composite were repaired by the installer by placing a patch of the same material over or under the hole or tear, at least 2-ft beyond the edges of the hole or tear. These patches were secured using nylon fasteners, followed by thermal bonding of the uppermost geotextile of the patch to the undamaged portion of the geocomposite.

5.5 CQA of Secondary Geocomposite

5.5.1 Conformance Testing and Documentation

A bi-planar geocomposite was used as secondary drainage geocomposite in the double composite liner system in Cell 2. The secondary geocomposite used was Transnet 270-2-8 geocomposite manufactured by SKAPS Industries in Commerce, Georgia. The secondary geocomposite conformance samples were collected (from the rolls produced for the project) by TRI, which coordinated with the manufacturer to collect the CQA samples at the SKAPS' manufacturing plant in Commerce, Georgia. TRI also performed the CQA conformance testing on the samples of the secondary geocomposite collected.

The MQC certificates and test results and the CQA conformance test results were reviewed by CQA personnel and were found to be in compliance with the CQA Documents. The results of the MQC and CQA conformance tests results for 216 rolls (600,000 ft²) are summarized in Tables 5-5A, 5-5B, and 5-5C. Table 5-5A presents the CQA and MQC test results for the secondary geocomposite rolls produced for the project. Table 5-5B presents the MQC test results for the geotextile rolls used to manufacture the secondary geocomposite rolls for the project. Table 5-5C presents the MQC test results for the geonet rolls used to manufacture the secondary geocomposite rolls for the project.

Table 5-5A presents the CQA and MQC test results for the secondary geocomposite rolls and CQA test results for the geotextile component of the secondary geocomposite.

It includes the tests conducted, required test frequencies, and acceptance criteria in accordance with the CQA Documents. A total of 3 CQA conformance samples were tested for approximately 600,000 ft² of secondary geocomposite delivered to the site for installation in Cell 2. The actual CQA test frequency of 1 test per 200,000 ft² (approx.) of the secondary geocomposite meets the minimum frequency of 1 test per 200,000 ft² required by the CQA Documents. As noted in Table 5-5A, all the geonet used in the manufacture of the secondary geocomposite belonged to a single lot.

It is noted that during CQA and MQC testing, the transmissivity of the secondary geocomposite was measured under compressive stresses of 500 psf and 13,500 psf for 100 hours. The tests were performed with the secondary geocomposite sandwiched between a GCL and a 60-mil textured geomembrane. The transmissivity of the secondary geocomposite reported in Table 5-5A is the minimum transmissivity measured during the 100-hour test.

Table 5-5B presents the MQC test results for the geotextile component of the secondary geocomposite rolls approved for the project. Several rolls of secondary geocomposite were manufactured from the same roll of geotextile. Fourteen (14) geotextile rolls were tested for approximately 1,200,000 ft² of geotextile used to manufacture the secondary geocomposite rolls for the project. The MQC test frequency of 1 test per 85,700 ft² (approx.) for the geotextile component of the secondary geocomposite exceeded the minimum frequency of 1 test per 100,000 ft² required by the CQA Documents.

Table 5-5C presents the MQC test results for the geonet component of the secondary geocomposite rolls approved for the project. Several rolls of secondary geocomposite were manufactured from the same roll of geonet. Twenty two (22) geonet rolls were tested for 604,800 ft² of geonet used to manufacture the secondary geocomposite rolls delivered for the project. The MQC test frequency of 1 test per 27,500 ft² (approx.) for the geonet component of the secondary geocomposite exceeded the minimum frequency of 1 test per 100,000 ft² required by the CQA Documents.

5.5.2 Field Monitoring Activities

5.5.2.1 Delivery and On-Site Storage

Upon delivery to the site, secondary geocomposite rolls were stored in an area located south of the Cell 2 construction area (i.e., future Cell 3 footprint) and stacked on an elevated platform. The rolls were typically transported by an off-road forklift. CQA personnel periodically monitored the installer's delivery, unloading, and storage procedures to ensure that the material was handled in an appropriate manner. The CQA personnel also compared the roll numbers of the secondary geocomposite rolls delivered

to the manufacturer's bill of lading. An inventory of the rolls delivered for the project was maintained by the CQA personnel and is available upon request. This inventory also includes the rolls that were approved for installation based on MQC and CQA test results and the rolls that were used during construction of Cell 2. Only approved rolls were incorporated into the work.

5.5.2.2 Deployment

CQA personnel monitored the deployment of the primary geocomposite for the following:

- manufacturing defects;
- damage that may have occurred during shipment, storage, and handling; and
- damage resulting from installation activities.

If the materials were observed to be damaged, the installer was notified and the damaged materials were either discarded or repaired. CQA personnel observed repair locations to verify conformance with the CQA Documents.

CQA personnel periodically monitored the deployment of the secondary geocomposite, as well as its condition after installation, to confirm that the installer took measures to:

- securely anchor the geocomposite in the anchor trench or ballast it with sand bags;
- unroll the geocomposite down the slope (i.e., rolls were aligned perpendicular to the slope contours) in a manner that kept the panel in sufficient tension to avoid excessive wrinkling;
- avoid entrapment of dust, stones, or other objects that would damage or clog the geocomposite;
- avoid damaging the underlying geomembrane during deployment;
- overlap the bottom geotextile edges;
- secure the geonet component of adjacent geocomposite panels with nylon fasteners, installed on a maximum 5-ft spacing laterally and at 1-ft spacing on end seams; and
- overlap and continuously sew the upper geotextile edges.

Any observed holes in the geotextile component of the secondary geocomposite were repaired by placing a patch of non-woven geotextile over the hole that extended at least one foot beyond the edge of the hole. These patches were continuously thermally bonded to the undamaged portion of the geocomposite. This method was also used along the tie-in at the toe of the slope and along trimmed panels. Any observed holes or tears in the geonet component of the composite were repaired by the installer by placing a patch of the same material over or under the hole or tear, at least 2-ft beyond the edges of the hole or tear. These patches were secured using nylon fasteners, followed by thermal bonding of the uppermost geotextile of the patch to the undamaged portion of the geocomposite.

5.6 CQA of Non-Woven Geotextile

5.6.1 Conformance Testing and Documentation

A non-woven geotextile was used as filter fabric to surround the aggregate in the leachate collection system and as a separator in the leachate sump in Cell 2. The 8-oz/yd², needle-punched, non-woven geotextile (GT-180) was manufactured by SKAPS Industries in Commerce, Georgia. The CQA conformance samples for the non-woven geotextile were collected by GeoSyntec on-site and shipped to TRI. TRI performed the CQA conformance testing on the samples of the non-woven geotextile collected.

The MQC certificates and test results and the CQA conformance test results were reviewed by CQA personnel and were found to be in compliance with the CQA Documents. The results of the MQC and CQA conformance tests are summarized in Table 5-6. Table 5-6 also indicates the tests that were conducted, the required test frequencies, and the acceptance criteria in accordance with the CQA Documents.

A CQA conformance samples was tested for approximately 31,500 ft² of the non-woven geotextile delivered to the site for installation in Cell 2. The actual CQA test frequency of 1 test per 31,500 ft² of non-woven geotextile exceeded the minimum testing frequency of 1 test per 100,000 ft² required by the CQA Documents.

5.6.2 Field Monitoring Activities

5.6.2.1 Delivery and On-Site Storage

Upon delivery to the site, non-woven geotextile rolls were stored in an area located south of the Cell 2 construction area (i.e., future Cell 3 footprint) and stacked on an elevated platform. The rolls were typically transported by an off-road forklift. CQA personnel periodically monitored the installer's delivery, unloading, and storage procedures to ensure that the material was handled in an appropriate manner.

5.6.2.2 Deployment

CQA personnel monitored the deployment of the non-woven geotextile rolls for manufacturing defects; damage that may have occurred during shipment, storage, and handling; and damage resulting from installation activities. If any materials were observed to be damaged, the installer was notified and the damaged materials were either discarded or repaired. CQA personnel observed repair locations to verify conformance with the requirements of the CQA Documents.

After deployment of the geotextile, CQA personnel observed that the installer overlapped geotextile panels end-to-end a minimum of 24-in. and either heat tacked the geotextile or continuously sewed the 6-in overlap.

5.7 Interface Friction Testing

As discussed in Section 2, the liner system in Cell 2 consists (from top to bottom) of the protective soil layer, primary geocomposite, primary liner, primary GCL, secondary geocomposite, secondary liner, secondary GCL and prepared subbase. Tests were performed in accordance with the CQA Documents to evaluate the interface shear strength for the various components of the liner system and the internal strength of the GCL. All tests for interface shear strength and the internal strength of the GCL were performed by TRI.

The interface shear and the internal strength tests were performed as part of CQA and MQC testing. The MQC and CQA tests were performed using samples of geosynthetics collected from rolls that were actually installed in Cell 2. The soils for the protective soil layer and liner subbase were obtained from the Bronsons Borrow Pit and were similar to the sandy soils used in construction. The following rolls of geosynthetics were used for the CQA interface shear and the internal strength tests:

- GCL – Roll #13993 and #14145 (Lot #'s 200551FA and 200552FA, respectively);
- Textured geomembrane – Roll #102334.06 and #102684.06 (Lot #'s MM193226 and MM193223, respectively);
- Tri-Planar geocomposite – Roll #6500495 and #6500475 (Lot #65004); and
- Bi-Planar geocomposite – Roll #1867030 and #1867175 (Lot #1867).

The 6 different interfaces between the various components of the liner system and the internal strength of the GCL were tested at normal stresses of 5,000, 10,000, and 15,000 psf. Peak (at small displacement) and residual (at large displacements) shear strengths were measured at each normal stress. The interface shear tests were conducted under wetted/saturated conditions. GCL was soaked and consolidated prior to testing. The following liner system interfaces were tested (from top to bottom):

- (1) Protective soil layer / Tri-planar geocomposite;
- (2) Tri-planar geocomposite / Textured geomembrane;
- (3) Textured geomembrane / GCL (woven side);
- (4) GCL (non-woven side) / Bi-planar geocomposite;
- (5) Bi-planar geocomposite / Textured geomembrane;
- (6) GCL (non-woven side) / Subbase soil; and
- (7) Internal strength of the GCL.

The minimum shear strengths required by the CQA Documents are presented in Table 5-7A. The measured peak and residual shear strengths for all the CQA and MQC tests performed are summarized in Table 5-7B. Figures 5-1 and 5-2 present the peak and residual shear strengths, respectively, for CQA interface shear and the internal strength tests performed. As noted, the measured peak and residual shear strengths exceeded the minimum specification requirements.

Table 5-1

CQA AND MQC TEST RESULTS FOR GEOSYNTHETIC CLAY LINER (CETCO)
LOT NO. 200551FA

	MANUFACTURING QUALITY CONTROL (MQC)						
	CONSTRUCTION QUALITY ASSURANCE (CQA)						
PROPERTY	Hydraulic Conductivity (cm/s)	Bentonite Content (lb/ft ²)	Grab Strength (lb)	Peel Strength (lb)	Bentonite Free Swell (ml)	Bentonite Moisture Content (%)	Hydraulic Conductivity (cm/s)
TEST STANDARD	ASTM D 5887	ASTM D 5993	ASTM D 4632	ASTM D 4632	ASTM D 5890	ASTM D 2216	ASTM D 5887
PROJECT SPECS.	≤ 5.0x10 ⁻⁹	≥ 0.75	≥ 150	≥ 15	≥ 24	≤ 25	≤ 5.0x10 ⁻⁹
TESTING FREQUENCY	1 per 200,000 ft ² (2)		1 per 40,000 ft ² (2)		1 per 50 ton (1, 2)		1 per 100,000 ft ² (2)

ROLL NUMBER	CQA SAMPLE ID	TEST RESULTS							PASS/FAIL (P/F)	
									CQA	MQC
13911		1.7×10^{-9}	0.83	314.1	31.0	32.0	9.1	1.03×10^{-9}	P	P
13926			0.81	314.1	26.3	32.0	9.1			P
13941			0.86	297.4	27.1	30.0	9.1			P
13960			0.83	297.4	26.2	30.0	9.1	1.39×10^{-9}		P
13976			0.84	297.4	59.3	30.0	9.1			P
13991			0.86	297.4	37.1	30.0	9.1			P
14007		2.2×10^{-9}	0.84	297.4	26.3	30.0	9.1	1.26×10^{-9}	P	P
14027			0.83	266.4	20.6	28.0	8.4			P
14037			0.88	266.4	20.8	28.0	8.4			P
14051			0.83	266.4	19.6	26.0	11.6	1.74×10^{-9}		P
Notes: 1 Manufacturer's testing frequency was accepted for these properties. 2 A minimum of 1 test per lot was required.										
Average Roll Area (135 ft x 15 ft):		2,250	ft ²							
No. of Rolls in Lot:		149								
Area in Lot:		335,250	ft ²							
		CUMULATIVE NUMBER OF ROLLS:		149	SHEET NO.		1	of	2	
		CUMULATIVE AREA:		335,250			335,250	ft ²		

Table 5-1 (continued)
CQA AND MQC TEST RESULTS FOR GEOSYNTHETIC CLAY LINER (CETCO)
LOT NO. 200552FA

CONSTRUCTION QUALITY ASSURANCE (CQA)		MANUFACTURING QUALITY CONTROL (MQC)					
PROPERTY	Hydraulic Conductivity (cm/s)	Bentonite Content (lb/ft ²)	Grab Strength (lb)	Peel Strength (lb)	Bentonite Free Swell (ml)	Bentonite Moisture Content (%)	Hydraulic Conductivity (cm/s)
TEST STANDARD	ASTM D 5887	ASTM D 5993	ASTM D 4632	ASTM D 4632	ASTM D 5890	ASTM D 2216	ASTM D 5887
PROJECT SPECS.	≤ 5.0x10 ⁻⁹	≥ 0.75	≥ 150	≥ 15	≥ 24	≤ 25	≤ 5.0x10 ⁻⁹
TESTING FREQUENCY	1 per 200,000 ft ² (2)		1 per 40,000 ft ² (2)		1 per 50 ton (1, 2)		1 per 100,000 ft ² (2)
TEST RESULTS							
ROLL NUMBER	CQA SAMPLE ID						
14067		0.86	199.0	42.6	26.0	11.6	P
14083		0.86	199.0	27.7	26.0	11.6	P
14098	14098	0.83	199.0	19.5	26.0	11.6	1.31x10 ⁻⁹
14113		0.82	199.0	20.6	26.0	11.6	P
14132		0.83	199.0	44.6	26.0	11.6	P
14146		0.77	225.4	21.6	26.0	11.6	1.16x10 ⁻⁹
14161		0.81	225.4	19.4	26.0	11.6	P
14177		0.90	225.4	26.0	30.0	8.9	P
14192	14192	0.91	197.2	37.4	30.0	8.9	9.15x10 ⁻¹⁰
14207		0.92	197.2	32.5	30.0	8.9	P
14223		0.87	197.2	21.0	30.0	8.9	P
14238		0.85	197.2	20.8	30.0	8.9	1.56x10 ⁻⁹
14253		0.88	197.2	19.6	30.0	8.9	P
14269		0.87	177.1	51.4	28.0	8.3	P
14283	14283	0.86	177.1	45.2	29.0	8.6	1.16x10 ⁻⁹
14298		0.88	177.1	30.2	29.0	8.6	P
14313		0.86	177.1	24.5	29.0	8.6	P
14330		0.83	177.1	24.0	28.0	8.3	1.38x10 ⁻⁹
14346		0.88	196.7	53.5	28.0	8.3	P
14361		0.88	196.7	33.3	28.0	8.3	P
14378	14378	0.80	239.3	19.2	28.0	10.4	1.05x10 ⁻⁹
14393		0.86	239.3	19.7	28.0	10.4	P
14408		0.81	239.3	22.5	28.0	10.4	P
14424		0.82	239.3	37.7	28.0	10.4	1.07x10 ⁻⁹
14437		0.82	239.3	29.1	28.0	10.4	P
14468	14468						1.33x10 ⁻⁹
14498		0.77	246.4	20.9	28.0	10.8	P
14512		0.81	246.4	59.1	28.0	10.8	1.47x10 ⁻⁹

Notes:
 1 Manufacturer's testing frequency was accepted for these properties.
 2 A minimum of 1 test per lot was required.

Average Roll Area (135 ft x 15 ft):	2,250	ft ²	SHEET NO.	2	of	2
No. of Rolls in Lot:	432		CUMULATIVE NUMBER OF ROLLS:	581		
Area in Lot:	972,000	ft ²	CUMULATIVE AREA:	1,307,250		ft ²

Table 5-2A

CQA AND MQC TEST RESULTS FOR 60-mil TEXTURED GEOMEMBRANE (AGRU AMERICA)
RESIN LOT NO. MM192761

CONSTRUCTION QUALITY ASSURANCE (CQA)										MANUFACTURING QUALITY CONTROL (MQC)										
PROPERTY	Thickness (mil)	Density (g/cm ³)	Carbon Black Content (%)	Carbon Black Dispersion	Yield Strength ² (lb/in)	Break Strength ² (lb/in)	Yield Elongation ² (%)	Break Elongation ² (%)		Thickness ¹ (mil)	Density (g/cm ³)	Carbon Black Content (%)	Carbon Black Dispersion	Yield Strength ² (psi)	Break Strength ² (psi)	Yield Elongation ² (%)	Break Elongation ² (%)	Tear Resistance ² (lb)	Puncture Resistance (lb)	
TEST STANDARD	ASTM D 5994	ASTM D 1505	ASTM D 1603	ASTM D 5596	ASTM D 6693	ASTM D 6693	ASTM D 6693	ASTM D 6693		ASTM D 5994	ASTM D 1505	ASTM D 1603	ASTM D 5596	ASTM D 6693	ASTM D 6693	ASTM D 6693	ASTM D 6693	ASTM D 1004	ASTM D 4833	
PROJECT SPECS.	≥ 60 / 54 ⁵	≥ 0.94	2 to 3	See Note 3	≥ 130	≥ 72	≥ 12	≥ 100		≥ 60 / 54 ⁽⁶⁾	≥ 0.94	2 to 3	See Note 3	≥ 2170 (130 ppi)	≥ 1200 (72 ppi)	≥ 12	≥ 100	≥ 40	≥ 80	
TESTING FREQUENCY	1 per 100,000 ft ² 4										1 per 50,000 ft ² 4									

ROLL NUMBER	CQA SAMPLE ID	TEST RESULTS										TEST RESULTS										PASS/FAIL (P/F)	
		70/64	0.944	2.27	10	153	166	16	451	62/56	0.944	2.20	10	2342	2873	17	488	52	143	CQA	MQC		
344457	E2256-29-01																						
Notes:																							
1 Thickness was measured for every roll.																							
2 Minimum property value in machine direction (MD) and transverse direction (TD).																							
3 Project requirements for carbon black dispersion are: 8 of 10 in Category 1 or 2 and all in Category 1, 2, or 3. Results are for Category 1 or 2.																							
4 A minimum of 1 test per lot was required.																							
5 Average / Minimum thickness.																							
Average Roll Area (410 ft x 23 ft):		9,430 ft ²																					
No. of Rolls in Lot:		5																					
Area in Lot:		47,150 ft ²																					
		SHEET NO. 1 OF 4																		CUMULATIVE NUMBER OF ROLLS: 5			
																				CUMULATIVE AREA: 47,150 ft ²			

Table 5-2A (continued)

CQA AND MQC TEST RESULTS FOR 60-mil TEXTURED GEOMEMBRANE (AGRU AMERICA)
RESIN LOT NO. MM193221

CONSTRUCTION QUALITY ASSURANCE (CQA)										MANUFACTURING QUALITY CONTROL (MQC)									
PROPERTY	Thickness (mil)	Density (g/cm ³)	Carbon Black Content (%)	Carbon Black Dispersion	Yield Strength ² (lb/in)	Break Strength ² (lb/in)	Yield Elongation ² (%)	Break Elongation ² (%)	Thickness ¹ (mil)	Density (g/cm ³)	Carbon Black Content (%)	Carbon Black Dispersion	Yield Strength ² (psi)	Break Strength ² (psi)	Yield Elongation ² (%)	Break Elongation ² (%)	Tear Resistance ² (lb)	Puncture Resistance (lb)	
TEST STANDARD	ASTM D 5994	ASTM D 1505	ASTM D 1603	ASTM D 5596	ASTM D 6693	ASTM D 6693	ASTM D 6693	ASTM D 6693	ASTM D 5994	ASTM D 1505	ASTM D 1603	ASTM D 5596	ASTM D 6693	ASTM D 6693	ASTM D 6693	ASTM D 6693	ASTM D 1004	ASTM D 4833	
PROJECT SPECS.	≥ 60 / 54 ⁵	≥ 0.94	2 to 3	See Note 3	≥ 130	≥ 72	≥ 12	≥ 100	≥ 60 / 54 ⁽⁶⁾	≥ 0.94	2 to 3	See Note 3	≥ 2170 (130 ppi)	≥ 1200 (72 ppi)	≥ 12	≥ 100	≥ 40	≥ 80	
TESTING FREQUENCY	1 per 100,000 ft ² 4										1 per 50,000 ft ² 4								

ROLL NUMBER	CQA SAMPLE ID	TEST RESULTS										TEST RESULTS										PASS/FAIL (P/F)	
																						CQA	MQC
103349											63/56	0.946	2.65	10	2529	3194	17	531	54	142	P		
103351	E2251-88-03	67/62	0.945	2.77	10	158	189	16	463	62/56	0.946	2.58	10	2535	3341	17	535	54	139	P			
103456										63/57	0.945	2.62	10	2461	3250	18	543	53	99	p			
Notes:																							
1 Thickness was measured for every roll.																							
2 Minimum property value in machine direction (MD) and transverse direction (TD).																							
3 Project requirements for carbon black dispersion are: 8 of 10 in Category 1 or 2 and all in Category 1, 2, or 3. Results are for Category 1 or 2.																							
4 A minimum of 1 test per lot was required.																							
5 Average / Minimum thickness.																							
Average Roll Area (410 ft x 23 ft):		9,430	ft²																				
No. of Rolls in Lot:		8																					
Area in Lot:		75,440	ft²																				
																			SHEET NO. 2 OF 4				
																			CUMULATIVE NUMBER OF ROLLS: 13				
																			CUMULATIVE AREA: 75,440 ft²				

Table 5-2A (continued)

CQA AND MQC TEST RESULTS FOR 60-mil TEXTURED GEOMEMBRANE (AGRU AMERICA)
RESIN LOT NO. MM193223

PROPERTY	CONSTRUCTION QUALITY ASSURANCE (CQA)							MANUFACTURING QUALITY CONTROL (MQC)									
	Thickness (mil)	Density (g/cm ³)	Carbon Black Content (%)	Yield Strength ² (lb/in)	Break Strength ² (lb/in)	Yield Elongation ² (%)	Break Elongation ² (%)	Thickness ¹ (mil)	Density (g/cm ³)	Carbon Black Content (%)	Carbon Black Dispersion	Yield Strength ² (psi)	Break Strength ² (psi)	Yield Elongation ² (%)	Break Elongation ² (%)	Tear Resistance ² (lb)	Puncture Resistance (lb)
TEST STANDARD	ASTM D 5994	ASTM D 1505	ASTM D 1603	ASTM D 6693	ASTM D 6693	ASTM D 6693	ASTM D 6693	ASTM D 5994	ASTM D 1505	ASTM D 1603	ASTM D 5596	ASTM D 6693	ASTM D 6693	ASTM D 6693	ASTM D 6693	ASTM D 1004	ASTM D 4833
PROJECT SPECS.	≥ 60 / 54 ⁵	≥ 0.94	2 to 3	≥ 130	≥ 72	≥ 12	≥ 100	≥ 60 / 54 ⁽⁶⁾	≥ 0.94	2 to 3	See Note 3	≥ 2170 (130 ppi)	≥ 1200 (72 ppi)	≥ 12	≥ 100	≥ 40	≥ 80
TESTING FREQUENCY	1 per 100,000 ft ² 4							1 per 50,000 ft ² 4									

ROLL NUMBER	CQA SAMPLE ID	TEST RESULTS										TEST RESULTS										PASS/FAIL (P/F)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

Notes:

1 Thickness was measured for every roll.

2 Minimum property value in machine direction (MD) and transverse direction (TD).

3 Project requirements for carbon black dispersion are: 8 of 10 in Category 1 or 2 and all in Category 1, 2, or 3. Results are for Category 1 or 2.

4 A minimum of 1 test per lot was required.

5 Average / Minimum thickness

Average Roll Area (410 ft x 23 ft): 9,430 ft²
 No. of Rolls in Lot: 70
 Area in Lot: 660,100 ft²

SHEET NO. 3 OF 4
 CUMULATIVE NUMBER OF ROLLS: 78
 CUMULATIVE AREA: 735,540 ft²

Table 5-2A (continued)

**CQA AND MQC TEST RESULTS FOR 60-mil TEXTURED GEOMEMBRANE (AGRU AMERICA)
RESIN LOT NO. MM193226**

CONSTRUCTION QUALITY ASSURANCE (CQA)										MANUFACTURING QUALITY CONTROL (MQC)									
PROPERTY	Thickness (mil)	Density (g/cm ³)	Carbon Black Content (%)	Carbon Black Dispersion	Yield Strength ² (lb/in)	Break Strength ² (lb/in)	Yield Elongation ² (%)	Break Elongation ² (%)	Thickness ¹ (mil)	Density (g/cm ³)	Carbon Black Content (%)	Carbon Black Dispersion	Yield Strength ² (psi)	Break Strength ² (psi)	Yield Elongation ² (%)	Break Elongation ² (%)	Tear Resistance ² (lb)	Puncture Resistance (lb)	
TEST STANDARD	ASTM D 5994	ASTM D 1505	ASTM D 1603	ASTM D 5596	ASTM D 6693	ASTM D 6693	ASTM D 6693	ASTM D 6693	ASTM D 5994	ASTM D 1505	ASTM D 1603	ASTM D 5596	ASTM D 6693	ASTM D 6693	ASTM D 6693	ASTM D 6693	ASTM D 1004	ASTM D 4833	
PROJECT SPECS.	≥ 60 / 54 ⁵	≥ 0.94	2 to 3	See Note 3	≥ 130	≥ 72	≥ 12	≥ 100	≥ 60 / 54 ⁽⁶⁾	≥ 0.94	2 to 3	See Note 3	≥ 2170 (130 ppi)	≥ 1200 (72 ppi)	≥ 12	≥ 100	≥ 40	≥ 80	
TESTING FREQUENCY	1 per 100,000 ft ² 4										1 per 50,000 ft ² 4								

ROLL NUMBER	CQA SAMPLE ID	TEST RESULTS										TEST RESULTS							PASS/FAIL (P/F)	
		68/62	0.946	2.49	10	167	204	18	486	67/61	0.946	2.56	10	2450	3149	18	543	54	135	P
102334 ⁶	E2251-83-09									63/57	0.947	2.63	10	2381	3090	18	537	55	139	P
102439										63/57	0.945	2.52	10	2457	3206	17	541	54	135	P
102444	E2251-83-09	65/62	0.946	2.44	10	158	180	17	462	63/58	0.946	2.64	10	2425	3087	18	532	54	144	P
102449										63/57	0.946	2.59	10	2475	3067	18	520	54	145	P
102554	E2251-84-07	65/61	0.946	2.45	10	154	171	16	485	64/59	0.944	2.52	10	2432	3121	19	520	55	139	P
102559										63/58	0.946	2.65	10	2417	2964	18	512	56	141	P
102564	E2251-84-07	65/62	0.945	2.51	10	147	167	17	496	63/55	0.946	2.26	10	2448	3129	17	526	53	144	P
102669										64/56	0.948	2.24	10	2579	3212	17	536	54	139	P
102674	E2251-84-07	66/62	0.946	2.14	10	159	190	15	480	64/58	0.945	2.30	10	2538	3188	17	534	57	152	P
102679																				P

Notes:

1 Thickness was measured for every roll.

2 Minimum property value in machine direction (MD) and transverse direction (TD).

3 Project requirements for carbon black dispersion are: 8 of 10 in Category 1 or 2 and all in Category 1, 2, or 3. Results are for Category 1 or 2.

4 A minimum of 1 test per lot was required.

5 Average / Minimum thickness.

6 This roll was used to perform interface friction test.

Average Roll Area (410 ft x 23 ft): 9,430 ft²
 No. of Rolls in Lot: 48
 Area in Lot: 452,640 ft²

SHEET NO. 4 OF 4
 CUMULATIVE NUMBER OF ROLLS: 126
 CUMULATIVE AREA: 1,188,180 ft²

Table 5-2B

**MQC TEST RESULTS FOR RESIN USED TO MANUFACTURE TEXTURED
GEOMEMBRANE AND WELDING RODS**

	Product Name	Supplier Name	Density (g/cm ³)	Melt Index (g/10 min)	Percent of Reclaimed Polymer
TEST STANDARD			ASTM D1505	ASTM D 1238	
PROJECT SPECS.			≥ 0.932	≤ 1.0	0%
TESTING FREQUENCY			1 per Lot		

Geomembrane Lot Number	TEST RESULTS					PASS/FAIL (P/F)
192761	Petromont 7002 HDPE	Agru	0.937	0.17	0%	P
193221	Petromont 7002 HDPE	Agru	0.937	0.22	0%	P
193223	Petromont 7002 HDPE	Agru	0.938	0.23	0%	P
193226	Petromont 7002 HDPE	Agru	0.937	0.23	0%	P

Welding Rods	TEST RESULTS					PASS/FAIL (P/F)
192276	Petromont 7002 HDPE	Agru	0.948	0.18	0%	P

Table 5-2C

MISCELLANEOUS MQC TEST RESULTS FOR 60-mil TEXTURED GEOMEMBRANE (AGRU AMERICA)

	Dimensional Stability (%)	Notched Constant Tensile Load (hrs)
TEST STANDARD	ASTM D 1204	ASTM D 5397
PROJECT SPECS.	$\leq \pm 2$	≥ 200
TESTING FREQUENCY	1 per Lot	1 per 400,000

Geomembrane Lot Number	Geomembrane Roll Number	TEST RESULTS		PASS/FAIL (P/F)
192761	344461	-0.58	Passed	P
193223	103113	-0.63	412	P
193226	102676	-0.44	412	P
193226	102334	-0.44	429	P
193221	103349	-0.68	373	P

Table 5-3A

**DESTRUCTIVE SEAM TEST RESULTS FOR PRIMARY LINER
INSTALLED IN CELL 2**

Sample No.	Panel No.	Weld Type ¹	Peel Strength ² (lb/in)												Shear Strength ³ (lb/in)					Failure Type ⁴	Pass/Fail (P/F)
			Bottom Peel (inside)						Top Peel (outside)												
			117	113	116	117	110	113	108	108	115	108	177	174	178	172	175				
DSP-1	16/17	F	109	122	105	111	106	136	160	122	153	110	172	171	172	171	FTB	P			
DSP-2	18/21	F	113	109	112	120	115	122	106	108	120	113	166	170	169	170	FTB	P			
DSP-3	22/23	F	112	114	114	111	118	119	115	122	132	123	175	173	174	173	FTB	P			
DSP-4	23/24	F	120	120	124	119	113	117	113	114	115	110	174	175	176	175	FTB	P			
DSP-5	24/25	F	115	117	117	116	116	112	125	121	121	125	179	175	180	179	FTB	P			
DSP-6	25/26	F	111	109	110	113	113	116	111	109	117	118	168	169	170	171	FTB	P			
DSP-7	27/28	F	126	123	139	128	128	110	117	125	123	117	181	177	175	180	FTB	P			
DSP-8	28/29	F	115	117	123	117	118	111	117	115	113	116	172	168	168	168	FTB	P			
DSP-9	29/30	F	142	139	141	135	145	112	116	112	114	115	161	144	165	163	FTB	P			
DSP-10	30/31	F	117	113	113	118	112	118	118	119	120	116	172	172	176	173	FTB	P			
DSP-11	32/33	F	120	118	123	131	118	126	137	120	132	117	178	177	181	180	FTB	P			
DSP-12	33/34	F	115	119	115	116	120	132	131	138	130	112	179	176	177	177	FTB	P			
DSP-13	34/35	F	134	117	133	132	126	114	149	138	112	143	172	168	170	172	FTB	P			
DSP-14	35/36	F	113	126	115	126	126	126	110	125	113	127	125	146	126	132	FTB	P			
DSP-15	37/38	F	119	124	116	123	116	115	108	110	114	109	172	175	171	175	FTB	P			
DSP-16	38/39	F	117	118	116	123	118	116	117	118	113	111	170	168	172	173	FTB	P			
DSP-17	39/40	F	140	129	124	150	135	N/A	N/A	N/A	N/A	N/A	161	159	165	162	FTB	P			
DSP-18	33/EXT	E	118	115	118	127	113	112	113	116	118	115	177	177	178	178	FTB	P			
DSP-19	40/41	F	120	115	115	112	113	116	110	114	110	119	172	175	173	172	FTB	P			
DSP-20	42/43	F	123	125	121	119	129	122	121	112	116	109	169	174	171	170	FTB	P			
DSP-21	43/44	F	123	116	121	130	133	117	111	117	118	120	174	174	173	175	FTB	P			
DSP-22	44/45	F	116	117	119	116	121	114	109	113	115	109	172	172	177	175	FTB	P			
DSP-23	45/46	F	122	127	121	117	121	137	128	128	127	117	171	174	173	171	FTB	P			
DSP-24	47/48	F	129	128	122	121	124	114	110	111	111	110	171	172	176	172	FTB	P			
DSP-25	48/49	F																			

Notes:

1 "F" is fusion and "E" is extrusion weld.

2 Specified peel strength: 78 lb/in for fusion and 70 lb/in for extrusion

3 Specified shear strength: 120 lb/in for fusion and 108 lb/in for extrusion

4 "FTB" is Film Tear Bond (with maximum 10 percent seam separation).

Table 5-3A (continued)
DESTRUCTIVE SEAM TEST RESULTS FOR PRIMARY LINER
INSTALLED IN CELL 2

Sample No.	Panel No.	Weld Type ¹	Peel Strength ² (lb/in)												Shear Strength ³ (lb/in)				Failure Type ⁴	Pass/Fail (P/F)
			Bottom Peel (inside)						Top Peel (outside)											
			141	134	141	127	127	118	122	112	116	129	168	170	168	172	169			
DSP-26	49/50	F	122	130	140	120	119	N/A	N/A	N/A	N/A	N/A	N/A	149	165	166	160	148	FTB	P
DSP-27	48/EXT	E	119	116	119	124	123	118	110	119	119	123	171	156	175	172	169	FTB	P	
DSP-28	53/54	F	130	129	130	117	120	122	123	117	123	121	167	167	169	170	170	FTB	P	
DSP-29	55/56	F	142	131	129	128	128	119	112	127	110	113	179	175	179	183	186	FTB	P	
DSP-30	58/59	F	126	125	121	124	124	121	117	117	118	119	179	177	176	182	175	FTB	P	
DSP-31	61/62	F	123	125	124	123	120	119	121	125	125	127	180	178	180	177	177	FTB	P	
DSP-32	62/64	F	120	124	126	128	128	134	113	115	114	121	174	172	170	171	171	FTB	P	
DSP-33	66/68	F	133	129	135	141	146	127	111	117	118	114	183	179	177	178	178	FTB	P	
DSP-34	70/71	F	118	119	126	118	120	108	109	116	111	106	181	174	174	178	174	FTB	P	
DSP-35	87/88	F	144	136	146	141	143	159	151	145	150	135	171	174	173	173	172	FTB	P	
DSP-36	71/83	F	150	149	152	155	153	130	134	129	137	132	168	162	165	163	167	FTB	P	
DSP-37	23/62	F	123	120	128	133	129	144	150	151	148	155	166	171	167	168	166	FTB	P	
DSP-38	19/21	F	116	124	124	123	135	116	114	126	127	131	173	172	174	174	179	FTB	P	
DSP-39	50/93	F	130	125	128	128	137	125	113	120	121	136	182	179	181	184	187	FTB	P	
DSP-40	94/95	F	116	116	117	114	120	117	114	115	116	119	181	176	177	178	182	FTB	P	
DSP-41	95/96	F	114	121	115	123	116	107	113	106	115	107	178	179	179	179	177	FTB	P	
DSP-42	96/97	F	123	113	120	112	118	120	118	114	114	113	178	173	173	176	174	FTB	P	
DSP-43	97/98	F	130	124	137	135	133	133	122	126	129	129	187	176	176	180	180	FTB	P	
DSP-44	99/100	F	114	112	110	122	119	134	112	109	107	110	175	169	171	178	170	FTB	P	
DSP-45	103/104	F	177	162	174	144	185	N/A	N/A	N/A	N/A	N/A	174	179	175	171	172	FTB	P	
DSP-46	98/EXT	E	110	129	123	127	123	101	136	99	119	119	176	173	171	179	172	FTB	P	
DSP-47	114/115	F	116	113	114	110	110	127	125	111	114	126	169	166	167	165	171	FTB	P	
DSP-48	121/122	F	123	127	122	132	122	136	118	139	141	112	171	167	168	174	165	FTB	P	
DSP-49	128/129	F	126	127	120	142	121	135	145	144	142	158	182	182	186	184	178	FTB	P	
DSP-50	100/125	F	137	139	131	140	139	N/A	N/A	N/A	N/A	N/A	160	158	166	161	165	FTB	P	
DSP-51	133/144	E																		

Notes:

- 1 "F" is fusion and "E" is extrusion weld.
- 2 Specified peel strength: 78 lb/in for fusion and 70 lb/in for extrusion
- 3 Specified shear strength: 120 lb/in for fusion and 108 lb/in for extrusion
- 4 "FTB" is Film Tear Bond (with maximum 10 percent seam separation).

Table 5-3A (continued)

**DESTRUCTIVE SEAM TEST RESULTS FOR PRIMARY LINER
INSTALLED IN CELL 2**

Sample No.	Panel No.	Weld Type ¹	Peel Strength ² (lb/in)												Shear Strength ³ (lb/in)					Failure Type ⁴	Pass/Fail (P/F)
			Bottom Peel (inside)						Top Peel (outside)												
			121	120	120	114	121	132	131	123	122	133	173	170	174	174					
DSP-52	51/145	F	118	117	118	115	118	121	129	120	120	117	157	160	165	163	162	FTB	P		
DSP-53	148/149	F	120	118	121	124	116	134	125	142	126	119	170	166	167	167	164	FTB	P		
DSP-54	151/152	F	128	131	129	114	130	112	118	110	117	114	169	166	166	165	164	FTB	P		
DSP-55	155/157	F	99	116	121	120	113	116	117	113	115	116	173	167	167	165	164	FTB	P		
DSP-56	160/161	F	126	116	121	120	113	132	112	111	118	117	175	173	172	172	171	FTB	P		
DSP-57	165/166	F	143	148	150	148	138	133	106	138	136	141	156	155	156	159	156	FTB	P		
DSP-58	168/169	F	129	147	142	150	130	153	159	161	155	163	178	174	171	173	177	FTB	P		
DSP-59	44/160	F																	P		

Notes:

1 "F" is fusion and "E" is extrusion weld.

2 Specified peel strength: 78 lb/in for fusion and 70 lb/in for extrusion

3 Specified shear strength: 120 lb/in for fusion and 108 lb/in for extrusion

4 "FTB" is Film Tear Bond (with maximum 10 percent seam separation).

Notes:

¹ "F" is fusion and "E" is extrusion weld.

² Specified peel strength: 78 lb/in for fusion and 70 lb/in for extrusion

³ Specified shear strength: 120 lb/in for fusion and 108 lb/in for extrusion

⁴ "FTB" is Film Tear Bond (with maximum 10 percent seam separation).

Table 5-3B

**DESTRUCTIVE SEAM TEST RESULTS FOR SECONDARY LINER
INSTALLED IN CELL 2**

Sample No.	Panel No.	Weld Type ¹	Peel Strength ²												Failure Type ⁴	Pass/Fail (P/F)	Retest No.			
			Bottom Peel (inside)						Top Peel (outside)											
			126	109	118	110	107	142	131	118	118	139	181	183				178	180	181
DSS-1	14/15	F	125	122	120	133	130	152	151	143	116	115	185	179	183	178	176	FTB	P	
DSS-2	19/21	F	126	126	125	122	125	146	137	134	144	141	186	184	188	182	186	FTB	P	
DSS-3	22/23	F	121	120	120	122	117	121	112	115	117	116	184	184	182	185	181	FTB	P	
DSS-4	23/24	F	121	117	130	125	118	103	102	106	108	109	185	181	181	182	182	FTB	P	
DSS-5	24/25	F	121	118	116	119	124	119	124	127	115	120	186	186	183	183	184	FTB	P	
DSS-6	25/26	F	133	118	133	117	113	110	105	119	132	118	183	183	187	180	182	FTB	P	
DSS-7	27/28	F	118	117	121	117	117	131	127	127	136	131	184	179	179	184	184	FTB	P	
DSS-8	28/29	F	108	113	114	112	123	112	113	112	119	122	174	177	176	177	174	FTB	P	
DSS-9	29/30	F	121	120	127	125	116	120	114	114	120	114	177	174	174	173	174	FTB	P	
DSS-10	31/32	F	114	128	112	119	117	127	113	127	130	136	172	175	172	171	172	FTB	P	
DSS-11	32/33	F	117	117	117	118	121	114	120	120	121	120	172	170	169	170	168	FTB	P	
DSS-12	33/34	F	121	128	143	125	136	115	128	119	132	127	179	174	175	175	174	FTB	P	
DSS-13	34/35	F	118	118	113	119	122	115	118	114	116	115	175	173	172	171	174	FTB	P	
DSS-14	35/36	F	117	122	125	131	124	137	126	137	125	124	174	177	174	180	176	FTB	P	
DSS-15	37/38	F	123	130	131	123	135	118	121	122	123	126	172	168	170	171	169	FTB	P	
DSS-16	38/39	F	127	132	129	131	130	123	120	113	118	115	175	174	175	171	173	FTB	P	
DSS-17	39/40	F	173	148	150	162	132	N/A	N/A	N/A	N/A	N/A	173	148	150	162	132	FTB	P	
DSS-18	34/EXT	E	122	122	116	118	126	142	106	145	133	109	171	169	170	171	168	FTB	P	
DSS-19	40/41	F	121	128	129	133	130	113	114	111	108	121	170	172	169	169	169	FTB	P	
DSS-20	41/42	F	126	126	123	129	130	124	137	143	127	130	172	170	168	170	172	FTB	P	
DSS-21	42/43	F	117	122	120	123	120	124	121	125	139	114	171	167	168	167	167	FTB	P	
DSS-22	43/44	F	121	135	122	140	133	120	117	125	117	122	161	168	171	162	166	FTB	P	
DSS-23	44/45	F	119	116	117	121	116	120	113	109	116	110	169	167	166	165	169	FTB	P	
DSS-24	45/46	F																		

Notes:

¹ "F" is fusion and "E" is extrusion weld.

² Specified peel strength: 78 lb/in for fusion and 70 lb/in for extrusion

³ Specified shear strength: 120 lb/in for fusion and 108 lb/in for extrusion

⁴ "FTB" is Film Tear Bond (with maximum 10 percent seam separation).

Table 5-3B (continued)

**DESTRUCTIVE SEAM TEST RESULTS FOR SECONDARY LINER
INSTALLED IN CELL 2**

Sample No.	Panel No.	Weld Type ¹	Peel Strength ²													Shear Strength ³							Failure Type ⁴	Pass/Fail (P/F)	Retest No.
			Bottom Peel (inside)						Top Peel (outside)																
			119	117	118	116	115	116	114	117	113	116	171	168	173	171	170	FTB	P						
DSS-25	46/47	F	124	125	129	128	123	114	111	118	118	115	174	173	179	176	176	FTB	P						
DSS-26	47/48	F	124	137	141	121	125	118	118	117	113	114	179	177	180	182	174	FTB	P						
DSS-27	48/49	F	111	116	119	114	115	108	115	118	118	112	167	168	169	169	167	FTB	P						
DSS-28	49/50	F	116	121	128	124	120	127	111	120	125	131	172	167	170	169	170	FTB	P						
DSS-29	51/52	F	131	126	132	124	133	113	115	118	115	121	166	169	172	175	171	FTB	P						
DSS-30	52/53	F	129	121	125	135	132	112	110	111	116	113	172	173	173	177	175	FTB	P						
DSS-31	53/54	F	145	146	154	149	147	146	147	154	150	153	162	163	163	163	161	FTB	P						
DSS-32	57/58	F	122	118	124	120	120	114	118	118	127	122	176	177	177	178	180	FTB	P						
DSS-33	58/59	F	132	117	84	115	119	N/A	N/A	N/A	N/A	N/A	166	171	166	167	162	Non-FTB	F						
DSS-34	57/EXT	E	173	174	174	170	175	N/A	N/A	N/A	N/A	N/A	167	166	169	170	177	FTB	P						
DSS-34A	P2/EXT	E	128	126	132	137	131	N/A	N/A	N/A	N/A	N/A	157	160	161	157	163	FTB	P						
DSS-34B	56/EXT	E	119	117	124	141	133	107	113	116	112	109	178	175	172	170	174	FTB	P						
DSS-35	61/62	F	114	119	111	111	123	113	116	109	108	114	172	174	170	170	174	FTB	P						
DSS-36	66/67	F	94	120	120	123	121	120	122	119	115	100	164	167	165	163	170	FTB	P						
DSS-37	76/77	F	118	130	110	115	117	118	122	121	114	115	176	175	169	173	173	FTB	P						
DSS-38	82/83	F	136	120	127	125	141	141	147	140	14	138	162	167	165	172	166	FTB	P						
DSS-39	65/75	F	160	156	124	155	161	N/A	N/A	N/A	N/A	N/A	167	166	173	177	168	FTB	P						
DSS-40	65/EXT	E	128	157	151	137	144	134	134	127	122	136	176	174	171	171	171	FTB	P						
DSS-41	102/103	F	143	135	135	143	126	138	128	123	133	118	179	180	182	180	179	FTB	P						
DSS-42	108/109	F	122	118	108	117	112	111	110	104	107	110	171	172	172	172	174	FTB	P						
DSS-43	114/116	F	106	114	117	114	121	111	107	109	113	109	169	168	170	168	170	FTB	P						
DSS-44	130/131	F																							

Notes:

1 "F" is fusion and "E" is extrusion weld.

2 Specified peel strength: 78 lb/in for fusion and 70 lb/in for extrusion

3 Specified shear strength: 120 lb/in for fusion and 108 lb/in for extrusion

4 "FTB" is Film Tear Bond (with maximum 10 percent seam separation).

Table 5-3B (continued)

**DESTRUCTIVE SEAM TEST RESULTS FOR SECONDARY LINER
INSTALLED IN CELL 2**

Sample No.	Panel No.	Weld Type ¹	Peel Strength ² (lb/in)												Shear Strength ³ (lb/in)					Failure Type ⁴	Pass/Fail (P/F)	Retest No.
			Bottom Peel (inside)						Top Peel (outside)													
			125	130	129	123	124	108	111	111	111	108	171	169	170	173	172					
DSS-45	126/127	F	110	125	126	113	127	118	111	122	107	116	171	171	172	FTB	P					
DSS-46	122/123	F	119	117	116	115	121	113	116	117	111	117	168	170	171	FTB	P					
DSS-47	119/120	F	145	141	136	146	140	140	136	136	137	136	163	162	166	163	167	FTB	P			
DSS-48	44/132	F	138	132	139	126	129	130	114	117	111	118	178	176	176	178	176	FTB	P			
DSS-49	118/133	F	121	113	117	117	125	114	113	115	109	111	182	177	178	187	184	FTB	P			
DSS-50	135/137	F	116	121	125	125	119	108	110	111	114	109	179	173	174	172	174	FTB	P			
DSS-51	138/140	F	117	120	114	118	120	117	114	115	117	116	171	168	172	176	174	FTB	P			
DSS-52	141/143	F	123	122	125	121	126	111	113	112	112	110	176	175	174	184	176	FTB	P			
DSS-53	144/146	F	129	139	136	141	130	115	125	120	120	120	181	179	179	178	175	FTB	P			
DSS-54	145/147	F	118	124	120	116	128	130	107	106	114	106	172	171	179	175	171	FTB	P			
DSS-55	149/150	F	145	148	133	156	145	127	129	128	126	125	171	169	169	177	170	FTB	P			
DSS-56	29/137	F	117	118	119	124	129	111	111	111	114	115	187	181	181	180	181	FTB	P			
DSS-57	158/159	F	119	114	115	119	116	116	114	113	112	110	184	185	185	190	180	FTB	P			
DSS-58	166/167	F	137	132	130	115	126	158	144	164	149	144	183	180	185	180	178	FTB	P			
DSS-59	153/164	F																				

Notes:

1 "F" is fusion and "E" is extrusion weld.

2 Specified peel strength: 78 lb/in for fusion and 70 lb/in for extrusion

3 Specified shear strength: 120 lb/in for fusion and 108 lb/in for extrusion

4 "FTB" is Film Tear Bond (with maximum 10 percent seam separation).

Table 5-4A

CQA AND MQC TEST RESULTS FOR PRIMARY GEOCOMPOSITE (TENAX)

	CONSTRUCTION QUALITY ASSURANCE (CQA)								MANUFACTURING QUALITY CONTROL (MQC)		
PROPERTY	GEOTEXTILE					GEOCOMPOSITE		GEOCOMPOSITE			
	Mass per Unit Area ¹ (oz/yd ²)	Grab Strength ² (lb)	Trapezoidal Tear Strength ² (lb)	Apparent Opening Size (mm)	Permittivity (sec ⁻¹)	Transmissivity (m ² /sec)		Peel Strength ³ (lb/in)	Transmissivity (m ² /sec)	Peel Strength ³ (lb/in)	
TEST STANDARD	ASTM D 5261	ASTM D 4632	ASTM D 4533	ASTM D 4751	ASTM D 4491	ASTM D 4716		ASTM F 904	ASTM D 4716	GRI GC7	
PROJECT SPECS.	≥ 8	≥ 180	≥ 75	≤ 0.21	≥ 0.5	≥ 7.8x10 ⁻³ at 500 psf	≥ 2.6x10 ⁻³ at 13,500 psf	≥ 1.0	≥ 7.8x10 ⁻³ at 500 psf	≥ 2.6x10 ⁻³ at 13,500 psf	≥ 1.0
TESTING FREQUENCY	1 per 200,000 ft ^{2 4}			1 per 500,000 ft ^{2 4}		1 per 200,000 ft ^{2 4}			1 per 100,000 ft ^{2 4}		

GEOCOMPOSITE ROLL NUMBER	LOT NO.	CQA SAMPLE ID	CQA TEST RESULTS							MQC TEST RESULTS			PASS/FAIL (P/F)	
													CQA	MQC
6500459	65004									1.15x10 ⁻²	4.15x10 ⁻³	1.8		P
6500460												1.8		P
6500470												1.8		P
6500475 ⁵		E2256-07-09	8.8	311	118	0.14	1.6	8.9x10 ⁻³	6.2x10 ⁻³	2.3			P	
6500489												3.2		P
6500501												5.6		P
6500515											1.4x10 ⁻²	3.0x10 ⁻³	1.6	P
6500540												1.3		P
6500555		E2256-14-07	8.7	278	121	0.132	1.71	1.2x10 ⁻²	6.4x10 ⁻³	1.3			P	
6500560											1.95x10 ⁻²	1.0x10 ⁻²	1.7	P
0600001											8.9x10 ⁻³	3.5x10 ⁻³	3.7	P
0600041		E2256-39-07	8.5	286	128			5.7x10 ⁻³	3.1x10 ⁻³	3.92	8.4x10 ⁻³	7.0x10 ⁻³	3.4	P P
0600081											8.0x10 ⁻³	3.4x10 ⁻³	3.9	P
0600121		E2256-45-03	8.7	309	114			7.9x10 ⁻³	3.4x10 ⁻³	2.1	1.0x10 ⁻²	5.1x10 ⁻³	3.9	P P

Notes:

- ¹ Smaller of top and bottom average mass per unit area
- ² Smaller of average value in machine or cross-machine direction.
- ³ Smaller of top and bottom average peel strength.
- ⁴ A minimum of 1 test per lot was required.
- ⁵ This roll was used to perform interface friction tests.

Average Roll Area: 2,500 ft²

Total No. of Rolls: 251

Total Area of Rolls: 607,000 ft²

Table 5-4B

**MQC TEST RESULTS FOR GEOTEXTILE USED TO MANUFACTURE
PRIMARY GEOCOMPOSITE (TENAX)**

PROPERTY	Mass per Unit Area (oz/yd ²)	Grab Strength (lb) ¹	Trapezoidal Tear Strength ¹ (lb)	Puncture Strength (lb)	Mullen Burst Strength, (psi) or CBR Puncture Strength, (lb) ²		Apparent Opening Size (mm)	Permittivity (sec ⁻¹)
TEST STANDARD	ASTM D 5261	ASTM D 4632	ASTM D 4533	ASTM D 4833	ASTM D 3786 (Burst Strength)	ASTM D 6241 (CBR)	ASTM D 4751	ASTM D 4491
PROJECT SPECS.	≥ 8	≥ 180	≥ 75	≥ 75	≥ 350	≥ 449	≤ 0.21	≥ 0.5
TESTING FREQUENCY	1 per 100,000 ft ²				1 per 250,000 ft ²			

GEOTEXTILE ROLL NUMBER	LOT NO.	TEST RESULTS								PASS/FAIL (P/F)
5003303	50016	9.0	307.8	111.8	101.8		734.6	0.12	1.05	P
5003304		9.0	285.2	107.2	102.2		662.4	0.12	1.12	P
5003308		8.4	277.7	113.8	104.2					P
5003312		8.4	290.0	113.6	103.2			0.12	1.06	P
5003315				-			640			P
5003316		8.3	273.3	112	95					P
5003320		8.6	285.8	108.7	101.7					P
5003323		8.3	267.5				651.8	0.12	0.82	P
5003327		8.2	267.4	93.1	101.9					P
5003329		8.4	279.7	98.2	108.9		661.1	0.12	1.23	P
5003333		8.2	293.4	108	93					P
5003337		8.4	284.8	95	101					P
5003340		8.2	282.7	104	102		677.3	0.12	1.27	P
5003341		8.2	277.9	105	103					P
5003345		8.2	281.1	112	102					P
5003348		8.3	279.7	99.3	105.1					P
5003350		8.0	283.2	89.4	109.0		690.3	0.12	1.39	P
5003354		8.1	270.0	97.2	100.9					P
5003358		8.3	288.2	94.9	105.3			0.12	1.15	P
5003359		8.2	289.3	100.6	102.3			0.12	0.71	P
5003361							702.0			P
5003363		8.6	287.3	102.8	97.7			0.12	0.71	P
5003364		8.3	280.9	97.9	104.2					P
5003365		8.5	282.4	105.5	100.7			0.11	0.87	P
5003369		8.3	282.5	104.2	102.8		696.6			P
5003373		8.3	276.5	110.7	97.8			0.12	0.80	P
5003377		8.3	292.9	109.2	97.5					P
5003380							658.0			P
5003381		8.3	280.3	105.2	90.6			0.13	0.90	P
5003385		8.1	282.3	101.2	110.6					P

Note:

¹ Smaller value in machine and cross-machine directions.² A frequency of 1 per 250,000 ft² is accepted.

Table 5-4B (continued)

**MQC TEST RESULTS FOR GEOTEXTILE USED TO MANUFACTURE
PRIMARY GEOCOMPOSITE (TENAX)**

PROPERTY	Mass per Unit Area (oz/yd ²)	Grab Strength ¹ (lb)	Trapezoidal Tear Strength ¹ (lb)	Puncture Strength (lb)	Mullen Burst Strength, (psi) or CBR Puncture Strength, (lb) ²		Apparent Opening Size (mm)	Permittivity (sec ⁻¹)
TEST STANDARD	ASTM D 5261	ASTM D 4632	ASTM D 4533	ASTM D 4833	ASTM D 3786 (Burst Strength)	ASTM D 6241 (CBR)	ASTM D 4751	ASTM D 4491
PROJECT SPECS.	≥ 8	≥ 180	≥ 75	≥ 75	≥ 350	≥ 449	≤ 0.21	≥ 0.5
TESTING FREQUENCY	1 per 100,000 ft ²				1 per 250,000 ft ²			

GEOTEXTILE ROLL NUMBER	LOT NO.	TEST RESULTS								PASS/FAIL (P/F)
5003389	50016	8.6	281.1	106.0	103.7		717.0			P
5003393		8.4	299.4	106.2	100.9			0.16	1.38	P
5003397		8.3	276.1	104.0	95.3					P
5003400							629.6			P
5003401		8.7	286.5	118.1	100.4			0.13	1.32	P
5003405		8.2	293.0	113.9	99.0					P
5003409		8.4	292.5	103.2	104.5		658.0			P
5003413		8.3	290.8	116.7	105.7		704.9	0.12	1.55	P
5003417		8.3	282.2	107.7	95.8		662.5			P
5003421		8.3	277.0	118.8	106.1		675.3			P
5003425		8.3	273.8	99.1	106.0		704.0			P
5003429		8.1	267.5	108.9	101.6			0.12	1.33	P
5003433		8.3	270.7	115.1	107.8		700.8	0.12	1.32	P
5003437		8.3	265.5	101.6	108.9		701.4			P
5003440							687.0			P
5003441		8.2	264.2	106.6	103.5					P
5003445		8.1	254.8	105.3	101.4					P
5003449		8.5	271.5	106.1	105.9					P
5003450							628.2			P

Note:

¹ Smaller value in machine and cross-machine directions.² A frequency of 1 per 250,000 ft² is accepted.

Table 5-4B (continued)

**MQC TEST RESULTS FOR GEOTEXTILE USED TO MANUFACTURE
PRIMARY GEOCOMPOSITE (TENAX)**

PROPERTY	Mass per Unit Area (oz/yd ²)	Grab Strength ¹ (lb)	Trapezoidal Tear Strength ¹ (lb)	Puncture Strength (lb)	Mullen Burst Strength, (psi) or CBR Puncture Strength, (lb) ²		Apparent Opening Size (mm)	Permittivity (sec ⁻¹)
TEST STANDARD	ASTM D 5261	ASTM D 4632	ASTM D 4533	ASTM D 4833	ASTM D 3786 (Burst Strength)	ASTM D 6241 (CBR)	ASTM D 4751	ASTM D 4491
PROJECT SPECS.	≥ 8	≥ 180	≥ 75	≥ 75	≥ 350	≥ 449	≤ 0.21	≥ 0.5
TESTING FREQUENCY	1 per 100,000 ft ²				1 per 250,000 ft ²			

GEOTEXTILE ROLL NUMBER	LOT NO.	TEST RESULTS								PASS/FAIL (P/F)
5003927	50018	8.8	251.6	125.9	104.1		760.7	0.13	1.58	P
5003931		8.7	299.3				782.6			P
5003934		8.6	264.8	101.7	96.3			0.14	1.70	P
5003935		8.6	286.9				775.1			P
5003938		8.8	285.6	100.2	106.3				1.01	P
5003939		8.9	274.7				735.6			P
5003940		8.6								P
5003942		8.7	265.9	102.0	100.4					P
5003943							772.9			P
5003944		8.5	279.9	107.0	99.6			0.14	1.00	P
5003945		8.9	305.0							P
5003947		8.8	287.5	105.5	98.2		727.0	0.13	0.81	P
5003948		8.8	269.6							P
5003949		8.7					808.2			P
4007332	40048	8.7	328.0	127.9	147.9		766.9	0.09	0.95	P
4007333		8.8	358.2	136.0	159.8			0.08	1.06	P
4007335		8.8	345.7	119.4	154.7			0.08	1.05	P
4007336		8.7	364.3							P
4007338		8.7	333.3				787.4			P
200507051	60019	8.8	252.1	124.6	104.4		890.3	0.13	1.58	P
200507054		8.5	286.7	100.0	106.3		880.2	0.14	1.01	P
5001757	50007	8.6	291.8	113.7	143.2		628.2	0.10	1.20	P
5001763		8.5	301.9				702.4			P

Note:

¹ Smaller value in machine and cross-machine directions.² A frequency of 1 per 250,000 ft² was accepted.

Table 5-4C

**MQC TEST RESULTS FOR GEONET USED TO MANUFACTURE
PRIMARY GEOCOMPOSITE (TENAX)**

PROPERTY	Polymer Density (g/cm ³)	Carbon Black Content (%)	Thickness (mil)
TEST STANDARD	ASTM D 1505	ASTM D 1603	ASTM D 5199
PROJECT SPECS.	≥ 0.93	2 to 3	≥ 200
TESTING FREQUENCY	1 per 100,000 ft ²		

GEONET ROLL NUMBER	LOT NO.	TEST RESULTS			PASS/FAIL (P/F)
6900003	69001	0.948	2.25	369.5	P
6900004		0.948	2.16	326.2	P
6900005		0.948	2.47	327.3	P
6900009		0.948	2.59	327.4	P
6900011		0.948	2.54	330.1	P
6900013		0.948	2.44	323.5	P
6900015		0.948	2.48	329.3	P
6900017		0.948	2.46	326.1	P
6900019		0.948	2.65	329.0	P
6900021		0.948	2.39	327.3	P
6900023		0.948	2.43	335.1	P
6900025		0.948	2.47	327.6	P
6900027		0.948	2.63	328.7	P
6900029		0.948	2.39	329.7	P
6900031		0.948	2.29	332.8	P
6900033		0.948	2.66	330.9	P
6900035		0.948	2.81	326.4	P
6900037		0.948	2.26	328.3	P
6900039		0.948	2.27	333.1	P
6900041		0.948	2.37	335.9	P
6900043		0.948	2.65	330.1	P
6900045		0.948	2.59	332.7	P
6900046	69002	0.948	2.5	332.5	P
6900047		0.948	2.41	334.8	P
6900048		0.948	2.42	336.0	P
6900049	69003	0.948	2.92	343.4	P
6900050		0.948	2.80	348.3	P

Table 5-4C (continued)

**MQC TEST RESULTS FOR GEONET USED TO MANUFACTURE
PRIMARY GEOCOMPOSITE (TENAX)**

PROPERTY	Polymer Density (g/cm ³)	Carbon Black Content (%)	Thickness (mil)
TEST STANDARD	ASTM D 1505	ASTM D 1603	ASTM D 5199
PROJECT SPECS.	≥ 0.93	2 to 3	≥ 200
TESTING FREQUENCY	1 per 100,000 ft ²		

GEONET ROLL NUMBER	LOT NO.	TEST RESULTS			PASS/FAIL (P/F)
0600003	60003	0.946	2.67	343	P
0600005		0.944	2.64	328	P
0600007		0.946	2.32	328	P
0600009		0.946	2.12	343	P
0600011		0.947	2.13	341	P
0600013		0.946	2.59	319	P
0600015		0.947	2.52	352	P
0600017		0.95	2.54	353	P
0600019		0.948	2.65	357	P
0600021		0.948	2.26	338	P
0600023		0.947	2.41	336	P
0600103		0.942	2.19	336	P
0600101		0.945	2.32	342	P
0600111		0.941	2.48	338	P
0600109		0.942	2.54	335	P
0600107		0.942	2.10	336	P
0600105		0.942	2.12	336	P
0600113		0.948	2.36	308	P
0600115		0.946	2.29	308	P
0600117		0.950	2.23	326	P
0600119		0.947	2.28	310	P
0600121		0.950	2.66	305	P
0600123		0.946	2.23	306	P
0600125		0.947	2.16	306	P
0600127		0.942	2.33	308	P
0600129		0.952	2.41	312	P
Area of Geonet Rolls: 1,069,250 ft ²					
No. of Geonet Rolls Tested: 53					
Test Frequency: 1 per 20,175 ft ²					

Table 5-5A

CQA AND MQC TEST RESULTS FOR SECONDARY GEOCOMPOSITE (SKAPS)

	CONSTRUCTION QUALITY ASSURANCE (CQA)							MANUFACTURING QUALITY CONTROL (MQC)			
PROPERTY	GEOTEXTILE					GEOCOMPOSITE		GEOCOMPOSITE			
	Mass per Unit Area ¹ (oz/yd ²)	Grab Strength ² (lb)	Trapezoidal Tear Strength ² (lb)	Apparent Opening Size (mm)	Permittivity (sec ⁻¹)	Transmissivity (m ² /sec)	Peel Strength ³ (lb/in)	Transmissivity (m ² /sec)	Peel Strength ³ (lb/in)		
TEST STANDARD	ASTM D 5261	ASTM D 4632	ASTM D 4533	ASTM D 4751	ASTM D 4491	ASTM D 4716	ASTM F 904	ASTM D 4716	GRI GC7		
PROJECT SPECS.	≥ 8	≥ 180	≥ 75	≤ 0.21	≥ 0.5	≥ 5.0x10 ⁻⁴ at 500 psf	≥ 1.5x10 ⁻⁴ at 13,500 psf	≥ 1.0	≥ 5.0x10 ⁻⁴ at 500 psf	≥ 1.5x10 ⁻⁴ at 13,500 psf	≥ 1.0
TESTING FREQUENCY	1 per 200,000 ft ² ⁴			1 per 500,000 ft ² ⁴		1 per 200,000 ft ² ⁴		1 per 100,000 ft ² ⁴			

GEOCOMPOSITE ROLL NUMBER	JOB NO.	CQA SAMPLE ID	TEST RESULTS								TEST RESULTS			PASS/FAIL (P/F)	
														CQA	MQC
1867001	1867										6.20x10 ⁻⁴	2.45x10 ⁻⁴	1.26		P
1867003		E2251-76-04	9.0	263	107.0	0.19	1.7	3.1x10 ⁻³	1.6x10 ⁻³	1.8				P	
1867010													1.47		P
1867020													1.31		P
1867030 ⁵													1.75		P
1867035											6.13x10 ⁻⁴	2.33x10 ⁻⁴			P
1867040													1.52		P
1867050													1.64		P
1867060													1.43		P
1867070											6.25x10 ⁻⁴	2.52x10 ⁻⁴	1.55		P
1867080													1.36		P
1867090													1.48		P
1867100													1.27		P
1867105											6.16x10 ⁻⁴	2.40x10 ⁻⁴			P
1867109		E2251-76-04	9.1	259	89.0			2.8x10 ⁻³	1.5x10 ⁻³	2.1				P	
1867110													1.59		P
1867120													1.45		P
1867130													1.70		P
1867140											6.27x10 ⁻⁴	2.61x10 ⁻⁴	1.51		P
1867150													1.66		P
1867160													1.32		P
1867170													1.58		P
1867175 ⁵											6.12x10 ⁻⁴	2.48x10 ⁻⁴			P
1867180													1.44		P
1867190													1.62		P
1867194		E2251-76-04	9.2	81	87.0	0.16	1.7	3.4x10 ⁻³	1.4x10 ⁻³	2.3				P	
1867200													1.53		P
1867210											6.19x10 ⁻⁴	2.59x10 ⁻⁴	1.76		P

Notes:

- 1 Smaller of top and bottom average mass per unit area.
2 Smaller of average value in machine or cross-machine direction.
3 Smaller of top and bottom peel strength.
4 A minimum of 1 test per lot was required.
5 This roll was used to perform interface friction tests.

Average Roll Area: 2,800 ft²
Total No. of Rolls: 216
Total Area of Rolls: 604,800 ft²

Table 5-5B

**MQC TEST RESULTS FOR GEOTEXTILE USED TO MANUFACTURE
SECONDARY GEOCOMPOSITE (SKAPS)**

PROPERTY	Mass per Unit Area (oz/yd ²)	Grab Strength ¹ (lb)	Trapezoidal Tear Strength ¹ (lb)	Puncture Strength (lb)	Burst Strength (lb/in ²)	Apparent Opening Size (mm)	Permittivity (sec ⁻¹)
TEST STANDARD	ASTM D 5261	ASTM D 4632	ASTM D 4533	ASTM D 4833	ASTM D 3786	ASTM D 4751	ASTM D 4491
PROJECT SPECS.	≥ 8	≥ 180	≥ 75	≥ 75	≥ 350	≤ 0.21	≥ 0.5
TESTING FREQUENCY	1 per 100,000 ft ²					1 per 250,000 ft ²	

GEOTEXTILE ROLL NUMBER	TEST RESULTS							PASS/FAIL (P/F)
1687.012	8.3	231	103	133	433	0.18	1.35	P
1687.005	8.2	228	103	133	433	0.18	1.35	P
1687.010	8.5	234	97	137	427	0.18	1.35	P
1687.025	8.5	226	101	131	434	0.18	1.39	P
1687.036	8.2	233	98	139	425	0.18	1.39	P
1687.030	8.6	230	98	139	425	0.18	1.39	P
1687.041	8.5	227	105	130	431	0.18	1.39	P
1687.050	8.6	225	100	136	429	0.18	1.36	P
1687.063	8.3	231	103	134	434	0.18	1.36	P
1687.076	8.3	232	96	140	430	0.18	1.34	P
1687.095	8.4	235	97	135	428	0.18	1.34	P
1687.085	8.3	233	99	132	435	0.18	1.34	P
1687.101	8.5	228	102	139	432	0.18	1.34	P
1687.105	8.1	231	102	139	432	0.18	1.37	P
Note: ¹ Smaller value in machine or cross-machine direction.								

Table 5-5C

**MQC TEST RESULTS FOR GEONET USED TO MANUFACTURE
SECONDARY GEOCOMPOSITE (SKAPS)**

PROPERTY	Polymer Density (g/cm ³)	Carbon Black Content (%)	Thickness (mil)
TEST STANDARD	ASTM D 1505	ASTM D 1603	ASTM D 5199
PROJECT SPECS.	≥ 0.93	2 to 3	≥ 200
TESTING FREQUENCY	1 per 100,000 ft ²		

GEONET ROLL NUMBER	JOB NO.	TEST RESULTS			PASS/FAIL (P/F)
1867001	1867	0.956	2.56	266	P
1867010		0.956	2.32	275	P
1867020		0.956	2.48	271	P
1867030		0.956	2.26	277	P
1867040		0.956	2.53	265	P
1867050		0.956	2.31	273	P
1867060		0.956	2.60	267	P
1867070		0.956	2.42	278	P
1867080		0.956	2.57	264	P
1867090		0.956	2.27	274	P
1867100		0.956	2.62	268	P
1867110		0.956	2.54	276	P
1867120		0.956	2.63	270	P
1867130		0.956	2.35	278	P
1867140		0.956	2.58	269	P
1867150		0.956	2.37	273	P
1867160		0.956	2.61	266	P
1867170		0.956	2.49	277	P
1867180		0.956	2.55	267	P
1867190		0.956	2.39	274	P
1867200		0.956	2.59	265	P
1867210		0.956	2.51	276	P
Area of Geonet Rolls:		604,800	ft ²		
No. of Geonet Rolls Tested:		22			
Test Frequency: 1 per		27,491	ft ²		

Table 5-6

CQA AND MQC TEST RESULTS FOR NON-WOVEN GEOTEXTILE

	CONSTRUCTION QUALITY ASSURANCE (CQA)							MANUFACTURING QUALITY CONTROL (MQC)					
PROPERTY	Mass per Unit Area (oz/yd ²)	Grab Strength ¹ (lb)	Trapezoidal Tear Strength ¹ (lb)	Puncture Strength (lb)	Burst Strength (lb/in ²)	Apparent Opening Size (mm)	Permittivity (sec ⁻¹)	Mass per Unit Area (oz/yd ²)	Grab Strength ¹ (lb)	Trapezoidal Tear Strength ¹ (lb)	Puncture Strength (lb)	Apparent Opening Size (mm)	Permittivity (sec ⁻¹)
TEST STANDARD	ASTM D 5261	ASTM D 4632	ASTM D 4533	ASTM D 4833	ASTM D 3786	ASTM D 4751	ASTM D 4491	ASTM D 5261	ASTM D 4632	ASTM D 4533	ASTM D 4833	ASTM D 4751	ASTM D 4491
PROJECT SPECS.	≥ 8	≥ 180	≥ 75	≥ 75	≥ 350	≤ 0.21	≥ 0.5	≥ 8	≥ 180	≥ 75	≥ 75	≤ 0.21	≥ 0.5
TESTING FREQUENCY	1 per 100,000 ft ²							1 per 100,000 ft ²					

ROLL NUMBER	CQA SAMPLE ID	CQA TEST RESULTS										MQC TEST RESULTS					PASS/FAIL (P/F)	
		7.91	223	80	134	434	0.10	1.14	9.07	231	90	145	0.10	1.57	P	P	CQA	MQC
292	E2256-49-01																	
Note: ¹ Smaller value in machine or cross-machine direction.																		
Total No. of Rolls:		7																
Total Area of Rolls:		31,500 ft ²																

Table 5-7A

MINIMUM INTERFACE SHEAR STRENGTHS REQUIRED BY THE CQA DOCUMENTS

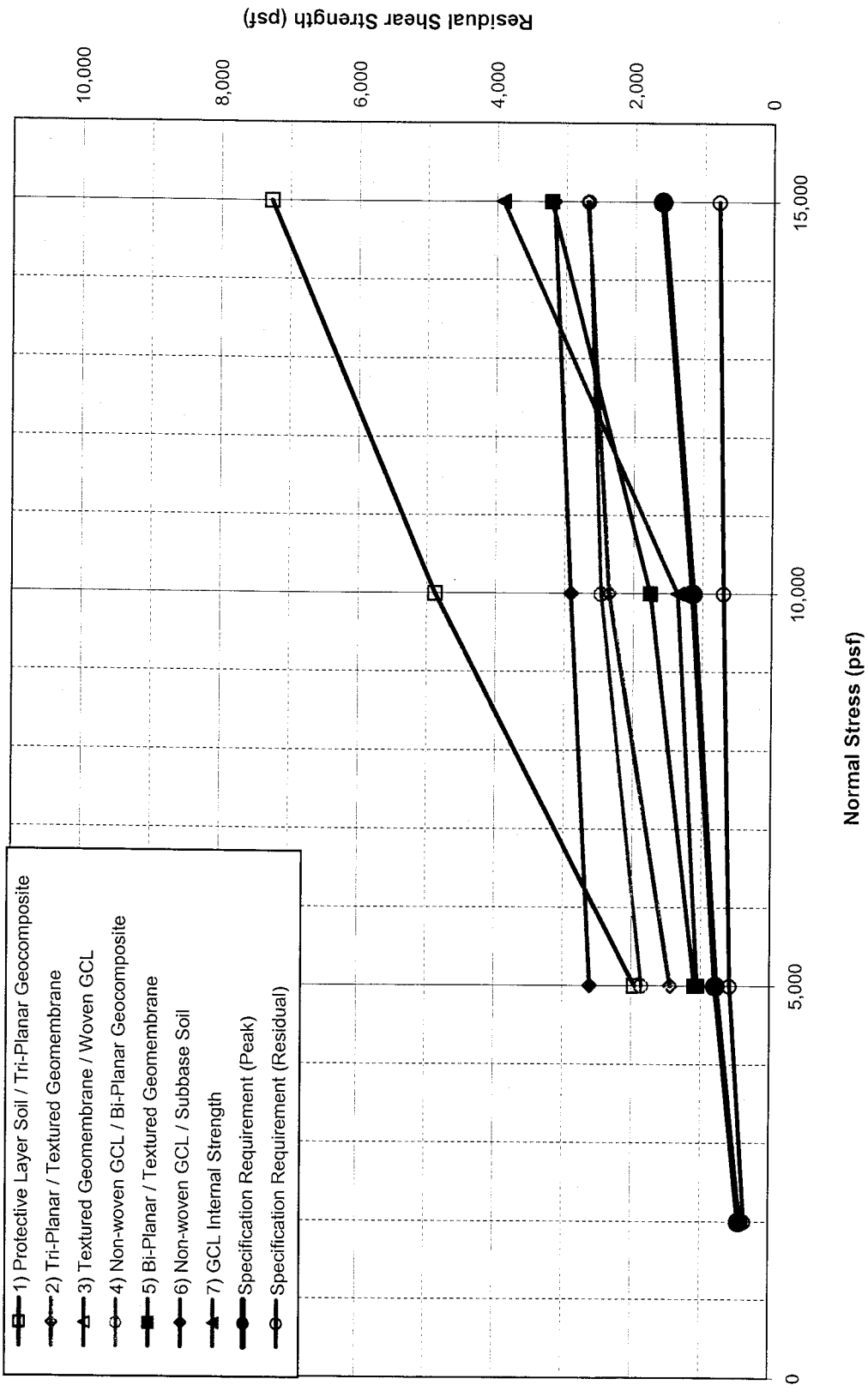
Normal Stress (psf)	Peak Shear Strength (psf)	Residual Shear Strength (psf)
2,000	429	356
5,000	783	579
10,000	1,139	699
15,000	1,603	786

Table 5-7B

INTERFACE AND INTERNAL SHEAR STRENGTH RESULTS FROM CQA AND MQC TESTS

	(1) Protective Layer Soil / Tri-Planar Geocomposite			(2) Tri-Planar / Textured Geomembrane		(3) Textured Geomembrane / GCL		(4) GCL / Bi-Planar Geocomposite		(5) Bi-Planar / Textured Geomembrane		(6) GCL / Subbase Soil		(7) GCL Internal Strength	
	Normal Stress (psf)	Peak Shear Strength (psf)	Residual Shear Strength (psf)	Peak Shear Strength (psf)	Residual Shear Strength (psf)	Peak Shear Strength Liner / Woven GCL (psf)	Residual Shear Strength Liner / Woven GCL (psf)	Peak Shear Strength Non-woven GCL / Geocom. (psf)	Residual Shear Strength Non-woven GCL / Geocom. (psf)	Peak Shear Strength (psf)	Residual Shear Strength (psf)	Peak Shear Strength Non-woven GCL / Subbase (psf)	Residual Shear Strength Non-woven GCL / Subbase (psf)	Peak Shear Strength (psf)	Residual Shear Strength (psf)
MQC	5,000	2,155	1,951	3,132	1,297	2,901	913	1,544	1,298	2,282	1,095	2,175	2,601	1,584	1,051
	10,000	5,058	4,875	4,855	2,238	3,659	2,067	3,139	2,051	4,118	1,768	3,479	2,906	6,534	1,362
	15,000	7,272	7,260	7,204	3,218	4,546	2,617	5,017	2,780	7,584	3,344	4,888	3,173	7,567	3,913
CQA	5,000	2,714	2,639	2,354	1,439	2,702	1,015	2,230	1,858	2,380	1,090	1,567	1,099	5,052	701
	10,000	4,953	4,696	4,484	2,352	4,195	1,672	3,603	2,473	4,141	1,753	3,138	2,475	6,118	2,861
	15,000	6,877	6,865	6,465	2,692	5,945	3,255	4,142	2,676	7,315	3,210	6,057	4,454	8,297	2,636

Figure 5-2



6. CONSTRUCTION QUALITY ASSURANCE -- LEACHATE COLLECTION SYSTEM

6.1 General

The leachate management system is comprised of the leachate collection, transmission, and storage systems. The construction of the initial leachate transmission and storage systems for Phase 1 development of the OHDF landfill was detailed in Cell 1A Certification Report. This section only includes CQA activities performed during construction of the leachate collection system in Cell 2.

The leachate collection system in Cell 2 consists of a primary and a secondary leachate collection system. The primary leachate collection system included 6-in diameter SDR 11 HDPE perforated leachate collection pipe surrounded by gravel aggregate and geotextile filter fabric at the toe of the perimeter berms on the north and east sides of Cell 2. The leachate collection pipe was provided with two rows of ½-in perforations in the bottom 1/3 of the pipe section. Granular drainage materials meeting the requirements of #4 stone (per ASTM D 448) was used as the gravel aggregate. An 8-oz/yd² needle-punched, non-woven geotextile was used as the filter fabric. Four (4) cleanouts were installed along the inside slope of the perimeter berm in Cell 2 to maintain the leachate collection system piping. The cleanouts were constructed using 6-in diameter SDR 11 HDPE pipe and were finished with a blind flange. The secondary leachate collection system included an additional 6-ft wide secondary geocomposite layer at the toe of the perimeter berm on the north and east sides of Cell 2.

The Cell 2 sump included gravel beds covered with geotextile separator fabric and three sump risers. The gravel beds for the primary and secondary sumps were separated by the primary liner system. Granular drainage materials meeting the requirements for #4 stone (per ASTM D 448) were used in the 1.5-ft to 3-ft thick drainage beds. The drainage beds were separated from the overlying liner protective layer by an 8-oz/yd² needle-punched, non-woven geotextile separator fabric. Two primary and one secondary sump risers were installed in the Cell 2 sump. The sump risers were constructed using 48-in diameter SDR 32.5 HDPE pipe and included a 2-in thick base plate and a bolted flanged top lid. Each sump riser was provided with perforations in the bottom 1-ft and a 20-ft long, 8-in diameter, SDR 11 HDPE perforated collection pipe. The primary sump risers were connected to the secondary sump riser using a 3-in diameter SDR 11 HDPE overflow pipe with a 3-in gate valve in accordance with the Construction Drawings.

The Cell 2 sump area included a 2-ft thick compacted low permeability soil layer below the geosynthetic layers. The low permeability soil layer was placed, compacted, and tested during the construction of the landfill perimeter berms as part of the Cell 1 construction as discussed in Cell 1A Certification Report. The top surface of the low permeability soil layer was initially over-built to shed water. The top surface of the low

permeability layer was only graded as part of the Cell 2 construction. The geosynthetics in the sump area were installed as discussed in Section 5.

Leachate from Cell 2 will be collected in the leachate collection system at the toe of the perimeter berm and will gravity flow to the Cell 2 sump. Leachate will be pumped from the sump risers through the leachate transmission line to the leachate storage area. To control the pumping and transfer of leachate, a sump control panel was installed as part of the leachate system in Cell 2.

GeoSyntec's CQA personnel monitored the construction of the leachate collection system. The field monitoring and testing activities performed by the CQA personnel during construction of the leachate collection system are discussed below. After construction of the leachate collection system was complete, the collection pipe was flushed out by pumping water from a water truck into the cleanout pipes located furthest from the sump. This ensured that the leachate collection system piping was free flowing.

6.2 HDPE Pipe

All pipes used in the construction of the leachate collection system were SDR 11 HDPE pipes except for the sump risers, which were constructed using SDR 32.5 HDPE pipes. The MQC certificates for the HDPE pipes were reviewed by the CQA personnel and were found to be in compliance with the requirements of the CQA Documents.

HDPE pipe sections were joined using butt-fusion welding and electro fusion coupler techniques. CQA personnel periodically monitored the butt-fusion welding techniques to ensure that industry-accepted procedures were used during construction. CQA personnel also verified the diameter of and perforation details (size, number of rows, orientation) for the different pipes used in the leachate collection system.

6.3 Granular Drainage Materials

Granular drainage materials meeting the requirements of #4 stone (per ASTM D 448) were used in Cell 2 leachate collection system and the leachate sump. The #4 stone was supplied by Conrad Yelvington, Florida.

The QC certificates and test results were reviewed by CQA personnel and were found to be in compliance with the CQA Documents. The hydraulic conductivity (per ASTM D 2434) of the #4 stone was measured to be 59 cm/sec, which exceeded the CQA Documents requirement of 10 cm/sec. A carbonate content test (per ASTM D 3042) was also performed on the #4 stone granular drainage materials during the QC testing. The #4 stone used in construction of the leachate collection system was found to be almost insoluble (less than 2 percent soluble) to 6N hydrochloric acid used in the test.

CQA personnel periodically monitored the placement of the granular drainage material to ensure (i) the underlying geosynthetics were not damaged; (ii) the perforated pipes were properly surrounded by the drainage materials and the geotextile; and (iii) the drainage materials were placed in accordance with the requirements of the CQA Documents.

6.4 Pressure Testing

The leachate transmission line between the Cell 2 sump and leachate transmission manhole no. 2 (MH-2) was pressure tested to detect any leaks or defective pipe joints.

The hydrostatic pressure testing was performed by pressurizing the pipe using the sump pump. The leachate transmission line segment was filled with water and pressurized. The hydrostatic pressure was maintained for at least 1 hour. No drop in the hydrostatic pressure was observed.

6.5 Sump Pumps and Control Panel

Leachate collected in the leachate sumps will be extracted and pumped to the leachate storage area by two 7.5-hp electric Tsurumi dewatering pumps located in the primary sump risers and one 2-hp electric Tsurumi dewatering pump located in the secondary sump riser. The pumps are controlled by a control panel located at the Cell 2 sump near the top of the sump risers. The sump pumps and the associated control panel were provided by Sligo Systems, Inc. (Sligo), Ormond Beach, Florida.

The following tests were performed after installation of the pumps and control system at the Cell 2 sump area to confirm proper operation of the pumps and pump control panel.

- Sump pumps were tested in place by flooding the Cell 2 sump. Each pump was connected to a piping assembly containing a pressure gauge, meter valve, and a flow meter. The pumps were turned on and the pressure and flow rate of each pump was recorded. The pressure and flow rate data for each pump was compared to the pump curves provided by Sligo; and
- Transducer settings were checked to confirm that the pumps and alarms were activating correctly.

7. CONSTRUCTION QUALITY ASSURANCE - OTHER CONSTRUCTION ACTIVITIES

7.1 Overview

GeoSyntec provided CQA monitoring, testing and documentation for miscellaneous activities associated with the development and ongoing operation of the OHDF. The CQA activities included monitoring of:

- Abandonment of piezometers (DP-3 and DP-4) within footprint of Cell 3; and
- construction of Cell 2 maintenance road.

The results of the density tests for the Cell 2 maintenance road are not included in this certification report but will be made available upon request.

7.2 Abandonment of Piezometers

To accomodate construction operations for Cell 2, two piezometers installed as a part of the hydrogeologic site investigation were abandoned. These piezometers are used only for semi-annual groundwater elevations and are not part of the facilities water quality monitoring system. The permit states that the piezometers will be abandoned as necessary for site construction. The two piezometers located within the Cell 3 footprint were abandoned by N.E.T Drilling, Sefner, Florida. GeoSyntec monitored the abandonment activities. The Piezometers were abandoned by grouting using a tremie pipe set at the bottom of the piezometer. The protective casings were removed and the piezometer casing was cut out approximately 3-ft below the ground surface.

7.3 Construction of Cell 2 Maintenance Road

Limerock was placed as the base course for the Cell 2 maintenance road. A 10-inch thick layer of limerock base course was placed and compacted on top of the landfill perimeter berm on the east and north sides of Cell 2.

The limerock for the project was supplied by Rinker in Orlando, Florida. CQA personnel periodically monitored the placement and compaction of the limerock base course and ensured compliance with the CQA Documents. The limerock was placed in two lifts and compacted in accordance with the CQA Documents. CQA personnel measured the density and percent compaction of the limerock base course at a frequency of one test per 200 linear feet per lift in accordance with the CQA Documents.

8. CONCLUSIONS

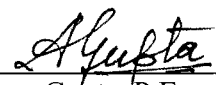
Observation of the construction of Cell 2 at the OHDF was performed by GeoSyntec during the period of 7 December 2005 to 17 April 2006. During this time, CQA personnel monitored the installation of the following components of Cell 2:

- earthwork (Cell 2 subgrade, liner subbase, intercell berms, sump area, grading of low permeability soil layer in sump, and protective soil layer);
- geosynthetics in Cell 2;
- leachate collection system (Cell 2 leachate collection system and leachate sump)

During construction of the above components, CQA personnel verified that performance and conformance testing was performed at the frequencies required by the CQA Documents and that the installation met or exceeded the requirements of the CQA Documents. CQA personnel also verified that conditions or materials identified as not conforming to the CQA Plan were replaced, repaired, and/or retested, as described in this report.

The results of the CQA activities undertaken by GeoSyntec as described in this report indicate that Cell 2 was constructed in accordance with the CQA Documents and the solid waste permit issued for the OHDF.


Kirk Wills
CQA/Project Manager

 4/19/06
Ayushman Gupta, P.E.
CQA Engineer-of-Record

GEOSYNTEC CONSULTANTS

Waste Services Inc.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT	J.E.D. Landfill Solid Waste Facility		
LOCATION:	Halopaw, Florida	PROJECT NO.:	FQ0852
DESCRIPTION	Cell 2 Construction	TASK NO.:	1
		DATE:	9 Day 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION MOISTURE RANGE LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area "B" MATERIAL TYPE Silty Sand CORRECTION FACTOR Y = N/A

NUCLEAR GAUGE TYPE Troxler 3430 GAUGE SERIAL 22295 QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 1	East side Cell 2 at toe-S	8	1	GF-2-2	12.5	101.0	4.6	102.6	98.1	97.1%	PASS				
DT 2	East side Cell 2 at toe-S	8	1	GF-2-2	12.5	101.0	5.1	104.6	99.5	98.5%	PASS				
DT 3	50' West of East toe-S	8	1	GF-2-2	12.5	101.0	4.9	102.4	97.6	96.6%	PASS				
DT 4	50' West of East toe-S	8	1	GF-2-2	12.5	101.0	5.1	105.3	101.2	100.2%	PASS				
DT 5	100' West of East toe-S	8	1	GF-2-2	12.5	101.0	5.1	105.3	100.2	99.2%	PASS				
DT 6	50' East of West haul road	8	1	GF-2-2	12.5	101.0	5.2	103.6	98.5	97.5%	PASS				
DT 7	50' East of W haul road	8	1	GF-2-2	12.5	101.0	5.1	106.2	101.1	100.1%	PASS				
DT 8	100' East of W haul road	8	1	GF-2-2	12.5	101.0	5.2	106.4	101.3	100.3%	PASS				
DT 9	50' West of East toe-N	8	1	GF-2-2	12.5	101.0	5.8	106.6	100.8	99.8%	PASS				
DT 10	100' West of East toe-N	8	1	GF-2-2	12.5	101.0	6.1	108.1	101.9	100.9%	PASS				
DT 11	100' East of W haul road	8	1	GF-2-2	12.5	101.0	6.1	107.1	101.0	100.0%	PASS				
DT 12	50' East of W haul road-N	8	1	GF-2-2	12.5	101.0	7.7	104.1	96.7	95.7%	PASS				
DT 13	50' East of W haul road-N	8	1	GF-2-2	12.5	101.0	9.1	110.1	100.9	99.9%	PASS				
DT 14	100' East of W haul road-N	8	1	GF-2-2	12.5	101.0	4.8	104.9	100.1	99.1%	PASS				
DT 15	50' West of East toe-N	8	1	GF-2-2	12.5	101.0	5.4	107.2	101.7	100.7%	PASS				

COMMENTS: Material is being taken from the top five foot of the Borrow Area starting on the North side berm in Borrow Area # B-2 Proctor GF-2-2 being used for fill at a depth of 5'

GEOSYNTEC CONSULTANTS

Waste Services Inc.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT: J.E.D. Landfill Solid Waste Facility
 LOCATION: Halowpaw, Florida
 DESCRIPTION: Cell 2 Construction
 PROJECT NO.: FQ0852 TASK NO.: 1
 DATE: 9 Day JANUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION MOISTURE RANGE LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area "B" MATERIAL TYPE Silty Sand CORRECTION FACTOR Y = N/A

NUCLEAR GAUGE TYPE Troxler 3430 GAUGE SERIAL 22295 QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 16	East side Cell 2 at toe-S	8	1	GF-2-2	12.5	101.0	5.5	108.2	102.6	101.6%	PASS				
DT 17	East side Cell 2 at toe-S	8	1	GF-2-2	12.5	101.0	9	111.4	102.1	101.1%	PASS				
DT 18	50 ' West of East toe-S	8	1	GF-2-2	12.5	101.0	5.5	108.4	102.8	101.8%	PASS				
DT 19	50 ' West of East toe-S	8	1	GF-2-2	12.5	101.0	9.6	112.2	102.4	101.4%	PASS				
DT 20	100' West of East toe -S	8	1	GF-2-2	12.5	101.0	11	111.8	100.7	99.7%	PASS				
DT 21	50' East of West haul road	8	1	GF-2-2	12.5	101.0	4.9	105.2	100.2	99.2%	PASS				
DT 22	50' East of W haul road	8	1	GF-2-2	12.5	101.0	5.7	107.2	101.4	100.4%	PASS				
DT 23	100' East of W haul road	8	1	GF-2-2	12.5	101.0	5.2	106.4	101.3	100.3%	PASS				
DT 24	50' West of East toe-N	8	1	GF-2-2	12.5	101.0	8.2	109.2	101.0	100.0%	PASS				
DT 25	20 ' East of Haul Road	8	1	GF-2-3	14.0	105.0	7.8	110.7	102.7	97.8%	PASS				
DT 26	100' East of W haul road	8	1	GF-2-2	12.5	101.0	6.4	104.4	98.1	97.1%	PASS				
DT 27	50' East of W haul road-N	8	1	GF-2-2	12.5	101.0	5.1	104.1	99.0	98.0%	PASS				
DT 28	50' East of W haul road-N	8	1	GF-2-2	12.5	101.0	6.8	109.2	102.2	101.2%	PASS				
DT 29	100' East of W haul road-N	8	1	GF-2-2	12.5	101.0	9.1	107	98.1	97.1%	PASS				
DT 30	50 ' West of East toe-N	8	1	GF-2-2	12.5	101.0	5.2	108.7	99.6	98.6%	PASS				

COMMENTS: Material is being taken from the top five foot of the Borrow Area starting on the North side berm in Borrow Area # B-2 Proctor GF-2-2 being used for fill at a depth of 5' (Drive Cylinder DR-1 taken on sample DT-25)

GEOSYNTEC CONSULTANTS

Waste Services Inc.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT J.E.D. Landfill Solid Waste Facility PROJECT NO.: FQ0852 TASK NO.: 1
 LOCATION: Halowpaw, Florida
 DESCRIPTION: Cell 2 Construction DATE: 10 Day JANUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION MOISTURE RANGE n/a LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area "B" MATERIAL TYPE Silty Sand CORRECTION FACTOR Y = N/A

NUCLEAR GAUGE TYPE Troxler 3430 GAUGE SERIAL 22295 QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FIELD TEST RESULTS						RETEST		
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	RETEST	
														PASS	FAIL
DT 31	50' East Haul Road	8	1	GF-2-3	14.0	105.0	6.7	107.8	101.0	96.2%	PASS				
DT 32	100' East of Haul Road	8	1	GF-2-3	14.0	105.0	6.8	110.3	103.3	98.4%	PASS				
DT 33	100' East of Haul Road	8	1	GF-2-3	14.0	105.0	7.1	111.5	104.1	99.1%	PASS				
DT 34	100' East of Haul Road	8	1	GF-2-3	14.0	105.0	12.4	113.7	101.2	96.4%	PASS				
DT 35	100' East of Haul Road	8	1	GF-2-2	12.5	101.0	5.4	102.5	97.2	96.2%	PASS				
DT 36	100' East of Haul Road	8	1	GF-2-3	14.0	105.0	6.4	107.1	100.7	95.9%	PASS				
DT 37	75' East of Haul Road	8	1	GF-2-3	14.0	105.0	5.8	107.5	101.6	96.8%	PASS				
DT 38	10' East of Haul road	8	1	GF-2-3	14.0	105.0	7.7	111.2	103.2	98.3%	PASS				
DT 39	10' East of Haul road	8	1	GF-2-3	14.0	105.0	6.9	107.2	100.3	95.5%	PASS				
DT 40	10' East of Haul road	8	1	GF-2-3	14.0	105.0	6.4	111.6	104.9	99.9%	PASS				
DT 41	10' East of Haul road	8	1	GF-2-3	14.0	105.0	7.4	110.9	103.3	98.4%	PASS				
DT 42	50' East Haul Road	8	1	GF-2-3	14.0	105.0	5.3	109.3	103.8	98.9%	PASS				
DT 43	50' East Haul Road	8	1	GF-2-3	14.0	105.0	8.8	111.1	102.1	97.2%	PASS				
DT 44	75' East of Haul Road	8	1	GF-2-3	14.0	105.0	6.8	111.3	104.2	99.2%	PASS				
DT 45	75' East of Haul Road	8	1	GF-2-3	14.0	105.0	6.1	108.4	102.2	97.3%	PASS				

COMMENTS: Material is being taken from the top ten foot of the Borrow Area starting on the North side berm in Borrow Area # B-2. Proctor GF-2-2 being used for fill at a depth of 5' GF-2-3 being used for material taken at a depth of 5 feet in Borrow Area B3.

GEOSYNTEC CONSULTANTS

Waste Services Inc.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. Landfill Solid Waste Facility

LOCATION:

Halowpaw, Florida

DESCRIPTION

Cell 2 Construction

PROJECT NO.: FQ0852 TASK NO.: 1

DATE: 10 Day JANUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION MOISTURE RANGE n/a LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area "B" MATERIAL TYPE Silty Sand CORRECTION FACTOR Y = N/A

NUCLEAR GAUGE TYPE Troxler 3430 GAUGE SERIAL 22295 QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS						RETEST		
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	RETEST	
														PASS	FAIL
DT 46	120' East Haul Road	8	1	GF-2-3	14.0	105.0	6.1	108.4	102.2	97.3%	PASS				
DT 47	120' East Haul Road	8	1	GF-2-3	14.0	105.0	5.5	109.3	103.6	98.7%	PASS				
DT 48	120' East Haul Road	8	1	GF-2-3	14.0	105.0	6.4	110.1	103.5	98.6%	PASS				
DT 49	150' East of Haul Road	8	1	GF-2-3	14.0	105.0	11	111.6	100.5	95.7%	PASS				
DT 50	75' East of Haul Road	8	1	GF-2-3	14.0	105.0	8.9	111.4	102.3	97.4%	PASS				
DT 51	150' East of Haul Road	8	1	GF-2-2	12.5	101.0	8.7	105.7	97.2	96.2%	PASS				
DT 52	150' East of Haul Road	8	1	GF-2-3	14.0	105.0	5.3	107.3	101.9	97.0%	PASS				
DT 53	175' East of Haul road	8	1	GF-2-3	14.0	105.0	4.5	105.9	101.3	96.5%	PASS				
DT 54	200' East of Haul road	8	1	GF-2-2	12.5	101.0	5.5	103.9	98.5	97.5%	PASS				
DT 55	10' East Perimeter Toe	8	1	GF-2-3	14.0	105.0	6.1	106.3	100.1	95.3%	PASS				
DT 56	10' East Perimeter Toe	8	1	GF-2-2	12.5	101.0	7.3	104.6	97.5	96.5%	PASS				
DT 57	10' East Perimeter Toe	8	1	GF-2-3	14.0	105.0	6.7	106.6	99.9	95.1%	PASS				
DT 58	175' East of Haul road	8	1	GF-2-3	14.0	105.0	7.6	110.2	102.4	97.5%	PASS				
DT 59	175' East of Haul road	8	1	GF-2-2	12.5	101.0	6.5	105.4	99.0	98.0%	PASS				
DT 60	150' East of Haul Road	8	1	GF-2-3	14.0	105.0	6.7	109.9	103.0	98.1%	PASS				

COMMENTS: Material is being taken from the top ten foot of the Borrow Area starting on the North side berm in Borrow Area # B-2. Proctor GF-2-2 being used for fill at a depth of 5' GF-2-3 being used for material taken at a depth of 5 feet in Borrow Area B3. (Drive Cylinder DR-2 taken on sample DT-50)

Field Nuclear Density Test Log

GEOSYNTEC CONSULTANTS

Waste Services Inc.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. Landfill Solid Waste Facility

LOCATION:

Halowpaw, Florida

DESCRIPTION

Cell 2 Construction

PROJECT NO.: FQ0852 TASK NO.: 1

DATE: 10 Day JANUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION MOISTURE RANGE n/a LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area "B"

MATERIAL TYPE Silty Sand

CORRECTION FACTOR Y =

N/A

NUCLEAR GAUGE TYPE Troxler 3430 GAUGE SERIAL 22295

QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS						RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	RETEST PASS FAIL
DT 61	150' East of Haul Road	8	1	GF-2-3	14.0	105.0	5.2	107.9	102.6	97.7%	PASS			
DT 62	150' East of Haul Road	8	1	GF-2-3	14.0	105.0	5.4	107.9	102.4	97.5%	PASS			
DT 63	10' East Perimeter Toe	8	1	GF-2-3	14.0	105.0	6.2	108.4	102.1	97.2%	PASS			
DT 64	10' East Perimeter Toe	8	1	GF-2-3	14.0	105.0	5.7	107.7	101.9	97.0%	PASS			
DT 65	10' East Perimeter Toe	8	1	GF-2-3	14.0	105.0	6.5	109.8	103.1	98.2%	PASS			
DT 66	10' East Perimeter Toe	8	1	GF-2-3	14.0	105.0	7	109.2	102.1	97.2%	PASS			
DT 67	10' East Perimeter Toe	8	1	GF-2-3	14.0	105.0	6.6	109.1	102.3	97.4%	PASS			
DT 68	South limits of Cell 2	8	1	GF-2-3	14.0	105.0	6.5	112.5	105.6	100.6%	PASS			
DT 69	10' East Perimeter Toe	8	1	GF-2-2	12.5	101.0	8	105.6	97.7	96.7%	PASS			
DT 70	10' West of East toe	8	1	GF-2-3	14.0	105.0	6.4	108.2	101.7	96.9%	PASS			
DT 71	50' West of East toe	8	1	GF-2-3	14.0	105.0	5.1	107.4	102.2	97.3%	PASS			
DT 72	75' West of East toe	8	1	GF-2-3	14.0	105.0	5.6	106.3	99.9	95.1%	PASS			
DT 73	100' East of Haul road	8	1	GF-2-3	14.0	105.0	6.1	108.4	100.7	95.9%	PASS			
DT 74	50' East of Haul road	8	1	GF-2-2	12.5	101.0	7.4	105.6	98.3	97.3%	PASS			

COMMENTS:

Material is being taken from the top ten foot of the Borrow Area starting on the North side berm in Borrow Area # B-2. Proctor GF-2-2 being used for fill at a depth of 5' GF-2-3 being used for material taken at a depth of 5 feet in Borrow Area B3. (Drive Cylinder taken on Sample DT-74)

Field Nuclear Density Test Log



GeoSyntec Consultants

WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:

OSCEOLA COUNTY, FLORIDA

DESCRIPTION

CELL 2 CONSTRUCTION

PROJECT NO.:

FQ 0852

TASK NO.:

1

DATE:

16

Day

JANUARY

Month

2006

Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE

NA

LIFT THICKNESS COMPACTED

8-in

MATERIAL SOURCE:

Borrow Area B3

MATERIAL TYPE

SILTY SAND

CORRECTION FACTOR Y =

N/A

NUCLEAR GAUGE TYPE

Troxler 3430

GAUGE SERIAL

22295

QA ID

RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 78	50' S Limits of Cell 2	8	2	GF-2-3	14.0	105.0	5.9	113.1	106.8	101.7%					
DT 79	75' SW Limits of Cell 2	8	2	GF-2-3	14.0	105.0	5.6	110.7	104.8	99.8%					
DT 80	100' Center of Cell 2 S	8	2	GF-2-3	14.0	105.0	6.2	108.1	101.8	96.9%					
DT 81	150' Center of Cell 2 S	8	2	GF-2-3	14.0	105.0	5.9	104.9	99.1	94.3%	FAIL		DT-82	PASS	
DT 82	175' SE Limits of Cell 2	8	2	GF-2-3	14.0	105.0	6.4	110.7	104.0	99.1%					
DT 83	200' E Limits Cell 2	8	2	GF-2-3	14.0	105.0	6.4	107.4	100.9	96.1%					
DT 84	250' SE Limits of Cell 2	8	2	GF-2-3	14.0	105.0	6.1	109.4	103.1	98.2%					
DT 85	300' E Limits of Cell 2	8	2	GF-2-3	14.0	105.0	5.4	109.0	103.4	98.5%					
DT 86	50' S Limits of Cell 2	8	2	GF-2-3	14.0	105.0	6.5	108.9	102.3	97.4%					
DT 87	75' SW Limits of Cell 2	8	2	GF-2-3	14.0	105.0	6.1	106.8	100.7	95.9%					
DT 88	100' Center of Cell 2 S	8	2	GF-2-3	14.0	105.0	5.9	108.5	102.5	97.6%					
DT 89	150' Center of Cell 2 S	8	2	GF-2-3	14.0	105.0	6.9	109.9	102.8	97.9%					
DT 90	175' SE Limits of Cell 2	8	2	GF-2-3	14.0	105.0	6.2	106.6	100.4	95.6%					
DT 91	200' E Limits Cell 2	8	2	GF-2-3	14.0	105.0	5.5	110.6	104.8	99.8%					
DT 92	250' SE Limits of Cell 2	8	2	GF-2-3	14.0	105.0	4.7	103.3	98.7	94.0%	FAIL		DT-93		FAIL

COMMENTS:

Field Nuclear Density Test Log



GeoSyntec Consultants

WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:

OSCEOLA COUNTY, FLORIDA

DESCRIPTION

CELL 2 CONSTRUCTION

PROJECT NO.:

FQ 0852

TASK NO.:

1

DATE:

16 Day

JANUARY

Month

2006

Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE

NA

LIFT THICKNESS COMPACTED

8-in

MATERIAL SOURCE: Borrow Area B3

MATERIAL TYPE

SILTY SAND

CORRECTION FACTOR Y =

N/A

NUCLEAR GAUGE TYPE Troxler 3430

GAUGE SERIAL 22295

QA ID

RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS		FILED TEST RESULTS							RETEST		
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 93	262' E HR South Cell 2	6	2	GF-2-3	14.0	105.0	6.3	105.2	99.0	94.3%		FAIL	DT-94	PASS	
DT 94	270' E HR south Cell 2	6	2	GF-2-3	14.0	105.0	7.7	109.3	101.5	96.7%	PASS				
DT 95	50' W of Perm Berm toe S	6	2	GF-2-3	14.0	105.0	5.4	109.7	104.1	99.1%	PASS				
DT 96	75' SW Limits of Cell 2	6	2	GF-2-3	14.0	105.0	6.4	108.7	102.2	97.3%	PASS				
DT 97	100' Center of Cell 2 S	6	2	GF-2-3	14.0	105.0	5.7	109.0	103.1	98.2%	PASS				
DT 98	150' Center of Cell 2 S	6	2	GF-2-3	14.0	105.0	6.1	109.7	103.4	98.5%	PASS				
DT 99	175' SE Limits of Cell 2	6	2	GF-2-3	14.0	105.0	7.0	108.7	101.6	96.8%	PASS				
DT 100	200' E Limits Cell 2	6	2	GF-2-3	14.0	105.0	5.3	109.1	103.6	98.7%	PASS				
DT 101	250' SE Limits of Cell 2	6	2	GF-2-3	14.0	105.0	6.4	107.9	101.4	96.6%	PASS				
DT 102	300' E Limits of Cell 2	6	2	GF-2-3	14.0	105.0	6.0	107.8	101.7	96.9%	PASS				
DT 103	50' W of Perm Berm toe S	6	2	GF-2-3	14.0	105.0	6.7	111.5	104.5	99.5%	PASS				
DT 104	75' SW Limits of Cell 2	6	2	GF-2-3	14.0	105.0	9.4	110.9	101.4	96.5%	PASS				
DT 105	100' Center of Cell 2 S	6	2	GF-2-3	14.0	105.0	8.3	114.9	106.1	101.0%	PASS				
DT 106	150' Center of Cell 2 S	6	2	GF-2-3	14.0	105.0	14.6	118.8	103.7	98.7%	PASS				
DT 107	175' SE Limits of Cell 2	6	2	GF-2-3	14.0	105.0	13.7	118.7	104.4	99.4%	PASS				

COMMENTS: HR= Access Haul Road

Compaction fails on DT-93 area was re-rolled with compactor and retested. Drive Cylinder (DR-4) taken on DT-100)

Field Nuclear Density Test Log



GEOSYNTEC CONSULTANTS

WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:

OSCEOLA COUNTY, FLORIDA

DESCRIPTION

CELL 2 CONSTRUCTION

PROJECT NO.:

FQ 0852

TASK NO.:

1

DATE:

16 Day

JANUARY

Month

2006

Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE

NA

LIFT THICKNESS COMPACTED

8-in

MATERIAL SOURCE:

Borrow Area B3

MATERIAL TYPE

SILTY SAND

CORRECTION FACTOR Y =

N/A

NUCLEAR GAUGE TYPE

Troxler 3430

GAUGE SERIAL

22295

QA ID

RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 108	200' E Limits Cell 2	8	2	GF-2-3	14.0	105.0	10.5	111.7	101.1	96.3%	PASS				
DT 109	250' SE Limits of Cell 2	8	2	GF-2-3	14.0	105.0	12.9	118.4	104.9	99.9%	PASS				
DT 110	300' E Limits of Cell 2	8	2	GF-2-3	14.0	105.0	12.6	117.6	104.4	99.5%	PASS				
DT 111	50' W of Perm Berm toe S	8	2	GF-2-3	14.0	105.0	18.2	116.7	98.7	94.0%		FAIL	DT-112	FAIL	
DT 112	75' SW Limits of Cell 2	8	2	GF-2-3	14.0	105.0	13.6	112.1	98.7	94.0%		FAIL	DT-113	PASS	
DT 113	100'Center of Cell 2 S	8	2	GF-2-3	14.0	105.0	12.5	118.2	105.1	100.1%	PASS				
DT 114	150'Center of Cell 2 S	8	2	GF-2-3	14.0	105.0	9.0	113.7	104.3	99.3%	PASS				
DT 115	175' SE Limits of Cell 2	8	2	GF-2-3	14.0	105.0	7.3	109.5	102.1	97.2%	PASS				
DT 116	200' E Limits Cell 2	8	2	GF-2-3	14.0	105.0	10.5	111.6	101.0	96.2%	PASS				
DT 117	250' SE Limits of Cell 2	8	2	GF-2-3	14.0	105.0	11.9	116.2	103.8	98.9%	PASS				
DT 118	300' E Limits of Cell 2	8	2	GF-2-3	14.0	105.0	10.4	116.1	105.2	100.2%	PASS				
DT 119	50' W of Perm Berm toe S	8	2	GF-2-3	14.0	105.0	12.7	118.7	105.3	100.3%	PASS				
DT 120	75' SW Limits of Cell 2	8	2	GF-2-3	14.0	105.0	12.8	115.2	102.1	97.3%	PASS				
DT 121	100'Center of Cell 2 S	8	2	GF-2-3	14.0	105.0	14.4	117.0	102.3	97.4%	PASS				
DT 122	150'Center of Cell 2 S	8	2	GF-2-3	14.0	105.0	12.4	118.2	105.2	100.2%	PASS				

COMMENTS: Density Tests DT-111 and DT-112 failed due to compaction. Area was reworked with additional smooth drum rolling retested and passed.

Field Nuclear Density Test Log



WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT	J.E.D. SOLID WASTE FACILITY			
LOCATION:	OSCEOLA COUNTY, FLORIDA			
DESCRIPTION	CELL 2 CONSTRUCTION	DATE:	16	Day
			FQ 0852	TASK NO.:
			JANUARY	Month
			2006	Year

SPECIFICATION REQUIREMENTS: ASTM D 698		MOISTURE RANGE	NA	LIFT THICKNESS COMPACTED	8-in
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MATERIAL SOURCE:	Borrow Area B3	MATERIAL TYPE	SILTY SAND	CORRECTION FACTOR Y =	N/A
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NUCLEAR GAUGE TYPE	Troxler 3430	GAUGE SERIAL	22295	QA ID	RH
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[illegible]

COMMENTS: HR= Access Haul Road

Drive Cylinder (DR-5) taken on DT-125)



GEOSYNTEC CONSULTANTS

WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:

OSCEOLA COUNTY, FLORIDA

PROJECT NO.: FQ 0852 TASK NO.: 1

DESCRIPTION

CELL 2 CONSTRUCTION

DATE: 18 Day JANUARY 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE NA

LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3

MATERIAL TYPE SILTY SAND

CORRECTION FACTOR Y =

N/A

NUCLEAR GAUGE TYPE Troxler 3430

GAUGE SERIAL 22295

QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS						RETEST		
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 128	50' S Limits of Cell 2	8	2	GF-2-3	14.0	105.0	19.8	118.2	98.7	94.0%		FAIL	DT-129		FAIL
DT 129	62' SW Limits of Cell 2	8	2	GF-2-3	14.0	105.0	11.2	108.3	97.4	92.8%		FAIL	DT-130		FAIL
DT 130	68'SW Limit of Cell 2 S	8	2	GF-2-3	14.0	105.0	10.5	109.4	99.0	94.3%		FAIL	DT-131	PASS	
DT 131	70'SW Limits of Cell 2 S	8	2	GF-2-3	14.0	105.0	14.9	116.6	101.5	96.6%	PASS				
DT 132	105'Center Limits of Cell 2	8	2	GF-2-3	14.0	105.0	11.4	107.2	96.2	91.6%		FAIL	DT-133		FAIL
DT 133	108' Center Limits Cell 2	8	2	GF-2-3	14.0	105.0	12.7	108.3	96.1	91.5%		FAIL	DT-134	PASS	
DT 134	109' CenterLimits of Cell 2	8	2	GF-2-3	14.0	105.0	12.9	113.3	100.4	95.6%	PASS				
DT 135	200' SE Limits of Cell 2	8	2	GF-2-3	14.0	105.0	11.5	109.5	98.2	93.5%		FAIL	DT-136	PASS	
DT 136	202' SE Limits of Cell 2	8	2	GF-2-3	14.0	105.0	9.8	116.6	106.2	101.1%	PASS				
DT 137	50' SW Limits of Cell 2	8	3	GF-2-3	14.0	105.0	9.7	115.6	105.4	100.4%	PASS				
DT 138	100'Center of Cell 2 S	8	3	GF-2-3	14.0	105.0	9.4	111.6	102.0	97.2%	PASS				
DT 139	150'Center of Cell 2 S	8	3	GF-2-3	14.0	105.0	10.2	110.8	100.5	95.8%	PASS				
DT 140	175' SE Limits of Cell 2	8	3	GF-2-3	14.0	105.0	6.8	108.9	102.0	97.1%	PASS				
DT 141	200' E Limits Cell 2	8	3	GF-2-3	14.0	105.0	8.7	111.6	102.7	97.8%	PASS				
DT 142	250' SE Limits of Cell 2	8	3	GF-2-3	14.0	105.0	7.4	107.8	100.4	95.6%	PASS				

COMMENTS: Area's that fail density were retested after tests taken on 1-17-06 which failed. Areas were reworked and retested till passing results were achieved.

Field Nuclear Density Test Log



GeoSyntec Consultants

WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:

OSCEOLA COUNTY, FLORIDA

DESCRIPTION

CELL 2 CONSTRUCTION

PROJECT NO.: FQ 0852

TASK NO.: 1

DATE: 18

Day

JANUARY

Month

2006

Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE

NA

LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE:

Borrow Area B3

MATERIAL TYPE

SILTY SAND

CORRECTION FACTOR Y =

N/A

NUCLEAR GAUGE TYPE Troxler 3430

GAUGE SERIAL 22295

QA ID

RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS						RETEST		
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	RETEST	
														PASS	FAIL
DT 143	10' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	10.4	114.3	103.5	98.6%	PASS				
DT 144	10' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	7.7	110.6	102.7	97.8%	PASS				
DT 145	50' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	6.8	111.9	104.8	99.8%	PASS				
DT 146	50' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	7.0	113.4	106.0	100.9%	PASS				
DT 147	50' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	8.3	110.4	101.9	97.1%	PASS				
DT 148	75' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	8.8	111.2	102.2	97.3%	PASS				
DT 149	75' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	5.3	110.3	104.7	99.8%	PASS				
DT 150	75' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	4.8	106.1	101.2	96.4%	PASS				
DT 151	75' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	6.1	111.2	104.8	99.8%	PASS				
DT 152	100' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	6.5	108.6	102.0	97.1%	PASS				
DT 153	100' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	7.2	107.8	100.6	95.8%	PASS				
DT 154	100' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	7.2	113.1	105.5	100.5%	PASS				
DT 155	100' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	7.5	108.0	100.5	95.7%	PASS				
DT 156	150' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	11.7	118.2	105.8	100.8%	PASS				
DT 157	150' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	7.1	111.2	103.8	98.9%	PASS				

COMMENTS: Lift three placed 1-18-06 and tested Drive Cylinder taken on DT-150 (DR-6)

Field Nuclear Density Test Log



GEOSYNTEC CONSULTANTS

WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:

OSCEOLA COUNTY, FLORIDA

PROJECT NO.: FQ 0852 TASK NO.: 1

DESCRIPTION

CELL 2 CONSTRUCTION

DATE: 18 Day JANUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE NA

LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3

MATERIAL TYPE SILTY SAND

CORRECTION FACTOR Y =

N/A

NUCLEAR GAUGE TYPE Troxler 3430

GAUGE SERIAL 22295

QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS						RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	RETEST PASS FAIL
DT 158	150' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	6.8	109.3	102.3	97.5%	PASS			
DT 159	150' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	5.2	107.3	102.0	97.1%	PASS			
DT 160	200' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	6.0	108.0	101.9	97.0%	PASS			
DT 161	200' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	5.2	105.7	100.5	95.7%	PASS			
DT 162	200' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	7.9	108.5	100.6	95.8%	PASS			
DT 163	200' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	11.4	114.2	102.5	97.6%	PASS			
DT 164	200' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	6.9	108.2	101.2	96.4%	PASS			
DT 165	250' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	7.3	108.4	101.0	96.2%	PASS			
DT 166	250' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	6.3	111.5	104.9	99.9%	PASS			
DT 167	250' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	7.5	108.1	100.6	95.8%	PASS			
DT 168	170' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	5.9	107.9	101.9	97.0%	PASS			
DT 169	120' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	5.5	105.4	99.9	95.1%	PASS			
DT 170	60' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	8.0	108.5	100.5	95.7%	PASS			
DT 171	70' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	6.5	109.5	102.8	97.9%	PASS			
DT 172	100' E of Access Haul Road	8	3	GF-2-3	14.0	105.0	9.1	109.7	100.5	95.8%	PASS			

COMMENTS: Lift three placed 1-18-06 and tested

Field Nuclear Density Test Log



WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:	OSCEOLA COUNTY, FLORIDA	PROJECT NO.:	FO 0852	TASK NO.:	1
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DESCRIPTION	DATE	Day	Month	Year
CELL 2 CONSTRUCTION		18	JANUARY	2006

SPECIFICATION REQUIREMENTS: ASTM D 698	95% COMPACTION	MOISTURE RANGE	NA	LIFT THICKNESS	8-in COMPACTED
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MATERIAL SOURCE:	Borrow Area B3	MATERIAL TYPE	SILTY SAND	CORRECTION FACTOR Y =	N/A
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NUCLEAR GAUGE TYPE	Troxler 3430	GAUGE SERIAL	OA ID	RH
			22295	

[illegible]

COMMENTS: Lift three placed 1-18-06 and tested Drive Cylinder (DR-7) taken on sample DT-175



GEOSYNTEC CONSULTANTS

WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:

OSCEOLA COUNTY, FLORIDA

PROJECT NO.: FQ 0852 TASK NO.: 1

DESCRIPTION

CELL 2 CONSTRUCTION

DATE: 19 Day JANUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE NA

LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3

MATERIAL TYPE SILTY SAND

CORRECTION FACTOR Y =

N/A

NUCLEAR GAUGE TYPE Troxler 3430

GAUGE SERIAL 22295

QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS				FILED TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	RETEST		
														PASS	FAIL	
DT 176	50' E of Acees Haul Road	6	3	GF-2-3	14.0	105.0	8.4	112.8	104.1	99.1%	PASS					
DT 177	50' E of Acees Haul Road	6	3	GF-2-3	14.0	105.0	6.2	107.8	101.5	96.7%	PASS					
DT 178	50' E of Acees Haul Road	6	3	GF-2-3	14.0	105.0	5.9	106.7	100.8	96.0%	PASS					
DT 179	50' E of Acees Haul Road	6	3	GF-2-3	14.0	105.0	9.9	109.9	100.0	95.2%	PASS					
DT 180	100' E of Acees Haul Road	6	3	GF-2-3	14.0	105.0	4.7	105.3	100.6	95.8%	PASS					
DT 181	100' E of Acees Haul Road	6	3	GF-2-3	14.0	105.0	12.0	112.0	100.0	95.2%	PASS					
DT 182	100' E of Acees Haul Road	6	3	GF-2-3	14.0	105.0	10.7	112.7	101.8	97.0%	PASS					
DT 183	100' E of Acees Haul Road	6	3	GF-2-3	14.0	105.0	5.0	106.2	101.1	96.3%	PASS					
DT 184	150' E of Acees Haul Road	6	3	GF-2-3	14.0	105.0	5.9	105.7	99.8	95.1%	PASS					
DT 185	150' E of Acees Haul Road	6	3	GF-2-3	14.0	105.0	6.2	106.1	99.9	95.1%	PASS					
DT 186	150' E of Acees Haul Road	6	3	GF-2-3	14.0	105.0	4.7	105.8	101.1	96.2%	PASS					
DT 187	50' E of Acees Haul Road	6	4	GF-2-3	14.0	105.0	6.2	108.8	102.4	97.6%	PASS					
DT 188	75' E of Acees Haul Road	6	4	GF-2-3	14.0	105.0	4.9	109.1	104.0	99.1%	PASS					
DT 189	100' E of Acees Haul Road	6	4	GF-2-3	14.0	105.0	7.8	113.0	104.8	99.8%	PASS					
DT 190	150' E of Acees Haul Road	6	4	GF-2-3	14.0	105.0	6.3	109.1	102.6	97.7%	PASS					

COMMENTS: HR= Access Haul Road

Field Nuclear Density Test Log



GEOSYNTEC CONSULTANTS

WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:

OSCEOLA COUNTY, FLORIDA

PROJECT NO.: FQ 0852 TASK NO.: 1

DESCRIPTION

CELL 2 CONSTRUCTION

DATE: 19 Day JANUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE NA

LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3

MATERIAL TYPE SILTY SAND

CORRECTION FACTOR Y =

N/A

NUCLEAR GAUGE TYPE Troxler 3430 GAUGE SERIAL 22295

QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	RETEST	
														PASS	FAIL
DT 191	150' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	10.5	117.0	105.9	100.8%	PASS				
DT 192	50' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	10.7	116.3	105.1	100.1%	PASS				
DT 193	100' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	5.6	108.1	102.4	97.5%	PASS				
DT 194	50' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	10.6	113.3	102.4	97.6%	PASS				
DT 195	150' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	7.2	110.2	102.8	97.9%	PASS				
DT 196	50' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	9.5	116.3	106.2	101.2%	PASS				
DT 197	100' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	12.8	114.8	101.8	96.9%	PASS				
DT 198	150' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	17.7	118.9	101.0	96.2%	PASS				
DT 199	200' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	22.2	118.6	97.1	92.4%		FAIL	DT-215	PASS	
DT 200	250' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	16.4	112.7	96.8	92.2%		FAIL	DT-216	PASS	
DT 201	300' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	10.7	113.9	102.9	98.0%	PASS				
DT 202	300' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	7.1	113.0	105.5	100.5%	PASS				
DT 203	250' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	10.4	117.2	106.2	101.1%	PASS				
DT 204	150' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	15.0	111.6	97.0	92.4%		FAIL	DT-217	PASS	
DT 205	100' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	11.7	113.8	101.9	97.0%	PASS				

COMMENTS: HR= Access Haul Road

Drive Cylinder (DR-8) taken on sample DT-201)

Field Nuclear Density Test Log



WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION: OSCEOLA COUNTY, FLORIDA

PROJECT NO.:	FQ 0852	TASK NO.:	1
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DESCRIPTION	CELL 2 CONSTRUCTION
1.0000	1.0000
2.0000	2.0000
3.0000	3.0000
4.0000	4.0000
5.0000	5.0000
6.0000	6.0000
7.0000	7.0000
8.0000	8.0000
9.0000	9.0000
10.0000	10.0000
11.0000	11.0000
12.0000	12.0000
13.0000	13.0000
14.0000	14.0000
15.0000	15.0000
16.0000	16.0000
17.0000	17.0000
18.0000	18.0000
19.0000	19.0000
20.0000	20.0000
21.0000	21.0000
22.0000	22.0000
23.0000	23.0000
24.0000	24.0000
25.0000	25.0000
26.0000	26.0000
27.0000	27.0000
28.0000	28.0000
29.0000	29.0000
30.0000	30.0000
31.0000	31.0000
32.0000	32.0000
33.0000	33.0000
34.0000	34.0000
35.0000	35.0000
36.0000	36.0000
37.0000	37.0000
38.0000	38.0000
39.0000	39.0000
40.0000	40.0000
41.0000	41.0000
42.0000	42.0000
43.0000	43.0000
44.0000	44.0000
45.0000	45.0000
46.0000	46.0000
47.0000	47.0000
48.0000	48.0000
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81.0000	81.0000
82.0000	82.0000
83.0000	83.0000
84.0000	84.0000
85.0000	85.0000
86.0000	86.0000
87.0000	87.0000
88.0000	88.0000
89.0000	89.0000
90.0000	90.0000
91.0000	91.0000
92.0000	92.0000
93.0000	93.0000
94.0000	94.0000
95.0000	95.0000
96.0000	96.0000
97.0000	97.0000
98.0000	98.0000
99.0000	99.0000
100.0000	100.0000

DATE: 19 Day JANUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

NA	LIFT THICKNESS COMPACTED	8-in
NA	LIFT THICKNESS COMPACTED	8-in

MATERIAL SOURCE: Borrow Area B3

MATERIAL TYPE

SILTY SAND

CORRECTION FACTOR $Y =$

N/A

NUCLEAR GAUGE TYPE	Troxler 3430	GAUGE SERIAL	22295
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QA ID	RH
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1
10	1
11	1
12	1
13	1
14	1
15	1
16	1
17	1
18	1
19	1
20	1
21	1
22	1
23	1
24	1
25	1
26	1
27	1
28	1
29	1
30	1
31	1
32	1
33	1
34	1
35	1
36	1
37	1
38	1
39	1
40	1
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46	1
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62	1
63	1
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67	1
68	1
69	1
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72	1
73	1
74	1
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77	1
78	1
79	1
80	1
81	1
82	1
83	1
84	1
85	1
86	1
87	1
88	1
89	1
90	1
91	1
92	1
93	1
94	1
95	1
96	1
97	1
98	1
99	1
100	1

[illegible]

COMMENTS: HR= Access Haul Road



GEOSYNTEC CONSULTANTS

WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:

OSCEOLA COUNTY, FLORIDA

PROJECT NO.:

FQ 0852

TASK NO.:

1

DESCRIPTION

CELL 2 CONSTRUCTION

DATE:

20 Day

JANUARY

Month

2006

Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE

NA

LIFT THICKNESS COMPACTED

8-in

MATERIAL SOURCE:

Borrow Area B3

MATERIAL TYPE

SILTY SAND

CORRECTION FACTOR Y =

N/A

NUCLEAR GAUGE TYPE

Troxler 3430

GAUGE SERIAL

22295

QA ID

RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 218	50' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	10.5	117.5	106.3	101.3%	PASS				
DT 219	50' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	5.1	106.6	101.4	96.6%	PASS				
DT 220	50' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	11.2	118.6	106.7	101.6%	PASS				
DT 221	100' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	9.7	113.9	103.8	98.9%	PASS				
DT 222	100' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	10.4	116.9	105.9	100.8%	PASS				
DT 223	100' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	7.2	110.3	102.9	98.0%	PASS				
DT 224	150' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	8.0	116.8	108.1	103.0%	PASS				
DT 225	150' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	9.9	113.0	102.8	97.9%	PASS				
DT 226	150' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	9.0	112.1	102.8	97.9%	PASS				
DT 227	200' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	9.1	112.3	102.9	98.0%	PASS				
DT 228	200' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	6.9	111.2	104.0	99.1%	PASS				
DT 229	200' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	12.7	117.0	103.8	98.9%	PASS				
DT 230	250' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	11.9	113.1	101.1	96.3%	PASS				
DT 231	250' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	7.2	113.7	106.1	101.0%	PASS				
DT 232	250' E of Access Haul Road	6	4	GF-2-3	14.0	105.0	9.8	110.8	100.9	96.1%	PASS				

COMMENTS: HR= Access Haul Road

Drive Cylinder (DR-9) taken on sample DT-225)

Field Nuclear Density Test Log



WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

OSCEOLA COUNTY, FLORIDA

PROJECT NO.:	FQ 0852	TASK NO.:	1
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DESCRIPTION	CELL 2 CONSTRUCTION

DATE: 20 Day JANUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698	MOISTURE RANGE	NA	LIFT THICKNESS	8-in
			COMPACTED	COMPACTED

MATERIAL SOURCE:	Borrow Area B3	MATERIAL TYPE	SILTY SAND	CORRECTION FACTOR Y =	N/A
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NUCLEAR GAUGE TYPE	Troxler 3430	GAUGE SERIAL	22295	QA ID	RH

[illegible]

COMMENTS:	HR= Access Haul Road
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GEO SYNTec CONSULTANTS

' WASTE SERVICES INC.

(ASTM D 3017 AND ASTM D 2922)

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

J.E.D. SOLID WASTE FACILITY

PROJECT LOCATION: OSCEOLA COUNTY, FLORIDA
DESCRIPTION: CELL 2 CONSTRUCTION
PROJECT NO.: FQ 0852
DATE: 21 JANUARY 2006
TASK NO.: 1
Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE NA LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3 MATERIAL TYPE SILTY SAND CORRECTION FACTOR Y = N/A

NUCLEAR GAUGE TYPE Troxler 3430 GAUGE SERIAL 22295 QA ID RH

NUCLEAR GAUGE TYPE 1				PROBE DEPTH		LIFT NO.		LAB RESULTS				FILED TEST RESULTS						RETEST	
TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL	RETEST			
DT 240	S Limits Drainage Ditch	6	1	GF-2-3	14.0	105.0	11.6	115.8	103.8	98.8%	PASS								
DT 241	50' N of S Limits DD	6	1	GF-2-3	14.0	105.0	11.9	112.5	100.5	95.7%	PASS								
DT 242	75' N of S Limits DD	6	1	GF-2-3	14.0	105.0	8.8	109.3	100.5	95.7%	PASS								
DT 243	125' N of S Limits DD	6	1	GF-2-3	14.0	105.0	7.3	110.3	102.8	97.9%	PASS								
DT 244	200' N of S Limits DD	6	1	GF-2-3	14.0	105.0	11.0	114.1	102.8	97.9%	PASS								
DT 245	250' N of S Limits DD	6	1	GF-2-3	14.0	105.0	14.3	114.1	99.8	95.1%	PASS								
DT 246	300' N of S Limits DD	6	1	GF-2-3	14.0	105.0	10.8	115.9	104.6	99.6%	PASS								
DT 247	350' N of S Limits DD	6	1	GF-2-3	14.0	105.0	12.9	114.5	101.4	96.6%	PASS								
DT 248	400' N of S Limits DD	6	1	GF-2-3	14.0	105.0	11.2	113.8	102.3	97.5%	PASS								
DT 249	450' N of S Limits DD	6	1	GF-2-3	14.0	105.0	10.7	112.9	102.0	97.1%	PASS								
DT 250	550' N of S Limits DD	6	1	GF-2-3	14.0	105.0	10.6	111.2	100.5	95.8%	PASS								
DT 251	S Limits Drainage Ditch	6	2	GF-2-3	14.0	105.0	11.1	117.1	105.4	100.4%	PASS								
DT 252	50' N of S Limits DD	6	2	GF-2-3	14.0	105.0	13.5	117.3	103.3	98.4%	PASS								
DT 253	75' N of S Limits DD	6	2	GF-2-3	14.0	105.0	9.4	112.9	103.2	98.3%	PASS								
DT 254	125' N of S Limits DD	6	2	GF-2-3	14.0	105.0	12.2	115.0	102.5	97.6%	PASS								

COMMENTS: DD=West Drainage Ditch
Drive Cylinder (DR-10 taken on sample DT-250 in the West drainage ditch

Field Nuclear Density Test Log



GeoSyntec Consultants

WASTE SERVICES INC.

(ASTM D 3017 AND ASTM D 2922)

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

J.E.D. SOLID WASTE FACILITY

PROJECT LOCATION: OSCEOLA COUNTY, FLORIDA

DESCRIPTION: CELL 2 CONSTRUCTION

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MATERIAL SOURCE: Borrow Area B3

PROJECT NO.: FQ 0852

DATE: 21 JANUARY 2006

MOISTURE RANGE: NA

LIFT THICKNESS COMPACTED: 8-in

MATERIAL TYPE: SILTY SAND

CORRECTION FACTOR Y = N/A

QA ID: RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 255	200' N of S Limits DD	6	2	GF-2-3	14.0	105.0	7.9	115.5	107.0	101.9%		FAIL	DT-256	PASS	
DT 256	200' N of S Limits DD	6	2	GF-2-3	14.0	105.0	10.9	114.8	103.5	98.6%	PASS				
DT 257	200' N of S Limits DD	6	1	GF-2-3	14.0	105.0	11.8	113.3	101.3	96.5%	PASS				
DT 258	50' E of HR	6	5	GF-2-3	14.0	105.0	11.4	116.4	104.5	99.5%	PASS				
DT 259	100' E of HR	6	5	GF-2-3	14.0	105.0	7.2	112.0	104.5	99.5%	PASS				
DT 260	140' E of HR	6	5	GF-2-3	14.0	105.0	11.2	112.5	101.2	96.4%	PASS				
DT 261	170' E of HR	6	5	GF-2-3	14.0	105.0	10.1	113.2	102.8	97.9%	PASS				
DT 262	190' E of HR	6	5	GF-2-3	14.0	105.0	11.6	113.4	101.6	96.8%	PASS				
DT 263	250' E of HR	6	5	GF-2-3	14.0	105.0	12.7	116.4	103.3	98.4%	PASS				
DT 264	350' E of HR	6	5	GF-2-3	14.0	105.0	10.2	115.6	104.9	99.9%	PASS				
DT 265	450' E of HR	6	5	GF-2-3	14.0	105.0	8.2	112.6	104.1	99.1%	PASS				
DT 266	400' E of HR	6	5	GF-2-3	14.0	105.0	12.0	116.7	104.2	99.2%	PASS				
DT 267	350' E of HR	6	5	GF-2-3	14.0	105.0	10.2	115.6	104.8	99.8%	PASS				
DT 268	200' E of HR	6	5	GF-2-3	14.0	105.0	8.0	110.6	102.4	97.5%	PASS				
DT 269	150' E of HR	6	5	GF-2-3	14.0	105.0	12.0	114.7	102.4	97.5%	PASS				

COMMENTS: DD=West Drainage Ditch
HR=Access Haul Road



GEO SYNTEC CONSULTANTS

WASTE SERVICES INC.

(ASTM D 3017 AND ASTM D 2922)

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

J.E.D. SOLID WASTE FACILITY

PROJECT

LOCATION: OSCEOLA COUNTY, FLORIDA

DESCRIPTION

CELL 2 CONSTRUCTION

PROJECT NO.:

FQ 0852

TASK NO.:

1

Year

DATE: 21 Day

JANUARY

Month

2006

Year

DATE: 21 Day

JANUARY

Month

2006

Year

DATE: 21 Day

JANUARY

Month

2006

Year

DATE: 21 Day

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DATE: 21 Day

JANUARY

Month

2006

OSCEOLA COUNTY, FLORIDA

CELL 2 CONSTRUCTION

ASTM D 698 95% COMPACTION

MOISTURE RANGE NA

LIFT THICKNESS COMPACTED 8-in

CORRECTION FACTOR Y = N/A

SILTY SAND

MATERIAL TYPE

GAUGE SERIAL 22295

Troxler 3430

NUCLEAR GAUGE TYPE

QA ID RH

FILED TEST RESULTS

LAB RESULTS

SAMPLE NO.

OMC (%)

MAX DRY UNIT WT (PCF)

WET UNIT WT (PCF)

PERCENT COMPACT

PASS

FAIL

RETEST NO.

RETEST PASS

DT 270

DT 271

DT 272

DT 273

DT 274

DT

DT

DT

DT

DT

DT

DT

DT

DT

DT

DT

DT

DT

DT

DT

DT

DT

DT

150' E of Access HR

100' E of Access HR

50' E of Access HR

225' N of S Limits

240' N of S Limits

6

6

6

6

6

6

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6

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6



GEOSYNTEC CONSULTANTS

WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:

OSCEOLA COUNTY, FLORIDA

PROJECT NO.: FQ 0852 TASK NO.: 1

DESCRIPTION

CELL 2 CONSTRUCTION

DATE: 23 Day JANUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE NA

LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3

MATERIAL TYPE SILTY SAND

CORRECTION FACTOR Y =

N/A

NUCLEAR GAUGE TYPE Troxler 3430

GAUGE SERIAL 22295

QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 275	75' West of Access HR	6	2	GF-2-3	14.0	105.0	10.6	112.5	101.7	96.9%	PASS				
DT 276	25' West of Access HR	6	2	GF-2-3	14.0	105.0	10.6	114.1	103.2	98.3%	PASS				
DT 277	75' West of Access HR	6	2	GF-2-3	14.0	105.0	13.6	120.6	106.2	101.1%	PASS				
DT 278	25' West of Access HR	6	2	GF-2-3	14.0	105.0	11.2	115.5	103.9	98.9%	PASS				
DT 279	75' West of Access HR	6	2	GF-2-3	14.0	105.0	11.4	117.3	105.3	100.3%	PASS				
DT 280	25' West of Access HR	6	2	GF-2-3	14.0	105.0	10.4	116.3	105.3	100.3%	PASS				
DT 281	75' West of Access HR	6	2	GF-2-3	14.0	105.0	11.1	116.9	105.2	100.2%	PASS				
DT 282	25' West of Access HR	6	2	GF-2-3	14.0	105.0	12.5	119.1	105.9	100.8%	PASS				
DT 283	75' West of Access HR	6	2	GF-2-3	14.0	105.0	12.2	114.3	101.9	97.0%	PASS				
DT 284	25' West of Access HR	6	2	GF-2-3	14.0	105.0	11.7	114.1	102.1	97.3%	PASS				
DT 285	75' West of Access HR	6	2	GF-2-3	14.0	105.0	8.5	110.0	101.4	96.6%	PASS				
DT 286	75' West of Access HR	6	3	GF-2-3	14.0	105.0	12.7	112.4	99.7	95.0%	PASS				
DT 287	25' West of Access HR	6	3	GF-2-3	14.0	105.0	9.2	112.0	104.8	99.8%	PASS				
DT 288	75' West of Access HR	6	3	GF-2-3	14.0	105.0	12.2	117.3	104.5	99.6%	PASS				
DT 289	25' West of Access HR	6	3	GF-2-3	14.0	105.0	10.7	110.7	100.0	95.2%	PASS				

COMMENTS: Drive Cylinder (DR-11 taken on test DT-275)

HR=Access Haul Road

Field Nuclear Density Test Log



GEO SYNTec CONSULTANTS

WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:

OSCEOLA COUNTY, FLORIDA

DESCRIPTION

CELL 2 CONSTRUCTION

PROJECT NO.:

FQ 0852

TASK NO.:

1

DATE:

23 Day

JANUARY

Month

2006

Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE

NA

LIFT THICKNESS COMPACTED

8-in

MATERIAL SOURCE: Borrow Area B3

MATERIAL TYPE

SILTY SAND

CORRECTION FACTOR Y =

N/A

NUCLEAR GAUGE TYPE Troxler 3430

GAUGE SERIAL

22295

QA ID

RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS						RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS
DT 290	75' West of Access HR	6	3	GF-2-3	14.0	105.0	7.0	111.6	104.3	99.3%	PASS			
DT 291	25' West of Access HR	6	3	GF-2-3	14.0	105.0	8.6	111.7	102.9	98.0%	PASS			
DT 292	75' West of Access HR	6	3	GF-2-3	14.0	105.0	10.4	116.4	105.4	100.4%	PASS			
DT 293	25' West of Access HR	6	3	GF-2-3	14.0	105.0	10.4	115.4	104.5	99.6%	PASS			
DT 294	75' West of Access HR	6	3	GF-2-3	14.0	105.0	10.3	115.3	104.5	99.6%	PASS			
DT 295	25' West of Access HR	6	3	GF-2-3	14.0	105.0	11.0	117.3	105.7	100.6%	PASS			
DT 296	75' West of Access HR	6	3	GF-2-3	14.0	105.0	10.5	116.3	105.2	100.2%	PASS			
DT 297	25' West of Access HR	6	3	GF-2-3	14.0	105.0	13.9	117.2	102.9	98.0%	PASS			
DT 298	75' West of Access HR	6	3	GF-2-3	14.0	105.0	9.2	112.2	102.7	97.9%	PASS			
DT 299	25' West of Access HR	6	3	GF-2-3	14.0	105.0	10.6	114.0	103.1	98.2%	PASS			
DT 300	75' West of Access HR	6	3	GF-2-3	14.0	105.0	9.8	112.3	102.3	97.4%	PASS			
DT 301	25' East of Access HR	6	4	GF-2-3	14.0	105.0	8.9	111.8	102.7	97.8%	PASS			
DT 302	25' East of Access HR	6	4	GF-2-3	14.0	105.0	8.6	112.5	104.8	99.8%	PASS			
DT 303	25' East of Access HR	6	4	GF-2-3	14.0	105.0	8.6	109.1	100.5	95.7%	PASS			
DT 304	25' East of Access HR	6	4	GF-2-3	14.0	105.0	7.6	111.9	104.0	99.0%	PASS			

COMMENTS: Drive Cylinder (DR-12 taken on test DT-300)

HR = Access Haul Road

Field Nuclear Density Test Log



GEOSYNTEC CONSULTANTS

WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT J.E.D. SOLID WASTE FACILITY
LOCATION: OSCEOLA COUNTY, FLORIDA
DESCRIPTION: CELL 2 CONSTRUCTION
PROJECT NO.: FQ 0852 TASK NO.: 1
DATE: 23 Day JANUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION MOISTURE RANGE NA LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3 MATERIAL TYPE SILTY SAND CORRECTION FACTOR Y = N/A

NUCLEAR GAUGE TYPE Troxler 3430 GAUGE SERIAL 22295 QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS						RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS
DT 305	75' East of Access HR	6	4	GF-2-3	14.0	105.0	8.5	109.7	101.1		96.3%	PASS		
DT 306	75' East of Access HR	6	4	GF-2-3	14.0	105.0	11.4	115.8	103.9		99.0%	PASS		
DT 307	75' East of Access HR	6	4	GF-2-3	14.0	105.0	6.0	109.2	103.0		98.1%	PASS		
DT 308	75' East of Access HR	6	4	GF-2-3	14.0	105.0	6.0	109.1	102.9		98.0%	PASS		
DT 309	75' East of Access HR	6	4	GF-2-3	14.0	105.0	8.7	111.1	102.2		97.3%	PASS		
DT 310	75' East of Access HR	6	4	GF-2-3	14.0	105.0	9.8	112.5	102.5		97.6%	PASS		
DT 311	75' East of Access HR	6	4	GF-2-3	14.0	105.0	8.7	111.8	102.9		98.0%	PASS		
DT 312	125' East of Access HR	6	4	GF-2-3	14.0	105.0	9.1	106.9	98.0	FAIL	DT-319			
DT 313	125' East of Access HR	6	4	GF-2-3	14.0	105.0	8.9	113.9	104.6		99.6%	PASS		
DT 314	125' East of Access HR	6	4	GF-2-3	14.0	105.0	12.0	118.0	105.4		100.3%	PASS		
DT 315	125' East of Access HR	6	4	GF-2-3	14.0	105.0	5.8	107.1	101.2		96.4%	PASS		
DT 316	175' East of Access HR	6	4	GF-2-3	14.0	105.0	8.1	108.8	100.6		95.9%	PASS		
DT 317	175' East of Access HR	6	4	GF-2-3	14.0	105.0	8.8	114.5	104.8		99.8%	PASS		
DT 318	225' East of Access HR	6	4	GF-2-3	14.0	105.0	10.2	116.8	106.0		100.9%	PASS		

COMMENTS: HR=Access Haul Road



WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:

OSCEOLA COUNTY, FLORIDA

PROJECT NO.:

TASK NO.:

DESCRIPTION

CELL 2 CONSTRUCTION

DATE:

23 Day

Month 20

Ye

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE	NA
0-10	10
10-20	20
20-30	30
30-40	40
40-50	50
50-60	60
60-70	70
70-80	80
80-90	90
90-100	100

NA

LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3

MATERIAL TYPE

SILTY SAND

CORRECTION FACTOR $Y =$

N/A

NUCLEAR GAUGE TYPE	Troxler 3430	GAUGE SERIAL	22295
--------------------	--------------	--------------	-------

QA ID	RH
1	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
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
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51	51
52	52
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54	54
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62	62
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67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

RH

[illegible]

COMMENTS: Drive Cylinder (DR-13 taken on test DT-325)

HR=Access Haul Road

Field Nuclear Density Test Log



GEOSYNTEC CONSULTANTS

WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:

OSCEOLA COUNTY, FLORIDA

DESCRIPTION

CELL 2 CONSTRUCTION

PROJECT NO.:

FQ 0852

TASK NO.:

1

DATE: 24 Day

JANUARY

Month

2006

Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE NA

LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3

MATERIAL TYPE

SILTY SAND

CORRECTION FACTOR Y =

N/A

NUCLEAR GAUGE TYPE Troxler 3430

GAUGE SERIAL 22295

QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS						RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS
DT 327	25' E of Access HR	6	5	GF-2-3	14.0	105.0	9.2	114.4	104.8	99.8%	PASS			
DT 328	75' E of Access HR	6	5	GF-2-3	14.0	105.0	9.5	113.1	103.3	98.4%	PASS			
DT 329	150' E of Access HR	6	5	GF-2-3	14.0	105.0	8.3	108.7	100.4	95.6%	PASS			
DT 330	200' E of Access HR	6	5	GF-2-3	14.0	105.0	9.5	117.2	107.0	101.9%	PASS			
DT 331	250' E of Access HR	6	5	GF-2-3	14.0	105.0	6.9	112.6	105.3	100.3%	PASS			
DT 332	300' E of Access HR	6	5	GF-2-3	14.0	105.0	10.4	113.6	102.9	98.0%	PASS			
DT 333	250' E of Access HR	6	5	GF-2-3	14.0	105.0	10.3	115.2	104.4	99.5%	PASS			
DT 334	200' E of Access HR	6	5	GF-2-3	14.0	105.0	12.1	114.9	102.5	97.6%	PASS			
DT 335	150' E of Access HR	6	5	GF-2-3	14.0	105.0	8.6	113.1	104.1	99.2%	PASS			
DT 336	100' E of Access HR	6	5	GF-2-3	14.0	105.0	6.2	108.5	102.2	97.3%	PASS			
DT 337	25' E of Access HR	6	5	GF-2-3	14.0	105.0	7.3	111.9	104.3	99.3%	PASS			
DT 338	25' E of Access HR	6	5	GF-2-3	14.0	105.0	7.8	115.7	107.3	102.2%	PASS			
DT 339	75' E of Access HR	6	5	GF-2-3	14.0	105.0	10.1	113.5	104.8	99.8%	PASS			
DT 340	150' E of Access HR	6	5	GF-2-3	14.0	105.0	11.0	113.3	102.1	97.2%	PASS			
DT 341	200' E of Access HR	6	5	GF-2-3	14.0	105.0	8.1	111.5	103.1	98.2%	PASS			

COMMENTS:

HR= Access Haul Road



GEOSYNTEC CONSULTANTS

WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT J.E.D. SOLID WASTE FACILITY
LOCATION: OSCEOLA COUNTY, FLORIDA PROJECT NO.: FQ 0852 TASK NO.: 1
DESCRIPTION: CELL 2 CONSTRUCTION DATE: 24 Day JANUARY Month 2006 Year
SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION MOISTURE RANGE NA LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3 MATERIAL TYPE SILTY SAND CORRECTION FACTOR Y = N/A

NUCLEAR GAUGE TYPE Troxler 3430 GAUGE SERIAL 22295 QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 342	250' E of Access HR	6	5	GF-2-3	14.0	105.0	10.6	113.2	102.4	97.5%	PASS				
DT 343	200' E of Access HR	6	5	GF-2-3	14.0	105.0	9.5	103.6	94.6	90.1%		FAIL	DT-354	PASS	
DT 344	150' E of Access HR	6	5	GF-2-3	14.0	105.0	7.5	105.8	98.4	93.7%		FAIL	DT-355	PASS	
DT 345	100' E of Access HR	6	5	GF-2-3	14.0	105.0	11.1	117.7	105.9	100.9%	PASS				
DT 346	25' E of Access HR	6	5	GF-2-3	14.0	105.0	9.6	114.0	104.0	99.1%	PASS				
DT 347	25' E of Access HR	6	5	GF-2-3	14.0	105.0	12.0	117.7	105.1	100.1%	PASS				
DT 348	75' E of Access HR	6	5	GF-2-3	14.0	105.0	10.5	113.0	102.3	97.4%	PASS				
DT 349	150' E of Access HR	6	5	GF-2-3	14.0	105.0	12.4	115.3	102.6	97.7%	PASS				
DT 350	200' E of Access HR	6	5	GF-2-3	14.0	105.0	10.5	110.7	100.2	95.4%	PASS				
DT 351	75' W of Access HR	6	5	GF-2-3	14.0	105.0	9.9	110.2	100.3	95.5%	PASS				
DT 352	75' W of Access HR	6	5	GF-2-3	14.0	105.0	9.3	115.1	105.3	100.3%	PASS				
DT 353	75' W of Access HR	6	5	GF-2-3	14.0	105.0	10.3	118.1	107.1	102.0%	PASS				

COMMENTS: Drive Cylinder (DR-14 taken on sample DT-350)
HR=Access Haul Road



GEOSYNTec CONSULTANTS

WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:

OSCEOLA COUNTY, FLORIDA

DESCRIPTION

CELL 2 CONSTRUCTION

PROJECT NO.:

FQ 0852

TASK NO.:

1

DATE:

25 Day

JANUARY

Month

2006

Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE

NA

LIFT THICKNESS COMPACTED

8-in

MATERIAL SOURCE:

Borrow Area B3

MATERIAL TYPE

SILTY SAND

CORRECTION FACTOR Y =

N/A

NUCLEAR GAUGE TYPE

Troxler 3430

GAUGE SERIAL

22295

QA ID

RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 354	200' E of Access Haul Road	6	5	GF-2-3	14.0	105.0	9.9	109.9	100.0	95.2%	PASS				
DT 355	150' E of Access Haul Road	6	5	GF-2-3	14.0	105.0	5.9	106.6	100.7	95.9%	PASS				
DT 356	150' E of W Limits	6	5	GF-2-3	14.0	105.0	7.9	113.7	105.4	100.4%	PASS				
DT 357	200' E of W Limits	6	5	GF-2-3	14.0	105.0	10.1	117.6	106.8	101.7%	PASS				
DT 358	250' E of W Limits	6	5	GF-2-3	14.0	105.0	8.5	109.1	100.6	95.8%	PASS				
DT 359	175' E of W Limits	6	5	GF-2-3	14.0	105.0	10.5	115.1	104.2	99.2%	PASS				
DT 360	225' E of W Limits	6	5	GF-2-3	14.0	105.0	10.8	115.4	104.2	99.2%	PASS				
DT 361	200' E of W Limits	6	5	GF-2-3	14.0	105.0	14.6	118.8	103.7	98.7%	PASS				
DT 362	225' E of W Limits	6	5	GF-2-3	14.0	105.0	12.5	115.2	102.4	97.5%	PASS				
DT 363	75' W of Access HR	6	6	GF-2-3	14.0	105.0	10.0	114.3	103.9	99.0%	PASS				
DT 364	75' W of Access HR	6	6	GF-2-3	14.0	105.0	14.1	114.2	100.1	95.3%	PASS				
DT 365	75' W of Access HR	6	6	GF-2-3	14.0	105.0	13.8	116.8	102.6	97.7%	PASS				
DT 366	75' W of Access HR	6	6	GF-2-3	14.0	105.0	11.1	115.1	103.6	98.7%	PASS				
DT 367	75' W of Access HR	6	6	GF-2-3	14.0	105.0	11.6	114.6	102.7	97.8%	PASS				
DT 368	75' W of Access HR	6	6	GF-2-3	14.0	105.0	11.1	114.8	103.3	98.4%	PASS				

COMMENTS: HR= Access Haul Road

Field Nuclear Density Test Log



WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION: OSCEOLA COUNTY, FLORIDA

PROJECT NO.:	FQ 0852	TASK NO.:	1
--------------	---------	-----------	---

DESCRIPTION

CELL 2 CONSTRUCTION

25

Month 2006

Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

NA

LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3

MATERIAL TYPE

SILTY SAND

CORRECTION FACTOR $Y =$

N/A

NUCLEAR GAUGE TYPE	Troxler 3430	GAUGE SERIAL	22295

QA ID	RH
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[illegible]

COMMENTS: HR= Access Haul Road

Drive Cylinder (DR-15 taken on test DT-375)

Field Nuclear Density Test Log



GEOSYNTec CONSULTANTS

WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:

OSCEOLA COUNTY, FLORIDA

DESCRIPTION

CELL 2 CONSTRUCTION

PROJECT NO.: FQ 0852 TASK NO.: 1

DATE: 26 Day JANUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE NA

LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3

MATERIAL TYPE SILTY SAND

CORRECTION FACTOR Y =

N/A

NUCLEAR GAUGE TYPE Troxler 3430

GAUGE SERIAL 22295

QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS						RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	RETEST PASS FAIL
DT 378	50' E of Access HR	6	6	GF-2-3	14.0	105.0	10.5	114.8	103.9	98.9%	PASS			
DT 379	150' E of Access HR	6	6	GF-2-3	14.0	105.0	9.1	114.4	104.9	99.9%	PASS			
DT 380	225' E of Access HR	6	6	GF-2-3	14.0	105.0	9.6	112.5	102.6	97.8%	PASS			
DT 381	340' E of Access HR	6	6	GF-2-3	14.0	105.0	12.4	108.1	96.2	91.6%		FAIL	DT-396	PASS
DT 382	325' E of Access HR	6	6	GF-2-3	14.0	105.0	11.2	111.1	99.9	95.2%	PASS			
DT 383	275' E of Access HR	6	6	GF-2-3	14.0	105.0	13.3	113.9	100.5	95.7%	PASS			
DT 384	155' E of Access HR	6	6	GF-2-3	14.0	105.0	9.3	114.5	104.8	99.8%	PASS			
DT 385	35' E of Access HR	6	6	GF-2-3	14.0	105.0	11.8	116.6	104.3	99.3%	PASS			
DT 386	75' W of Access HR	6	7	GF-2-3	14.0	105.0	8.8	112.5	103.4	98.5%	PASS			
DT 387	75' W of Access HR	6	7	GF-2-3	14.0	105.0	7.8	112.4	104.3	99.3%	PASS			
DT 388	75' W of Access HR	6	7	GF-2-3	14.0	105.0	8.6	111.7	102.9	98.0%	PASS			
DT 389	75' W of Access HR	6	7	GF-2-3	14.0	105.0	11.5	114.7	102.9	98.0%	PASS			
DT 390	75' W of Access HR	6	7	GF-2-3	14.0	105.0	9.5	114.9	104.9	99.9%	PASS			
DT 391	75' W of Access HR	6	7	GF-2-3	14.0	105.0	6.7	113.4	106.3	101.2%	PASS			
DT 392	75' W of Access HR	6	7	GF-2-3	14.0	105.0	9.7	116.8	106.5	101.4%	PASS			

COMMENTS: HR= Access Haul Road

Field Nuclear Density Test Log



GeoSYNTEC CONSULTANTS

WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:

OSCEOLA COUNTY, FLORIDA

DESCRIPTION

CELL 2 CONSTRUCTION

PROJECT NO.: FQ 0852

TASK NO.: 1

DATE:

26 Day

JANUARY

2006

Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE NA

LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3

MATERIAL TYPE

SILTY SAND

CORRECTION FACTOR Y =

N/A

NUCLEAR GAUGE TYPE Troxler 3430

GAUGE SERIAL 22295

QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 393	25' W of Access HR	6	6	GF-2-3	14.0	105.0	9.6	115.8	105.7	100.6%	PASS				
DT 394	25' W of Access HR	6	6	GF-2-3	14.0	105.0	9.5	112.7	102.9	98.0%	PASS				
DT 395	25' W of Access HR	6	6	GF-2-3	14.0	105.0	5.3	112.6	106.9	101.8%	PASS				
DT 396	340' E of Access HR	6	6	GF-2-3	14.0	105.0	12.4	114.1	101.5	96.7%	PASS				
DT 397	25' W of Access HR	6	6	GF-2-3	14.0	105.0	11.7	111.1	106.3	101.2%	PASS				
DT 398	25' W of Access HR	6	6	GF-2-3	14.0	105.0	11.8	114.3	102.2	97.4%	PASS				
DT 399	25' W of Access HR	6	6	GF-2-3	14.0	105.0	10.4	113.3	102.6	97.7%	PASS				
DT 400	25' W of Access HR	6	6	GF-2-3	14.0	105.0	11.0	114.3	103.0	98.1%	PASS				
DT 401	25' E of West Limits	6	5	GF-2-3	14.0	105.0	9.6	115.8	105.7	100.6%	PASS				
DT 402	125' E of West Limits	6	5	GF-2-3	14.0	105.0	9.6	110.5	100.8	96.0%	PASS				
DT 403	225' E of West Limits	6	5	GF-2-3	14.0	105.0	10.1	110.5	100.4	95.6%	PASS				
DT 404	275' E of West Limits	6	5	GF-2-3	14.0	105.0	6.0	112.5	106.1	101.1%	PASS				
DT 405	325' E of West Limits	6	5	GF-2-3	14.0	105.0	9.7	110.5	100.7	95.9%	PASS				
DT 406	425' E of West Limits	6	7	GF-2-3	14.0	105.0	9.7	109.0	99.4	94.6%		FAIL	DT-417	PASS	
DT 407	375' E of West Limits	6	7	GF-2-3	14.0	105.0	9.3	115.0	105.2	100.2%	PASS				

COMMENTS: HR= Access Haul Road

Drive Cylinder (DR-15 taken on test DT-400)

Field Nuclear Density Test Log



GeoSyntec Consultants

WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT LOCATION: OSCEOLA COUNTY, FLORIDA
DESCRIPTION: CELL 2 CONSTRUCTION
PROJECT NO.: FQ 0852
TASK NO.: 1
DATE: 26 JANUARY 2006
Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION
MOISTURE RANGE: NA
LIFT THICKNESS COMPACTED: 8-in

MATERIAL SOURCE: Borrow Area B3
MATERIAL TYPE: SILTY SAND
CORRECTION FACTOR Y = N/A

NUCLEAR GAUGE TYPE: Troxler 3430
GAUGE SERIAL: 22295
QA ID: RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 408	225' E of Access HR	6	6	GF-2-3	14.0	105.0	9.9	115.8	105.4	100.4%	PASS				
DT 409	175' E of Access HR	6	6	GF-2-3	14.0	105.0	13.4	115.6	101.9	97.1%	PASS				
DT 410	125' E of Access HR	6	6	GF-2-3	14.0	105.0	8.6	114.0	105.0	100.0%	PASS				
DT 411	30' E of Access HR	6	6	GF-2-3	14.0	105.0	11.4	116.3	104.4	99.4%	PASS				
DT 412	45' W of Access HR	6	8	GF-2-3	14.0	105.0	8.7	114.4	106.3	101.2%	PASS				
DT 413	45' W of Access HR	6	8	GF-2-3	14.0	105.0	9.2	117.6	107.7	102.6%	PASS				
DT 414	45' W of Access HR	6	8	GF-2-3	14.0	105.0	9.6	113.2	103.3	98.4%	PASS				
DT 415	45' W of Access HR	6	8	GF-2-3	14.0	105.0	9.3	115.3	105.5	100.5%	PASS				
DT 416	45' W of Access HR	6	8	GF-2-3	14.0	105.0	8.0	113.0	104.6	99.6%	PASS				
DT 417	425' E of West Limits	6	5	GF-2-3	14.0	105.0	6.4	109.0	102.4	97.6%	PASS				
DT 418	25' E of West Limits	6	5	GF-2-3	14.0	105.0	10.1	113.5	103.1	98.2%	PASS				
DT 419	125' E of West Limits	6	5	GF-2-3	14.0	105.0	7.7	111.4	103.4	98.5%	PASS				
DT 420	225' E of West Limits	6	5	GF-2-3	14.0	105.0	6.5	110.6	103.8	98.9%	PASS				
DT 421	325' E of West Limits	6	7	GF-2-3	14.0	105.0	9.7	110.8	101.0	96.2%	PASS				
DT 422	355' E of West Limits	6	7	GF-2-3	14.0	105.0	9.3	114.3	104.6	99.6%	PASS				

COMMENTS: HR= Access Haul Road



GEO SYNTec CONSULTANTS

WASTE SERVICES INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:

OSCEOLA COUNTY, FLORIDA

DESCRIPTION

CELL 2 CONSTRUCTION

PROJECT NO.:

FQ 0852

TASK NO.:

1

DATE:

7

Day

FEBRUARY

Month

2006

Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE

NA

LIFT THICKNESS COMPACTED

8-in

MATERIAL SOURCE: Borrow Area B3

MATERIAL TYPE

SILTY SAND

CORRECTION FACTOR Y =

N/A

NUCLEAR GAUGE TYPE Troxler 3430

GAUGE SERIAL

22295

QA ID

DH

TEST NO.	TEST LOCATION	PROBE DEPTH	ELE NO.	LAB RESULTS			FILED TEST RESULTS						RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS
DT 534	J / 13	6	93	GF-2-3	14.0	105.0	9.9	111.3	101.3	96.5%	PASS			
DT 535	K / 13	6	93	GF-2-3	14.0	105.0	10.5	110.5	100.0	95.2%	PASS			
DT 536	L / 13	6	93	GF-2-3	14.0	105.0	10.4	113.2	102.5	97.7%	PASS			
DT 537	M / 13	6	93	GF-2-3	14.0	105.0	9.4	111.5	100.3	95.5%	PASS			
DT 538	N / 13	6	93	GF-2-3	14.0	105.0	10.0	112.1	101.9	97.1%	PASS			
DT 539	O / 13	6	93	GF-2-3	14.0	105.0	8.8	114.1	104.9	99.9%	PASS			
DT 540	J / 13	6	94	GF-2-3	14.0	105.0	9.9	111.3	101.3	96.5%	PASS			
DT 541	K / 13	6	94	GF-2-3	14.0	105.0	10.7	114.4	103.3	98.4%	PASS			
DT 542	L / 13	6	94	GF-2-3	14.0	105.0	9.9	112.5	102.4	97.5%	PASS			
DT 543	M / 13	6	94	GF-2-3	14.0	105.0	10.4	114.1	103.4	98.4%	PASS			
DT 544	N / 13	6	94	GF-2-3	14.0	105.0	10.2	113.7	103.2	98.3%	PASS			
DT 545	O / 13	6	94	GF-2-3	14.0	105.0	9.9	110.5	100.5	95.8%	PASS			
DT 546	J / 13	6	94	GF-2-3	14.0	105.0	10.7	113.1	102.2	97.3%	PASS			
DT 547	K / 13	6	95	GF-2-3	14.0	105.0	9.9	111.8	101.7	96.9%	PASS			
DT 548	L / 13	6	95	GF-2-3	14.0	105.0	10.4	111.9	101.4	96.5%	PASS			

COMMENTS: HR= Access Haul Road

Field Nuclear Density Test Log



GEOSYNTec CONSULTANTS



FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT _____ J.E.D. SOLID WASTE FACILITY
LOCATION: _____ OSCEOLA COUNTY, FLORIDA PROJECT NO.: _____ FQ 0852 TASK NO.: _____ 1
DESCRIPTION _____ CELL 2 CONSTRUCTION DATE: _____ 8 Day FEBRUARY Month 2006 Year
SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION MOISTURE RANGE _____ NA LIFT THICKNESS COMPACTED _____ 8-in
MATERIAL SOURCE: _____ Borrow Area B3 MATERIAL TYPE _____ SILTY SAND CORRECTION FACTOR Y = _____ N/A
NUCLEAR GAUGE TYPE _____ Troxler 3430 GAUGE SERIAL _____ 22295 QA ID _____ RH _____

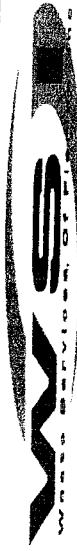
TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 555	J / 12	8	15	GF-2-3	14.0	105.0	7.7	111.1	103.2	98.2%	PASS				
DT 556	K / 12	8	15	GF-2-3	14.0	105.0	8.3	110.4	101.9	97.1%	PASS				
DT 557	J / 12	8	15	GF-2-3	14.0	105.0	10.0	113.2	102.9	98.0%	PASS				
DT 558	K / 13	8	15	GF-2-3	14.0	105.0	9.3	112.2	102.7	97.8%	PASS				
DT 559	P / 12	8	15	GF-2-3	14.0	105.0	10.2	110.9	100.6	95.8%	PASS				
DT 560	O / 12	8	14	GF-2-3	14.0	105.0	9.4	109.7	100.3	95.5%	PASS				
DT 561	N / 5	8	SG	GF-2-3	14.0	105.0	9.9	112.5	102.4	97.5%	PASS				
DT 562	N / 6	8	SG	GF-2-3	14.0	105.0	8.8	110.9	101.9	97.1%	PASS				
DT 563	N / 7	8	SG	GF-2-3	14.0	105.0	7.5	109.3	101.7	96.8%	PASS				
DT 564	O / 8	8	SG	GF-2-3	14.0	105.0	8.6	111.7	102.9	98.0%	PASS				
DT 565	L / 12	8	10	GF-2-3	14.0	105.0	11.2	114.2	102.7	97.8%	PASS				
DT 566	N / 12	8	10	GF-2-3	14.0	105.0	10.4	113.7	103.0	98.1%	PASS				
DT 567	M / 12	8	10	GF-2-3	14.0	105.0	11.0	114.1	102.8	97.9%	PASS				
DT 568	N / 12	8	10	GF-2-3	14.0	105.0	9.9	113.8	103.5	98.6%	PASS				
DT 569	M / 12	8	10	GF-2-3	14.0	105.0	11.3	114.0	102.4	97.5%	PASS				

COMMENTS:

Field Nuclear Density Test Log



GEO SYNTec CONSULTANTS



FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT: J.E.D. SOLID WASTE FACILITY
LOCATION: OSCEOLA COUNTY, FLORIDA
DESCRIPTION: CELL 2 CONSTRUCTION
PROJECT NO.: FQ 0852 TASK NO.: 1
DATE: 8 Day FEBRUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION
MOISTURE RANGE: NA
LIFT THICKNESS COMPACTED: 8-in

MATERIAL SOURCE: Borrow Area B3 MATERIAL TYPE: SILTY SAND CORRECTION FACTOR Y = N/A

NUCLEAR GAUGE TYPE: Troxler 3430 GAUGE SERIAL: 22295 QA ID: RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 570	O / 12	8	11	GF-2-3	14.0	105.0	7.5	109.6	102.0	97.1%	PASS				
DT 571	P / 12	8	11	GF-2-3	14.0	105.0	6.3	109.1	102.6	97.7%	PASS				
DT 572	O / 13	8	11	GF-2-3	14.0	105.0	10.0	111.3	101.2	96.4%	PASS				
DT 573	P / 13	8	11	GF-2-3	14.0	105.0	10.4	111.6	101.1	96.3%	PASS				
DT 574	O / 13	8	11	GF-2-3	14.0	105.0	8.2	110.6	102.2	97.4%	PASS				
DT 575	O / 12	8	12	GF-2-3	14.0	105.0	9.0	108.9	99.9	95.2%	PASS				
DT 576	P / 12	8	12	GF-2-3	14.0	105.0	9.2	109.3	100.1	95.3%	PASS				
DT 577	M / 12	8	16	GF-2-3	14.0	105.0	9.5	111.1	101.5	96.6%	PASS				
DT 578	L / 12	8	16	GF-2-3	14.0	105.0	7.0	108.9	101.8	96.9%	PASS				
DT 579	K / 12	8	16	GF-2-3	14.0	105.0	7.7	110.3	102.4	97.5%	PASS				
DT 580	J / 12	8	16	GF-2-3	14.0	105.0	8.8	109.9	101.0	96.2%	PASS				
DT 581	J / 12	8	16	GF-2-3	14.0	105.0	10.2	111.4	101.1	96.3%	PASS				
DT 582	K / 12	8	16	GF-2-3	14.0	105.0	11.3	113.4	101.9	97.0%	PASS				
DT 583	O / 12	8	SG	GF-2-3	14.0	105.0	9.0	110.5	101.4	96.5%	PASS				
DT 584	O / 13	8	SG	GF-2-3	14.0	105.0	9.4	112.5	102.8	97.9%	PASS				

COMMENTS:

Field Nuclear Density Test Log



GEO SYNTec CONSULTANTS



FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT J.E.D. SOLID WASTE FACILITY
LOCATION: OSCEOLA COUNTY, FLORIDA PROJECT NO.: FQ 0852 TASK NO.: 1
DESCRIPTION: CELL 2 CONSTRUCTION DATE: 9 Day FEBRUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION MOISTURE RANGE NA LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3 MATERIAL TYPE SILTY SAND CORRECTION FACTOR Y = N/A

NUCLEAR GAUGE TYPE Troxler 3430 GAUGE SERIAL 22295 QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS						RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS
DT 585	J / 3	6	1	GF-2-3	14.0	105.0	12.2	114.3	101.9	97.0%	PASS			
DT 586	J / 3	6	1	GF-2-3	14.0	105.0	12.7	113.9	101.1	96.3%	PASS			
DT 587	J / 4	6	1	GF-2-3	14.0	105.0	14.8	115.2	100.3	95.6%	PASS			
DT 588	J / 5	6	1	GF-2-3	14.0	105.0	11.5	113.3	101.6	96.8%	PASS			
DT 589	J / 5	6	1	GF-2-3	14.0	105.0	13.0	114.3	101.2	96.3%	PASS			
DT 590	K / 3	6	1	GF-2-3	14.0	105.0	12.2	115.0	102.5	97.6%	PASS			
DT 591	K / 4	6	1	GF-2-3	14.0	105.0	14.0	116.1	101.8	97.0%	PASS			
DT 592	K / 5	6	1	GF-2-3	14.0	105.0	11.7	114.1	102.1	97.3%	PASS			
DT 593	K / 5	6	1	GF-2-3	14.0	105.0	11.3	113.3	101.8	96.9%	PASS			
DT 594	L / 4	6	1	GF-2-3	14.0	105.0	14.6	116.0	101.2	96.4%	PASS			
DT 595	L / 5	6	1	GF-2-3	14.0	105.0	12.0	114.8	102.5	97.6%	PASS			
DT 596	M / 4	6	1	GF-2-3	14.0	105.0	10.7	113.5	102.5	97.6%	PASS			
DT 597	L / 5	6	1	GF-2-3	14.0	105.0	9.8	113.4	103.3	98.4%	PASS			
DT 598	M / 5	6	1	GF-2-3	14.0	105.0	11.0	113.9	102.6	97.7%	PASS			
DT 599	M / 5	6	1	GF-2-3	14.0	105.0	11.3	114.0	102.4	97.5%	PASS			

COMMENTS: AREA WAS TESTED FOR DENSITY AFTER AREA WAS CUT DOWN TO GRADE BY CONTRACTOR

Field Nuclear Density Test Log



GEO SYNTec CONSULTANTS



FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT J.E.D. SOLID WASTE FACILITY
LOCATION: OSCEOLA COUNTY, FLORIDA PROJECT NO.: FQ 0852 TASK NO.: 1
DESCRIPTION: CELL 2 CONSTRUCTION DATE: 9 Day FEBRUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION MOISTURE RANGE NA LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3 MATERIAL TYPE SILTY SAND CORRECTION FACTOR Y = N/A

NUCLEAR GAUGE TYPE Troxler 3430 GAUGE SERIAL 22295 QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS						RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS
DT 600	J / 12	6	SG	GF-2-3	14.0	105.0	7.8	110.5	102.5	97.6%	PASS			
DT 601	K / 12	6	SG	GF-2-3	14.0	105.0	7.0	109.5	102.3	97.5%	PASS			
DT 602	L / 12	6	SG	GF-2-3	14.0	105.0	6.4	109.0	102.4	97.6%	PASS			
DT 603	M / 12	6	SG	GF-2-3	14.0	105.0	8.9	108.8	99.9	95.2%	PASS			
DT 604	N / 12	6	SG	GF-2-3	14.0	105.0	6.2	110.6	104.1	99.2%	PASS			
DT 605	O / 12	6	SG	GF-2-3	14.0	105.0	9.3	110.7	101.3	96.5%	PASS			
DT 606	J / 12	6	SG	GF-2-3	14.0	105.0	6.1	109.0	102.7	97.8%	PASS			
DT 607	K / 12	6	SG	GF-2-3	14.0	105.0	7.0	108.5	101.4	96.6%	PASS			
DT 608	L / 12	6	SG	GF-2-3	14.0	105.0	8.9	109.6	100.6	95.9%	PASS			
DT 609	M / 12	6	SG	GF-2-3	14.0	105.0	10.5	111.3	100.7	95.9%	PASS			
DT 610	N / 12	6	SG	GF-2-3	14.0	105.0	5.7	107.8	102.0	97.1%	PASS			
DT 611	O / 12	6	SG	GF-2-3	14.0	105.0	6.1	107.2	101.0	96.2%	PASS			
DT 612	P / 12	6	SG	GF-2-3	14.0	105.0	8.0	109.2	101.1	96.3%	PASS			
DT 613	M / 5	6	SG	GF-2-3	14.0	105.0	7.4	107.2	99.8	95.1%	PASS			
DT 614	M / 5	6	SG	GF-2-3	14.0	105.0	7.7	107.6	99.9	95.1%	PASS			

COMMENTS: Drive Cylinder (DR-24) taken on density test (DT-600)



GEO SYNTec CONSULTANTS



FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT J.E.D. SOLID WASTE FACILITY PROJECT NO.: FQ 0852 TASK NO.: 1
LOCATION: OSCEOLA COUNTY, FLORIDA DATE: 9 Day FEBRUARY Month 2006 Year
DESCRIPTION: CELL 2 CONSTRUCTION

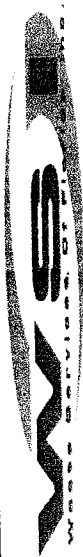
SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION MOISTURE RANGE NA LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3 MATERIAL TYPE SILTY SAND CORRECTION FACTOR Y = N/A

NUCLEAR GAUGE TYPE Troxler 3430 GAUGE SERIAL 22295 QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS						RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	RETEST PASS FAIL
DT 615	L/12	6	SG	GF-2-3	14.0	105.0	6.3	108.0	101.6	96.8%	PASS			
DT 616	M/12	6	SG	GF-2-3	14.0	105.0	11.1	113.3	102.0	97.1%	PASS			
DT 617	O/12	6	SG	GF-2-3	14.0	105.0	8.3	109.3	100.9	96.1%	PASS			
DT 618	J/11	6	SG	GF-2-3	14.0	105.0	7.7	108.6	100.8	96.0%	PASS			
DT 619	K/11	6	SG	GF-2-3	14.0	105.0	6.9	107.7	100.7	96.0%	PASS			
DT 620	L/11	6	SG	GF-2-3	14.0	105.0	5.8	107.0	101.1	96.3%	PASS			
DT 621	M/11	6	SG	GF-2-3	14.0	105.0	9.5	109.3	99.8	95.1%	PASS			
DT 622	N/11	6	SG	GF-2-3	14.0	105.0	7.2	108.8	101.5	96.7%	PASS			
DT 623	J/10	6	SG	GF-2-3	14.0	105.0	8.0	109.4	101.3	96.5%	PASS			
DT 624	K/10	6	SG	GF-2-3	14.0	105.0	11.1	113.5	102.2	97.3%	PASS			
DT 625	L/10	6	SG	GF-2-3	14.0	105.0	9.0	109.9	100.8	96.0%	PASS			
DT 626	M/10	6	SG	GF-2-3	14.0	105.0	5.8	107.9	102.0	97.1%	PASS			
DT 627	N/10	6	SG	GF-2-3	14.0	105.0	7.9	108.5	100.6	95.8%	PASS			
DT 628	J/9	6	SG	GF-2-3	14.0	105.0	7.7	109.3	101.5	96.7%	PASS			
DT 629	K/9	6	SG	GF-2-3	14.0	105.0	6.2	107.8	101.5	96.7%	PASS			

COMMENTS: Drive Cylinder (DR-25) taken on density test (DT-625)



(ASTM D 3017 AND ASTM D 2922)

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

IED SOLID WASTE FACILITY

PROJECT

PROJECT _____ OSCEOLA COUNTY, FLORIDA

LOCATION: _____

LOCATION:	OSCEOLA COUNTY, FLORIDA	DATE:	9	Day	FEBRUARY	Month	2006	Year
DESCRIPTION	CELL 2 CONSTRUCTION							

[illegible]

MATERIAL SOURCE:	Borrow Area B3	MATERIAL TYPE	SILTY SAND	CORRECTION FACTOR Y =	N/A

GAUGE TYPE	GAUGE SERIAL	QA ID	RH
Troyler	3430	22295	

[illegible]

COMMENTS:



GEO SYNTEC CONSULTANTS



(ASTM D 3017 AND ASTM D 2922)

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

PROJECT J.E.D. SOLID WASTE FACILITY PROJECT NO.: FQ 0852 TASK NO.: 1
LOCATION: OSCEOLA COUNTY, FLORIDA DATE: 10 Day FEBRUARY Month 2006 Year
DESCRIPTION: CELL 2 CONSTRUCTION

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION MOISTURE RANGE NA LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3 MATERIAL TYPE SILTY SAND CORRECTION FACTOR Y = N/A

NUCLEAR GAUGE TYPE Troxler 3430 GAUGE SERIAL 22295 QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 638	N / 4	6	SG	GF-2-3	14.0	105.0	7.8	109.2	101.3	96.5%	PASS				
DT 639	N / 5	6	SG	GF-2-3	14.0	105.0	7.1	108.4	101.2	96.4%	PASS				
DT 640	O / 6	6	SG	GF-2-3	14.0	105.0	9.4	110.3	100.8	96.0%	PASS				
DT 641	N / 7	6	SG	GF-2-3	14.0	105.0	8.1	109.3	101.1	96.3%	PASS				
DT 642	O / 8	6	SG	GF-2-3	14.0	105.0	7.4	108.2	100.7	95.9%	PASS				
DT 643	P / 9	6	SG	GF-2-3	14.0	105.0	10.2	112.1	101.7	96.9%	PASS				
DT 644	P / 10	6	SG	GF-2-3	14.0	105.0	9.1	109.0	99.9	95.2%	PASS				
DT 645	P / 11	6	SG	GF-2-3	14.0	105.0	7.2	108.4	101.1	96.3%	PASS				
DT 646	O / 8 / 9	6	SG	GF-2-3	14.0	105.0	8.3	108.6	100.3	95.5%	PASS				
DT 647	O / 9 / 10	6	SG	GF-2-3	14.0	105.0	6.8	107.9	101.0	96.2%	PASS				
DT 648	P / 10	6	SG	GF-2-3	14.0	105.0	10.1	110.3	100.2	95.4%	PASS				
DT 649	P / 11	6	SG	GF-2-3	14.0	105.0	11.4	111.4	100.0	95.2%	PASS				
DT 650	O / 12	6	SG	GF-2-3	14.0	105.0	10.0	113.1	102.8	97.9%	PASS				
DT 651	O / 12	6	SG	GF-2-3	14.0	105.0	9.1	109.7	100.5	95.8%	PASS				
DT 652	N / 12	6	SG	GF-2-3	14.0	105.0	8.4	108.8	100.4	95.6%	PASS				

COMMENTS: Drive Cylinder (DR-26) taken on density test (DT-650)



GeoSyntec Consultants



FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:

OSCEOLA COUNTY, FLORIDA

DESCRIPTION

CELL 2 CONSTRUCTION

PROJECT NO.: FQ 0852 TASK NO.: 1

DATE:

10 Day

FEBRUARY Month

2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE

NA

LIFT THICKNESS COMPACTED

8-in

MATERIAL SOURCE: Borrow Area B3

MATERIAL TYPE

SILTY SAND

CORRECTION FACTOR Y =

N/A

NUCLEAR GAUGE TYPE Troxler 3430

GAUGE SERIAL 22295

QA ID

RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 653	M / 12	6	SG	GF-2-3	14.0	105.0	8.9	110.1	101.1	96.3%	PASS				
DT 654	L / 12	6	SG	GF-2-3	14.0	105.0	10.4	111.7	101.2	96.4%	PASS				
DT 655	K / 12	6	SG	GF-2-3	14.0	105.0	10.6	111.2	100.5	95.8%	PASS				
DT 656	J / 12	6	SG	GF-2-3	14.0	105.0	12.1	112.2	100.1	95.3%	PASS				
DT 657	I / 12	6	SB	GF-2-3	14.0	105.0	11.2	112.8	101.4	96.6%	PASS				
DT 658	I / 11	6	SB	GF-2-3	14.0	105.0	10.7	111.5	100.7	95.9%	PASS				
DT 659	I / 10	6	SB	GF-2-3	14.0	105.0	9.3	110.4	101.0	96.2%	PASS				
DT 660	I / 9	6	SB	GF-2-3	14.0	105.0	8.3	109.3	100.9	96.1%	PASS				
DT 661	I / 8	6	SB	GF-2-3	14.0	105.0	8.5	109.3	100.7	95.9%	PASS				
DT 662	J / 2	6	SB	GF-2-3	14.0	105.0	13.4	114.4	100.9	96.1%	PASS				
DT 663	J / 2	6	SB	GF-2-3	14.0	105.0	15.1	115.1	100.0	95.2%	PASS				
DT 664	L / 2	6	SB	GF-2-3	14.0	105.0	12.2	113.1	100.8	96.0%	PASS				
DT 665	L / 3	6	SB	GF-2-3	14.0	105.0	16.2	115.1	99.1	94.3%		FAIL	DT-668		
DT 666	M / 3	6	SB	GF-2-3	14.0	105.0	13.1	112.9	99.8	95.1%	PASS				
DT 667	M / 4	6	SB	GF-2-3	14.0	105.0	16.8	115.0	98.5	93.8%	PASS	FAIL	DT-669		

COMMENTS: DT-657 TO DT 661 was taken on the West interior berm. Berms were stripped only and area tested was called SUBBASE.

DT-662 TO DT -667 was taken on the Northern interior berm slope, bottom 20 feet of berm was removed after testing due to excessive "pumping" and replaced



GEO SYNTec CONSULTANTS



FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:

OSCEOLA COUNTY, FLORIDA

PROJECT NO.: FQ 0852 TASK NO.: 1

DESCRIPTION

CELL 2 CONSTRUCTION

DATE: 13 Day FEBRUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE NA

LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3

MATERIAL TYPE: SILTY SAND

CORRECTION FACTOR Y =

N/A

NUCLEAR GAUGE TYPE Troxler 3430 GAUGE SERIAL 22295

QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS						RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT WT COMPACT	PASS	FAIL	RETEST NO.	RETEST PASS FAIL
DT 668	J / 12	6	SG	GF-2-3	14.0	105.0	9.9	110.3	100.4	95.6%	PASS			
DT 669	K / 12	6	SG	GF-2-3	14.0	105.0	11.2	114.7	103.1	98.2%	PASS			
DT 670	K / 11	6	SG	GF-2-3	14.0	105.0	7.4	112.1	104.4	99.4%	PASS			
DT 671	J / 11	6	SG	GF-2-3	14.0	105.0	9.5	112.6	102.8	97.9%	PASS			
DT 672	J / 10	6	SG	GF-2-3	14.0	105.0	10.4	114.5	103.7	98.8%	PASS			
DT 673	K / 10	6	SG	GF-2-3	14.0	105.0	10.6	112.5	101.7	96.9%	PASS			
DT 674	I / 12	6	SG	GF-2-3	14.0	105.0	9.2	111.5	102.1	97.2%	PASS			
DT 675	I / 11	6	SG	GF-2-3	14.0	105.0	7.7	108.3	100.6	95.8%	PASS			
DT 676	I / 10	6	SG	GF-2-3	14.0	105.0	7.4	108.7	101.2	96.4%	PASS			
DT 677	I / 9	6	SG	GF-2-3	14.0	105.0	8.5	110.0	101.4	96.6%	PASS			
DT 678	I / 8	6	SG	GF-2-3	14.0	105.0	9.0	111.3	102.1	97.2%	PASS			
DT 679	I / 7	6	SG	GF-2-3	14.0	105.0	11.2	112.5	101.2	96.4%	PASS			
DT 680	I / 6	6	SG	GF-2-3	14.0	105.0	10.0	112.4	102.2	97.3%	PASS			
DT 681	I / 5	6	SG	GF-2-3	14.0	105.0	9.0	110.7	101.6	96.7%	PASS			
DT 682	J / 9	6	SG	GF-2-3	14.0	105.0	8.4	109.4	100.9	96.1%	PASS			

COMMENTS: Drive Cylinder (DR-27) taken on density test (DT-675)



GEO SYNTec CONSULTANTS



FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT		J.E.D. SOLID WASTE FACILITY	
LOCATION:	OSCEOLA COUNTY, FLORIDA	PROJECT NO.:	FQ 0852
DESCRIPTION	CELL 2 CONSTRUCTION	DATE:	13 Day 2006 Year
SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION		MOISTURE RANGE	NA
		LIFT THICKNESS COMPACTED	8-in
MATERIAL SOURCE: Borrow Area B3		MATERIAL TYPE	SILTY SAND
		CORRECTION FACTOR Y =	N/A
NUCLEAR GAUGE TYPE		Troxler 3430	GAUGE SERIAL 22295
		QA ID	RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS						RETEST		
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	RETEST	
														PASS	FAIL
DT 683	K / 9	6	SG	GF-2-3	14.0	105.0	11.4	113.3	101.7	96.9%	PASS				
DT 684	J / 8	6	SG	GF-2-3	14.0	105.0	11.0	113.0	101.8	97.0%	PASS				
DT 685	K / 8	6	SG	GF-2-3	14.0	105.0	10.5	112.5	101.8	97.0%	PASS				
DT 686	J / 7	6	SG	GF-2-3	14.0	105.0	12.2	114.2	101.8	96.9%	PASS				
DT 687	K / 7	6	SG	GF-2-3	14.0	105.0	9.4	110.4	100.9	96.1%	PASS				
DT 688	L / 12	6	SG	GF-2-3	14.0	105.0	9.0	112.0	102.8	97.9%	PASS				
DT 689	M / 12	6	SG	GF-2-3	14.0	105.0	9.9	111.6	101.5	96.7%	PASS				
DT 690	N / 12	6	SG	GF-2-3	14.0	105.0	10.8	113.1	102.1	97.2%	PASS				
DT 691	O / 12	6	SG	GF-2-3	14.0	105.0	7.8	109.5	101.6	96.7%	PASS				
DT 692	L / 11	6	SG	GF-2-3	14.0	105.0	8.8	109.0	100.2	95.4%	PASS				
DT 693	M / 11	6	SG	GF-2-3	14.0	105.0	10.5	111.0	100.5	95.7%	PASS				
DT 694	N / 11	6	SG	GF-2-3	14.0	105.0	10.0	112.2	102.0	97.1%	PASS				
DT 695	O / 11	6	SG	GF-2-3	14.0	105.0	11.3	113.4	101.9	97.0%	PASS				
DT 696	L / 10	6	SG	GF-2-3	14.0	105.0	12.3	114.1	101.6	96.8%	PASS				
DT 697	L / 9	6	SG	GF-2-3	14.0	105.0	8.9	110.6	101.6	96.7%	PASS				

COMMENTS: After subgrade was obtained Contractor placed additional 2/ 10 ths of material over area, therefore area was retested



GEOSYNTEC CONSULTANTS



FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT J.E.D. SOLID WASTE FACILITY
LOCATION: OSCEOLA COUNTY, FLORIDA PROJECT NO.: FQ 0852 TASK NO.: 1
DESCRIPTION: CELL 2 CONSTRUCTION DATE: 13 Day FEBRUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION MOISTURE RANGE NA LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3 MATERIAL TYPE SILTY SAND CORRECTION FACTOR Y = N/A

NUCLEAR GAUGE TYPE Troxler 3430 GAUGE SERIAL 22295 QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FIELD TEST RESULTS						RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	RETEST PASS FAIL
DT 698	L / 8	6	SG	GF-2-3	14.0	105.0	10.0	108.5	98.6	93.9%		FAIL	DT-699	PASS
DT 699	L / 8	6	SG	GF-2-3	14.0	105.0	10.1	110.4	100.3	95.5%	PASS			
DT 700	M / 10	6	SG	GF-2-3	14.0	105.0	9.5	110.0	100.5	95.7%	PASS			
DT 701	M / 9	6	SG	GF-2-3	14.0	105.0	9.1	111.9	102.6	97.7%	PASS			
DT 702	M / 8	6	SG	GF-2-3	14.0	105.0	9.4	111.6	102.0	97.2%	PASS			
DT 703	N / 10	6	SG	GF-2-3	14.0	105.0	8.8	110.7	101.7	96.9%	PASS			
DT 704	L / 6	6	SG	GF-2-3	14.0	105.0	8.5	109.7	101.1	96.3%	PASS			
DT 705	K / 6	6	SG	GF-2-3	14.0	105.0	9.3	110.4	101.0	96.2%	PASS			
DT 706	J / 6	6	SG	GF-2-3	14.0	105.0	7.9	108.5	100.6	95.8%	PASS			
DT 707	J / 5	6	SG	GF-2-3	14.0	105.0	10.0	109.0	99.1	94.4%		FAIL	DT-708	PASS
DT 708	J / 5	6	SG	GF-2-3	14.0	105.0	10.2	110.7	100.5	95.7%	PASS			
DT 709	L / 5	6	SG	GF-2-3	14.0	105.0	11.3	110.6	99.4	94.6%		FAIL	DT-710	PASS
DT 710	L / 5	6	SG	GF-2-3	14.0	105.0	11.4	111.2	99.8	95.1%	PASS			
DT 711	K / 4	6	SG	GF-2-3	14.0	105.0	7.5	109.1	101.5	96.7%	PASS			
DT 712	L / 4	6	SG	GF-2-3	14.0	105.0	8.1	109.5	101.3	96.5%	PASS			

COMMENTS: Drive Cylinder (DR-28) taken on density test (DT-700)



GEOSYNTEC CONSULTANTS



FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:

OSCEOLA COUNTY, FLORIDA

PROJECT NO.: FQ 0852 TASK NO.: 1

DESCRIPTION

CELL 2 CONSTRUCTION

DATE: 13 Day FEBRUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE NA

LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3

MATERIAL TYPE SILTY SAND

CORRECTION FACTOR Y =

N/A

NUCLEAR GAUGE TYPE Troxler 3430

GAUGE SERIAL 22295

QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS						RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	RETEST PASS FAIL
DT 713	J/3	6	SG	GF-2-3	14.0	105.0	7.5	112.2	104.4	99.4%	PASS			
DT 714	K/3	6	SG	GF-2-3	14.0	105.0	5.8	111.0	104.9	99.9%	PASS			
DT 715	I/4	6	SG	GF-2-3	14.0	105.0	6.6	110.0	103.2	98.3%	PASS			
DT 716	I/3	6	SG	GF-2-3	14.0	105.0	9.0	111.9	102.7	97.8%	PASS			
DT 717	I/3	6	SG	GF-2-3	14.0	105.0	8.1	111.6	103.2	98.3%	PASS			
DT 718	I/2	6	SG	GF-2-3	14.0	105.0	7.3	111.1	103.5	98.6%	PASS			
DT 719	L/7	6	SG	GF-2-3	14.0	105.0	7.4	111.1	103.4	98.5%	PASS			
DT 720	K/5	6	SG	GF-2-3	14.0	105.0	7.9	111.3	103.2	98.2%	PASS			
DT 721	J/4	6	SG	GF-2-3	14.0	105.0	8.8	111.8	102.8	97.9%	PASS			
DT 722	J/2	6	SB	GF-2-7	12.0	108.0	10.4	114.8	104.0	96.3%	PASS			
DT 723	J/2	6	SB	GF-2-7	12.0	108.0	9.1	114.1	104.6	96.8%	PASS			
DT 724	K/2	6	SB	GF-2-7	12.0	108.0	7.9	111.3	103.2	95.5%	PASS			
DT 725	J/2	6	SB	GF-2-7	12.0	108.0	7.7	112.1	104.1	96.4%	PASS			
DT 726	K/2	6	SB	GF-2-7	12.0	108.0	7.0	112.8	105.4	97.6%	PASS			
DT 727	K/3	6	SB	GF-2-7	12.0	108.0	8.4	113.1	104.3	96.6%	PASS			

COMMENTS: Drive Cylinder (DR-29) taken on density test (DT-725)

Field Nuclear Density Test Log



(ASTM D 3017 AND ASTM D 2922)

J.E.D. SOLID WASTE FACILITY

OSCEOLA COUNTY, FLORIDA

1

CELL 2 CONSTRUCTION

Year

LIFT THICKNESS COMPACTED 8-in

CORRECTION FACTOR $Y =$

RH

[illegible]

COMMENTS: Material was placed by GPS Dozer and tested and graded to final grade.



GEO SYNTec CONSULTANTS



FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT J.E.D. SOLID WASTE FACILITY
LOCATION: OSCEOLA COUNTY, FLORIDA PROJECT NO.: FQ 0852 TASK NO.: 1
DESCRIPTION: CELL 2 CONSTRUCTION DATE: 14 Day FEBRUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION MOISTURE RANGE NA LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3 MATERIAL TYPE SILTY SAND CORRECTION FACTOR Y = N/A

NUCLEAR GAUGE TYPE Troxler 3430 GAUGE SERIAL 22295 QA ID RH

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 738	J / 3	6	SG	GF-2-3	14.0	105.0	7.8	109.0	101.1	96.3%	PASS				
DT 739	J / 4	6	SG	GF-2-3	14.0	105.0	6.7	108.4	101.6	96.8%	PASS				
DT 740	K / 3	6	SG	GF-2-3	14.0	105.0	10.3	109.3	99.1	94.4%		FAIL	DT-745	PASS	
DT 741	K / 4	6	SG	GF-2-3	14.0	105.0	10.8	108.6	98.0	93.3%		FAIL	DT-746	PASS	
DT 742	L / 4	6	SG	GF-2-3	14.0	105.0	11.4	111.8	100.4	95.6%	PASS				
DT 743	L / 5	6	SG	GF-2-3	14.0	105.0	11.8	111.2	99.5	94.7%		FAIL	DT-747	PASS	
DT 744	M / 5	6	SG	GF-2-3	14.0	105.0	11.6	114.5	102.6	97.7%	PASS				
DT 745	K / 3	6	SG	GF-2-3	14.0	105.0	10.4	111.3	100.8	96.0%	PASS				
DT 746	K / 4	6	2	GF-2-3	14.0	105.0	10.8	110.5	99.7	95.0%	PASS				
DT 747	M / 5	6	2	GF-2-7	12.0	108.0	12.2	115.3	102.8	95.2%	PASS				
DT 748	M / 3	6	2	GF-2-7	12.0	108.0	9.1	114.1	104.6	96.8%	PASS				
DT 749	N / 6	6	2	GF-2-7	12.0	108.0	9.9	113.3	103.1	95.5%	PASS				
DT 750	O / 8	6	2	GF-2-7	12.0	108.0	8.0	112.1	103.8	96.1%	PASS				
DT 751	O / 10	6	2	GF-2-7	12.0	108.0	9.9	112.8	102.6	95.0%	PASS				
DT 752	P / 12	6	2	GF-2-7	12.0	108.0	8.8	113.1	104.0	96.3%	PASS				

COMMENTS: Drive Cylinder (DR-30) taken on density test (DT-750)

Area was regraded by Contractor and retested

Second lift placed at top of crest -East Perimeter berm area

Field Nuclear Density Test Log



(ASTM D 3017 AND ASTM D 2922)

IFIED SOLID WASTE FACILITY

OSCEOLA COUNTY, FLORIDA

1

FEBRUARY Month 2006

Year

LIFT THICKNESS COMPACTED

CORRECTION FACTOR $Y =$

OA ID RH

[illegible]

Second lift placed at top of crest -East Perimeter berm area



GeoSyntec Consultants



FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT J.E.D. SOLID WASTE FACILITY
LOCATION: OSCEOLA COUNTY, FLORIDA PROJECT NO.: FQ 0852 TASK NO.: 1
DESCRIPTION: CELL 2 CONSTRUCTION DATE: 21 Day FEBRUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION MOISTURE RANGE NA LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3 MATERIAL TYPE SILTY SAND CORRECTION FACTOR Y = N/A

NUCLEAR GAUGE TYPE Troxler 3430 GAUGE SERIAL 22295 QA ID TA

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 763	J / 2	6	SG	GF-2-3	14.0	105.0	5.9	110.7	104.5	99.6%	PASS				
DT 764	K / 3	6	SG	GF-2-3	14.0	105.0	4.8	104.7	99.9	95.1%	PASS				
DT 765	L / 3	6	SG	GF-2-3	14.0	105.0	5.4	108.1	102.6	97.7%	PASS				
DT 766	M / 4	6	SG	GF-2-3	14.0	105.0	9.5	113.5	103.7	98.7%	PASS				
DT 767	N / 5	6	SG	GF-2-3	14.0	105.0	4.3	97.0	93.0	88.6%		FAIL	DT-798	PASS	
DT 768	N / 6	6	SG	GF-2-3	14.0	105.0	6.3	102.8	96.7	92.1%		FAIL	DT-799	PASS	
DT 769	N / 7	6	SG	GF-2-3	14.0	105.0	7.6	107.5	99.9	95.1%	PASS				
DT 770	O / 7	6	SG	GF-2-3	14.0	105.0	7.8	102.8	95.4	90.8%		FAIL	DT-800	PASS	
DT 771	O / 8	6	SG	GF-2-3	14.0	105.0	6.6	104.8	98.3	93.6%		FAIL	DT-801	PASS	
DT 772	O / 9	6	SG	GF-2-3	14.0	105.0	6.7	109.8	102.9	98.0%	PASS				
DT 773	O / 10	6	SG	GF-2-3	14.0	105.0	7.1	110.8	103.5	98.5%	PASS				
DT 774	P / 11	6	SG	GF-2-3	14.0	105.0	8.1	105.3	97.4	92.8%		FAIL	DT-802	PASS	
DT 775	N / 11	6	SG	GF-2-3	14.0	105.0	6.1	108.9	102.6	97.7%	PASS				
DT 776	N / 11	6	SG	GF-2-3	14.0	105.0	8.3	110.8	102.3	97.4%	PASS				
DT 777	N / 10	6	SG	GF-2-3	14.0	105.0	9.5	112.3	102.6	97.7%	PASS				

COMMENTS: Area was regraded by Contractor and retested Drive Cylinder (DR-31) was taken on density test (DT-775)
Failures were recompacted and retested



GeoSyntec Consultants



FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT

J.E.D. SOLID WASTE FACILITY

LOCATION:

OSCEOLA COUNTY, FLORIDA

PROJECT NO.: FQ 0852 TASK NO.: 1

DESCRIPTION:

CELL 2 CONSTRUCTION

DATE: 22 Day FEBRUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION

MOISTURE RANGE NA

LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3

MATERIAL TYPE SILTY SAND

CORRECTION FACTOR Y =

N/A

NUCLEAR GAUGE TYPE Troxler 3430

GAUGE SERIAL 22295

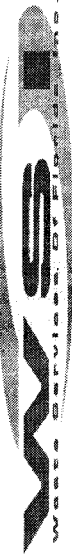
QA ID TA

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 786	J / 3	6	SG	GF-2-7	12.0	108.0	15.1	125.1	108.7	100.6%	PASS				
DT 787	J / 3	6	SG	GF-2-7	12.0	108.0	14.1	123.2	108.0	100.0%	PASS				
DT 788	K / 3	6	SG	GF-2-7	12.0	108.0	13.0	121.7	107.7	99.7%	PASS				
DT 789	K / 3	6	SG	GF-2-7	12.0	108.0	10.6	116.4	105.2	97.4%	PASS				
DT 790	K / 3	6	SG	GF-2-7	12.0	108.0	9.9	118.9	108.2	100.2%	PASS				
DT 791	K / 4	6	SG	GF-2-7	12.0	108.0	10.7	119.4	107.9	99.9%	PASS				
DT 792	L / 3	6	SG	GF-2-7	12.0	108.0	10.3	121.4	110.1	101.9%	PASS				
DT 793	L / 4	6	SG	GF-2-7	12.0	108.0	12.0	118.2	105.5	97.7%	PASS				
DT 794	L / 4	6	SG	GF-2-7	12.0	108.0	10.9	117.4	105.9	98.0%	PASS				
DT 795	L / 4	6	SG	GF-2-7	12.0	108.0	9.0	117.3	107.6	99.6%	PASS				
DT 796	L / 5	6	SG	GF-2-7	12.0	108.0	13.8	123.4	108.4	100.4%	PASS				
DT 797	M / 4	6	SG	GF-2-7	12.0	108.0	9.6	114.8	104.7	97.0%	PASS				

COMMENTS: Area was regraded by Contractor and retested



Geosyntec Consultants



FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT: J.E.D. SOLID WASTE FACILITY
LOCATION: OSCEOLA COUNTY, FLORIDA
DESCRIPTION: CELL 2 CONSTRUCTION
PROJECT NO.: FQ 0852 TASK NO.: 1
DATE: 23 Day FEBRUARY Month 2006 Year

SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION MOISTURE RANGE NA LIFT THICKNESS COMPACTED 8-in

MATERIAL SOURCE: Borrow Area B3 MATERIAL TYPE SILTY SAND CORRECTION FACTOR Y = N/A

NUCLEAR GAUGE TYPE Troxler 3430 GAUGE SERIAL 22295 QA ID TA

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FILED TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 798	N/5	6	SG	GF-2-3	14.0	105.0	4.5	105.5	101.0	96.1%	PASS				
DT 799	N/6	6	SG	GF-2-3	14.0	105.0	6.3	106.4	100.1	95.3%	PASS				
DT 800	O/7	6	SG	GF-2-3	14.0	105.0	7.7	108.3	100.6	95.8%	PASS				
DT 801	O/8	6	SG	GF-2-3	14.0	105.0	6.8	106.7	99.9	95.1%	PASS				
DT 802	P/11	6	SG	GF-2-3	14.0	105.0	8.0	108.5	100.5	95.7%	PASS				
DT 803	J/2	6	SG	GF-2-3	14.0	105.0	10.0	110.6	100.5	95.8%	PASS				
DT 804	K/2	6	SG	GF-2-3	14.0	105.0	9.5	109.3	99.8	95.1%	PASS				
DT 805	K/2	6	SG	GF-2-3	14.0	105.0	7.0	110.1	102.9	98.0%	PASS				
DT 806	L/3	6	SG	GF-2-3	14.0	105.0	5.5	108.9	103.2	98.3%	PASS				
DT 807	L/3	6	SG	GF-2-7	12.0	108.0	5.2	108.8	103.4	95.8%	PASS				
DT 808	M/3	6	SG	GF-2-7	12.0	108.0	4.8	109.0	104.0	96.3%	PASS				
DT 809	N/4	6	SG	GF-2-7	12.0	108.0	6.0	108.9	102.7	95.1%	PASS				
DT 810	N/5	6	SG	GF-2-7	12.0	108.0	4.9	108.1	103.1	95.4%	PASS				
DT 811	N/5	6	SG	GF-2-7	12.0	108.0	5.9	108.9	102.8	95.2%	PASS				
DT 812	O/6	6	SG	GF-2-7	12.0	108.0	6.6	109.4	102.6	95.0%	PASS				

COMMENTS: Drive Cylinder (DR-32) taken on density test (DT-800)
Area was regraded by Contractor and retested

Field Nuclear Density Test Log



GEOSYNTEC CONSULTANTS



FIELD NUCLEAR MOISTURE/DENSITY TEST LOG

(ASTM D 3017 AND ASTM D 2922)

PROJECT J.E.D. SOLID WASTE FACILITY
LOCATION: OSCEOLA COUNTY, FLORIDA PROJECT NO.: FQ 0852 TASK NO.: 1
DESCRIPTION: CELL 2 CONSTRUCTION DATE: 23 Day FEBRUARY Month 2006 Year
SPECIFICATION REQUIREMENTS: ASTM D 698 95% COMPACTION MOISTURE RANGE NA LIFT THICKNESS COMPACTED 8-in
MATERIAL SOURCE: Borrow Area B3 MATERIAL TYPE SILTY SAND CORRECTION FACTOR Y = N/A
NUCLEAR GAUGE TYPE Troxler 3430 GAUGE SERIAL 22295 QA ID TA

TEST NO.	TEST LOCATION	PROBE DEPTH	LIFT NO.	LAB RESULTS			FIELD TEST RESULTS							RETEST	
				SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT	PASS	FAIL	RETEST NO.	PASS	FAIL
DT 813	O / 6	6	SG	GF-2-3	14.0	105.0	5.8	106.2	100.4	95.6%	PASS				
DT 814	O / 7	6	SG	GF-2-3	14.0	105.0	6.0	108.1	102.0	97.1%	PASS				
DT 815	O / 7	6	SG	GF-2-3	14.0	105.0	6.3	106.6	100.3	95.5%	PASS				
DT 816	O / 8	6	SG	GF-2-3	14.0	105.0	5.0	106.7	101.6	96.8%	PASS				
DT 817	O / 8	6	SG	GF-2-3	14.0	105.0	4.6	107.5	102.8	97.9%	PASS				
DT 818	P / 9	6	SG	GF-2-3	14.0	105.0	6.9	109.1	102.1	97.2%	PASS				
DT 819	P / 9	6	SG	GF-2-3	14.0	105.0	7.0	108.2	101.1	96.3%	PASS				
DT 820	P / 10	6	SG	GF-2-3	14.0	105.0	4.8	107.3	102.4	97.5%	PASS				
DT 821	P / 10	6	SG	GF-2-3	14.0	105.0	5.6	106.9	101.2	96.4%	PASS				
DT 822	P / 11	6	SG	GF-2-7	12.0	108.0	5.6	108.4	102.7	95.0%	PASS				
DT 823	P / 11	6	SG	GF-2-7	12.0	108.0	7.2	110.7	103.3	95.6%	PASS				
DT 824	P / 12	6	SG	GF-2-7	12.0	108.0	7.7	111.3	103.3	95.7%	PASS				

COMMENTS: Area was regraded by Contractor and retested



Trial Seam Log - Fusion

Project: <u>J.E.D. Solid Waste Landfill</u>	ProjNo: <u>FQ0852</u>	TaskNo: <u>01</u>
Location: <u>1501 Omni Way St Cloud Florida</u>		
Description: <u>Cell 2 Construction</u>		
Tensiometer Description: COLUMBINE ACRU LITE 72-22		
Material Type	gml : 1	Peel Inside: 78 psi
		Shear: 120 psi
		Peel Outside: 78 psi

Trial Seam No	Date	Time	Mach ID	Oper ID	Mat Desc	Fusion		Test Results				QA ID
						Wedge ° Celsius	Speed ft./Min	Peel	Shear	Unit ppi/psi	Result	
1-0001	2/17/2006	10:20	7547	OF	S / S	800	7.0	8/105, 147/	204, 181	ppi	P	DH
1-0002	2/17/2006	10:20	75200023	JP	S / S	800	7.0	0/99, 114/1	170/184	ppi	P	DH
1-0003	2/17/2006	13:30	75200022	BR	S / S	800	7.5	0/115, 92/1	180, 172	ppi	P	DH
1-0004	2/17/2006	13:30	7520003	JP	S / S	800	7.0	0/107, 100/1	157, 156	ppi	P	DH
1-0005	2/18/2006	9:10	7547	OF	S / S	800	7.0	4/141, 147/1	167, 165	ppi	P	DH
1-0006	2/18/2006	9:22	75200022	BR	S / S	800	7.5	1/115, 139/1	177, 178	ppi	P	RH
1-0007	2/18/2006	9:30	75200023	JP	S / S	800	7.2	5/110, 110/1	175, 169	ppi	P	RH
1-0008	2/18/2006	13:21	75200022	BR	S / S	800	7.5	2/95, 116/1	162, 162	ppi	P	DH
1-0009	2/23/2006	7:15	7547	OF	S / S	800	7.0	5/105, 114/1	176, 172	ppi	P	RH
1-0010	2/23/2006	7:20	75200023	JP	S / S	800	7.2	4/113, 115/1	189, 190	ppi	P	RH
1-0011	2/23/2006	8:04	75200022	BR	S / S	800	7.5	3/103, 114,1	180, 171	ppi	P	RH
1-0012	2/23/2006	13:45	75200023	JP	S / S	800	7.5	0/122, 133/1	168, 262	ppi	P	DH
1-0013	2/23/2006	13:50	7547	OF	S / T	800	7.5	5/127, 117/1	179, 178	ppi	P	DH
1-0014	2/23/2006	13:52	75200022	BR	S / S	800	7.0	5/131, 112/1	194, 198	ppi	P	DH
1-0015	2/24/2006	6:55	7547	OF	S / S	800	7.5	3/140, 122/1	192, 186	ppi	P	DH
1-0016	2/24/2006	6:56	75200023	JP	S / S	800	7.2	4/115, 125/1	197, 196	ppi	P	DH
1-0017	2/24/2006	7:12	75200012	BR	S / S	800	7.5	5/130, 106/1	194, 193	ppi	P	DH
1-0018	2/24/2006	8:20	7537	OF	S / T	800	7.0	5/131, 112/1	194, 198	ppi	P	DH
1-0019	2/27/2006	8:20	7537	OF	S / S	800	7.0	3/129, 124/1	200, 209	ppi	p	DH
1-0020	2/27/2006	8:25	75200023	JP	S / S	800	7.2	1/123, 136/1	209, 207	ppi	p	DH
1-0021	2/27/2006	8:30	75200022	BR	S / S	800	7.5	1/121, 119/1	214, 194	ppi	p	DH
1-0022	2/27/2006	12:45	7537	OF	S / S	800	7.5	3/113, 103/1	188, 204	ppi	p	DH
1-0023	2/27/2006	12:45	75200023	JP	S / S	800	7.5	1/122, 124/1	181, 195	ppi	p	DH
1-0024	2/27/2006	12:45	75200022	BR	S / S	800	7.5	3/117, 123/1	185, 199	ppi	p	DH
1-0025	2/27/2006	13:25	75200023	JP	T / T	800	7.5	0/128, 117/1	171, 176	ppi	p	DH
1-0026	2/28/2006	8:30	7537	OF	S / S	800	7.0	4/143, 108/1	191, 195	ppi	p	DH
1-0027	2/28/2006	8:30	75200023	JP	S / S	800	7.2	0/111, 115/1	191, 199	ppi	p	DH
1-0028	2/28/2006	8:43	75200022	BR	S / S	800	7.5	5/122, 113/1	194, 196	ppi	p	DH
1-0029	2/28/2006	9:10	75200023	JP	T / T	800	7.2	7/122, 109/1	220, 223	ppi	p	DH
1-0030	2/28/2006	10:10	75200023	JP	S / T	800	7.5	9/109, 117/1	169, 163	ppi	p	DH
1-0031	2/28/2006	13:25	7537	OF	S / S	800	7.5	3/105, 125/1	167, 166	ppi	p	DH
1-0032	2/28/2006	13:26	75200023	JP	S / S	800	7.5	7/118, 135/1	174, 170	ppi	p	DH
1-0033	2/28/2006	13:35	75200022	BR	S / S	800	7.5	5/118, 110/1	167, 160	ppi	p	DH
1-0034	3/4/2006	7:50	75200023	JP	S/S	800	7.5	4/105-106/	178-173	ppi	P	DH



Trial Seam Log - Fusion

Project: <u>J.E.D. Solid Waste Landfill</u>	ProjNo: <u>FQ0852</u>	TaskNo: <u>01</u>
Location: <u>1501 Omni Way St Cloud Florida</u>		
Description: <u>Cell 2 Construction</u>		
Tensiometer Description: <u>COLUMBINE ACRU LITE 72-22</u>		
Material Type	gml : 1	Peel Inside: 78 psi
		Shear: 120 psi
		Peel Outside: 78 psi

Trial Seam No	Date	Time	Mach ID	Oper ID	Mat Desc	Fusion		Test Results				QA ID
						Wedge ° Celsius	Speed ft./Min	Peel	Shear	Unit ppi/psi	Result	
1-0035	3/4/2006	7:50	7537	OF	S/S	800	7.0	1/88-109/1	179-179	ppi	P	DH
1-0037	3/4/2006	7:56	75200023	JP	T/T	800	7.5	5/112-119/	151-143	ppi	P	DH
1-0038	3/4/2006	7:57	7537	OF	T/T	800	7.0	3/120-127/	153-148	ppi	P	DH
1-0039	3/4/2006	9:48	7537	OF	T/S	800	7.0	9/107-103/5	149-148	ppi	P	DH
1-0040	3/4/2006	14:32	75200023	JP	S/S	800	7.5	34/85-92/85	139-132	ppi	P	DH
1-0041	3/4/2006	14:49	75200022	BR	S/S	800	7.5	34/95-82/84	127-133	ppi	P	DH
1-0042	3/4/2006	14:49	75200022	BR	T/S	800	7.5	3/116-91/1	130-147	ppi	P	DH
1-0043	3/4/2006	14:49	75200022	BR	T/T	800	7.5	4/120-107/1	129-123	ppi	P	DH
1-0044	3/4/2006	17:02	75200023	JP	T/S	800	7.5	2/114-107/1	151-173	ppi	P	DH
1-0036	3/4/2006	7:55	75200022	BR	S/S	800	7.5	5/108-107/	182-180	ppi	P	DH
1-0045	3/6/2006	10:45	75200016	DL	T/T	800	5.7	9/111-112/	155-150	ppi	P	DH
1-0046	3/7/2006	8:15	75200023	JP	S/S	800	7.5	4/112-111/	147-169	ppi	P	DH
1-0047	3/7/2006	8:25	75200022	BR	S/S	800	7.5	2/118-118/	208-218	ppi	P	DH
1-0048	3/7/2006	8:26	7537	OF	S/S	800	7.0	2/92-116/1	171-186	ppi	P	DH
1-0049	3/7/2006	8:32	75200016	DL	S/S	800	5.7	4/114-115/	162-155	ppi	P	DH
1-0050	3/9/2006	8:36	75200023	JP	S/S	800	7.0	2-137 120-	209-167	psi	P	DH
1-0051	3/9/2006	8:37	75200022	BR	T/T	800	7.0	5-172 147-	171-176	psi	P	DH
1-0052	3/9/2006	8:38	75200023	JP	S/T	800	7.5	4-156 137-	166-170	psi	P	DH
1-0053	3/9/2006	8:39	75200023	JP	T/T	800	7.5	0-149 151-	177-173	psi	P	DH
1-0054	3/9/2006	8:40	7537	OF	T/T	800	7.0	5-156 151-	169-170	psi	P	DH
1-0055	3/9/2006	8:41	7537	OF	S/S	800	7.0	3-123 109-	186-173	psi	P	DH
1-0056	3/9/2006	8:42	7537	OF	S/T	800	7.0	1-161 142-	191-184	psi	P	DH
1-0057	3/9/2006	8:43	75200022	BR	S/T	800	7.5	0-144 121-	161-156	psi	P	DH
1-0058	3/9/2006	8:44	75200022	BR	S/S	800	7.5	3-127 118-	178-190	psi	P	DH
1-0059	3/9/2006	9:17	7539	DL	S/T	800	6.2	9-114 135-	160-167	psi	P	DH
1-0060	3/9/2006	9:20	7539	DL	S/S	800	6.2	-103 113-1	178-173	psi	P	DH
1-0061	3/9/2006	9:21	7539	DL	T/T	800	6.2	3-123 124-	166-159	psi	P	DH
1-0062	3/9/2006	13:25	7539	DL	T/T	800	6.2	5-150 130-	175-157	psi	P	DH
1-0063	3/9/2006	13:25	7539	DL	S/T	800	6.2	3-122 98-1	160-184	psi	P	DH
1-0064	3/9/2006	13:26	7537	OF	S/S	800	7.0	7-131 121-	185-190	psi	P	DH
1-0065	3/9/2006	13:27	75200023	JP	T/T	800	7.6	3-108 123-	177-193	psi	P	DH
1-0066	3/9/2006	13:28	75200023	JP	S/S	800	7.6	0-117 109-	190-177	psi	P	DH
1-0067	3/9/2006	13:29	75200022	BR	S/S	800	7.5	1-109 114-	153-171	psi	P	DH
1-0068	3/9/2006	13:30	7539	DL	S/S	800	6.2	9-129 126-	173-174	psi	P	DH



Trial Seam Log - Fusion

Project:	J.E.D. Solid Waste Landfill		
Location:	1501 Omni Way St Cloud Florida	ProjNo:	FQ0852
Description:	Cell 2 Construction	TaskNo:	01
Tensiometer Description: COLUMBINE ACRU LITE 72-22			
Material Type	gml : 1	Peel Inside:	78 psi
		Peel Outside:	78 psi
		Shear:	120 psi

Trial Seam No	Date	Time	Mach ID	Oper ID	Mat Desc	Fusion		Test Results				QA ID
						Wedge ° Celsius	Speed ft./Min	Peel	Shear	Unit ppi/psi	Result	
1-0069	3/9/2006	13:31	75200022	BR	T/T	800	7.5	9-154 145-	168-157	psi	P	DH
1-0070	3/9/2006	13:32	7537	OF	T/T	800	7.0	8-139 116-	173-196	psi	P	DH
1-0071	3/9/2006	13:33	7537	OF	S/T	800	7.0	-103 110-1	171-169	psi	P	DH
1-0072	3/11/2006	8:25	75200022	JP	S/T	800	7.5	2-129 142-	168-162	psi	P	DH
1-0073	3/11/2006	8:26	75200022	BR	T/T	800	7.5	3-136 141-	160-129	psi	P	DH
1-0074	3/11/2006	8:27	75200022	BR	S/S	800	7.5	2-120 121-	162-159	psi	P	DH
1-0075	3/11/2006	8:28	7537	OF	T/T	800	6.0	0-120 121-	162-162	psi	P	DH
1-0076	3/11/2006	8:29	7537	OF	S/T	800	6.0	5-140 125-	135-130	psi	P	DH
1-0077	3/11/2006	8:30	75200023	JP	T/T	800	7.5	-	-	psi	F	DH
1-0078	3/11/2006	8:31	7537	OF	S/S	800	6.0	08-91 93-9	141-151	psi	P	DH
1-0079	3/11/2006	8:32	75200023	JP	S/T	800	7.5	7-115 117-	164-151	psi	P	DH
1-0080	3/11/2006	8:33	75200023	JP	S/S	800	7.5	1-120 115-	170-181	psi	P	DH
1-0081	3/11/2006	8:34	7539	DL	S/S	800	6.5	5-114 141-	175-169	psi	P	DH
1-0082	3/11/2006	8:35	7539	DL	S/T	800	6.5	3-123 135-	133-131	psi	P	DH
1-0083	3/11/2006	8:36	7539	DL	T/T	800	6.5	1-130 122-	135-128	psi	P	DH
1-0084	3/13/2006	8:15	7537	OF	S/S	800	6.0	7-115 117-	183-174	psi	P	DH
1-0085	3/13/2006	8:16	7537	OF	S/T	800	6.0	2-103 125-	158-157	psi	P	DH
1-0086	3/13/2006	8:17	75200023	JP	S/S	800	7.5	6-113 116-	169-168	psi	P	DH
1-0087	3/13/2006	8:18	75200022	BR	S/S	800	7.5	0-133 115	164-164	psi	P	DH
1-0088	3/13/2006	8:19	75200022	BR	T/T	800	7.5	2-125 119-	140-142	psi	P	DH
1-0089	3/15/2006	8:20	75200023	JP	S/S	800	7.5	2-128 121-	193-195	psi	P	DH
1-0090	3/15/2006	8:21	7537	OF	S/S	800	6.0	1-113 112-	180-183	psi	P	DH
1-0091	3/15/2006	8:22	75200022	BR	S/S	800	7.5	2-125 118-	198-195	psi	P	DH
1-0092	3/15/2006	8:23	7539	DL	S/S	800	6.5	3-140 121-	174-187	psi	P	DH
1-0093	3/15/2006	13:05	7539	DL	S/S	800	7.2	2-120 129-	174-164	psi	P	DH
1-0094	3/15/2006	13:06	75200022	BR	S/S	800	7.5	6-110 116-	172-151	psi	P	DH
1-0095	3/18/2006	9:30	75200023	JP	T/T	800	7.5	0-137 138-	156-154	psi	P	DH
1-0096	3/18/2006	9:36	75200023	JP	S/S	800	7.5	6-107 123-	164-163	psi	P	DH
1-0097	3/18/2006	9:36	7537	OF	S/S	800	7.0	3-104 123-	173-165	psi	P	DH
1-0098	3/18/2006	9:36	7537	OF	T/T	800	7.0	0-135 122-	148-142	psi	P	DH
1-0099	3/18/2006	9:40	7539	DL	S/S	800	7.2	4-112 122-	165-162	psi	P	DH
1-0100	3/18/2006	9:40	7539	OF	T/T	800	7.2	3-137 136-	155-153	psi	P	DH
1-0101	3/18/2006	9:40	75200022	BR	S/S	800	7.5	4-103 107-	170-161	psi	P	DH
1-0102	3/18/2006	9:40	75200022	BR	T/T	800	7.5	5-146 132-	134-143	psi	P	DH



Trial Seam Log - Fusion

Project: <u>J.E.D. Solid Waste Landfill</u>	ProjNo: <u>FQ0852</u>	TaskNo: <u>01</u>
Location: <u>1501 Omni Way St Cloud Florida</u>		
Description: <u>Cell 2 Construction</u>		
Tensiometer Description: COLUMBINE ACRU LITE 72-22		
Material Type: <u>gml : 1</u>	Peel Inside: <u>78 psi</u>	Shear: <u>120 psi</u>
	Peel Outside: <u>78 psi</u>	

Trial Seam No	Date	Time	Mach ID	Oper ID	Mat Desc	Fusion		Test Results				QA ID
						Wedge ° Celsius	Speed ft./Min	Peel	Shear	Unit ppi/psi	Result	
1-0103	3/18/2006	13:30	7537	OF	S/S	800	7.5	0-119 108-	158-160	psi	P	DH
1-0104	3/18/2006	13:30	75200023	JP	S/S	800	7.5	5-114 111-	142-140	psi	P	DH
1-0105	3/18/2006	13:30	7539	DL	S/S	800	7.5	6-96 105-1	141-135	psi	P	DH
1-0106	3/18/2006	13:30	75200022	BR	S/S	800	7.5	9-110 108-5	136-129	psi	P	DH
1-0107	3/18/2006	13:30	7537	OF	T/T	800	7.5	1-107 118-1	123-120	psi	P	DH
1-0108	3/18/2006	13:30	75200023	JP	T/T	800	7.5	3-122 116-	121-122	psi	P	DH
1-0109	3/18/2006	13:30	7539	DL	T/T	800	7.5	5-100 102-	131-132	psi	P	DH
1-0110	3/18/2006	13:30	75200022	BR	T/T	800	7.5	2-108 95-1	127-135	psi	P	DH
1-0111	3/20/2006	7:13	7539	DL	T/T	800	6.2	3-147 138-	166-153	psi	P	DH
1-0112	3/21/2006	6:45	7539	DL	S/S	800	6.3	9-120 123-	170-169	psi	P	DH
1-0113	3/21/2006	6:45	75200023	JP	T/T	800	7.5	0-127 13-1	152-156	psi	P	DH
1-0114	3/21/2006	6:45	7537	OF	S/T	800	5.5	9-110 141-1	169-160	psi	P	DH
1-0115	3/21/2006	6:45	75200022	BR	T/T	800	7.5	3-137 143-	171-177	psi	P	DH
1-0116	3/21/2006	6:45	75200023	JP	S/S	800	7.5	5-112 118-	158-158	psi	P	DH
1-0117	3/21/2006	6:45	7537	OF	S/S	800	5.5	2-121 120-	174-176	psi	P	DH
1-0118	3/21/2006	6:45	75200022	BR	S/S	800	7.5	7-131 122-	169-173	psi	P	DH
1-0119	3/21/2006	6:45	7539	DL	T/T	800	6.3	0-138 127-	170-179	psi	P	DH
1-0120	3/21/2006	6:45	7537	OF	T/T	800	5.5	4-115 112-	162-133	psi	P	DH
1-0121	3/21/2006	9:20	75200022	BR	S/T	800	7.5	2-130 111-	144-159	psi	P	DH
1-0122	3/22/2006	9:00	75200023	JP	S/S	800	7.5	4-127 136-	188-192	psi	P	DH
1-0123	3/22/2006	9:00	7537	OF	S/S	800	6.5	1-117 112-	180-178	psi	P	DH
1-0124	3/22/2006	9:00	75200022	BR	S/S	800	7.5	2-112 125-	181-183	psi	P	DH
1-0125	3/22/2006	9:00	7539	DL	S/S	800	6.3	7-116 115-	161-159	psi	P	DH
1-0126	3/22/2006	9:00	75200023	JP	T/T	800	7.5	1-147 150-	167-149	psi	P	DH
1-0127	3/22/2006	9:00	7537	OF	T/T	800	6.5	7-130 144-	155-153	psi	P	DH
1-0128	3/22/2006	9:00	75200022	BR	T/T	800	7.5	3-145 145-	144-160	psi	P	DH
1-0129	3/22/2006	9:00	7539	DL	T/T	800	6.3	9-134 142-	170-171	psi	P	DH
1-0130	3/22/2006	9:00	7537	OF	T/T	800	6.5	0-96 140-1	169-167	psi	P	DH
1-0131	3/22/2006	9:00	75200022	BR	T/T	800	7.5	7-149 119-	167-172	psi	P	DH
1-0132	3/22/2006	14:00	75200022	JP	S/T	800	7.5	3-104 119-	139-147	psi	P	DH
1-0133	3/22/2006	14:00	75200022	JP	S/T	800	7.5	9-120 116-	144-146	psi	P	DH
1-0134	3/22/2006	15:00	7539	DL	S/T	800	7.5	1-118 115-	144-137	psi	P	DH
1-0135	3/22/2006	15:00	7539	DL	T/T	800	7.5	1-126 143-	141-138	psi	P	DH
1-0136	3/27/2006	8:30	75200023	JP	T/T	800	7.5	3-135 137-	187-183	psi	P	DH



Trial Seam Log - Fusion

Project: <u>J.E.D. Solid Waste Landfill</u>	ProjNo: <u>FQ0852</u>	TaskNo: <u>01</u>
Location: <u>1501 Omni Way St Cloud Florida</u>		
Description: <u>Cell 2 Construction</u>		
Tensiometer Description: COLUMBINE ACRU LITE 72-22		

Material Type	gml : 1	Peel Inside: 78 psi	Shear: 120 psi
		Peel Outside: 78 psi	

Trial Seam No	Date	Time	Mach ID	Oper ID	Mat Desc	Fusion		Test Results				QA ID
						Wedge ° Celsius	Speed ft./Min	Peel	Shear	Unit ppi/psi	Result	
1-0137	3/27/2006	8:30	75200023	JP	S/S	800	7.5	0-117 118-	193-188	psi	P	DH
1-0138	3/27/2006	8:30	7539	DL	S/S	800	6.5	3-111 117-	192-188	psi	P	DH
1-0139	3/27/2006	8:30	7539	DL	T/T	800	6.5	0-131 148-	193-190	psi	P	DH
1-0140	3/27/2006	8:30	7537	OF	T/T	800	-6.0	4-134 127-	174-172	psi	P	DH
1-0141	3/27/2006	8:30	75200022	BR	S/S	800	7.5	2-131 124-	192-185	psi	P	DH
1-0142	3/27/2006	8:30	75200022	BR	T/T	800	7.5	0-132 129-	183-174	psi	P	DH
1-0143	3/27/2006	13:00	7539	DL	S/S	800	7.5	5-104 121-	165-173	psi	P	DH
1-0144	3/27/2006	13:00	7539	DL	T/T	800	7.5	8-86 124-	142-142	psi	P	DH
1-0145	3/27/2006	13:00	75200023	JP	T/T	800	7.5	-123 146-1	158-156	psi	P	DH
1-0146	3/27/2006	13:00	75200023	JP	S/S	800	7.5	1-111 111-	173-172	psi	P	DH
1-0147	3/27/2006	13:00	75200022	BR	T/T	800	7.5	0-136 137-	158-147	psi	P	DH
1-0148	3/27/2006	13:00	75200022	BR	S/S	800	7.5	3-113 123-	168-165	psi	P	DH

Trial Seam Log - Extrusion

Project: <u>J.E.D. Solid Waste Landfill</u>													
Location: <u>1501 Omni Way St Cloud Florida</u>							ProjNo: <u>FQ0852</u>				TaskNo: <u>01</u>		
Description: <u>Cell 2 Construction</u>													
Tensiometer Description: COLUMBINE ACRU LITE 72-22													
Material Type		gml : 1			Peel: 70 psi			Shear: 108 psi					
Trial Seam No	Date	Time	Mach ID	Oper ID	Mat Desc	Extrusion		Test Results				Retest No	QA ID
						Pre heat ° Celsius	Barrel ° Celsius	Peel	Shear	Unit ppi/psi	Result P/F		
1-0001	2/18/2006	12:00	74300014	JP	T / T	320	470	151,167	182,174	ppi	P		DH
1-0002	2/18/2006	12:00	74300002	OF	T / T	380	480	95, 95	174, 163	ppi	P		DH
1-0003	2/20/2006	12:00	74300014	JP	T / T	340	480	147,138	243,232	ppi	P		RH
1-0004	2/23/2006	12:00	74300002	AN	T / T	375	480	126,135	149, 151	ppi	P		RH
1-0005	2/23/2006	12:00	74300002	LS	T / T	375	480	114,114	130, 142	ppi	P		RH
1-0006	2/24/2006	12:00	74300002	AN	T / T	380	480	107, 111	126, 140	ppi	P		RH
1-0007	2/24/2006	12:00	74300014	LS	T / T	380	480	128, 130	164, 163	ppi	P		RH
1-0008	2/24/2006	12:00	74300002	JP	T / T	330	480	137,144	159,169	ppi	P		RH
1-0009	2/25/2006	12:00	74300002	JP	T / T	340	480	155,137	171,177	ppi	p		RH
1-0010	2/25/2006	12:00	74300014	OF	T / T	380	480	162,159	165,165	ppi	p		RH
1-0011	2/25/2006	12:00	74300014	LS	T / T	380	480	145,141	163,159	ppi	p		RH
1-0012	2/27/2006	12:00	74300014	LS	T / T	380	480	136,152	170,176	ppi	p		RH
1-0013	2/27/2006	12:00	74300014	EC	T / T	380	480	129,150	174,170	ppi	p		RH
1-0014	2/27/2006	12:00	74300002	JP	T / T	240	480	155, 130	180,182	ppi	p		RH
1-0015	2/28/2006	12:00	74300002	JP	T / T	240	480	146,151	167,169	ppi	p		RH
1-0016	2/28/2006	12:00	74300002	JP	T / T	300	480	129,125	144,144	ppi	p		RH
1-0017	3/1/2006	12:00	74300002	JP	T / T	250	480	148,155	199,201	ppi	p		RH
1-0018	3/1/2006	12:00	74300002	OF	T / T	250	480	125,129	202,202	ppi	p		RH
1-0019	3/1/2006	12:00	74300014	LS	T / T	300	480	148,171	167,182	ppi	p		RH
1-0020	3/1/2006	12:00	74300014	EC	T / T	240	460	141,141	183,143	ppi	p		RH
1-0021	3/3/2006	13:10	74300014	AN	T/T	375	480	86-86	108-108	ppi	P		DH
1-0022	3/3/2006	13:20	74300002	JP	T/T	300	480	135-130	177-187	ppi	P		DH
1-0023	3/3/2006	13:20	74300002	OF	T/T	300	480	125-125	170-171	ppi	P		DH
1-0025	3/4/2006	13:55	74300014	OF	T/T	380	480	100-101	115-121	ppi	P		DH
1-0024	3/4/2006	15:50	74300014	LS	T/T	380	480	112-88	123-135	ppi	P		DH
1-0027	3/6/2006	7:08	74300002	JP	T/T	340	480	152-162	160-194	ppi	P		DH
1-0026	3/6/2006	7:07	74300014	LS	T/T	370	480	101-94	154-144	ppi	P		DH
1-0028	3/6/2006	13:50	74300002	JP	T/T	300	480	145-128	153-156	ppi	P		DH
1-0029	3/7/2006	14:13	74300002	JP	T/T	260	480	118-127	156-174	ppi	P		DH
1-0030	3/7/2006	16:15	74300014	LS	T/T	300	480	143-149	147-162	ppi	P		DH
1-0031	3/8/2006	9:30	74300002	JP	T/T	300	480	163-166	217-214	psi	P		DH
1-0032	3/8/2006	9:40	74300002	JP	T/T	330	480	172-177	197-204	psi	P		DH
1-0033	3/8/2006	13:25	74300002	JP	T/T	300	480	123-128	190-185	psi	P		DH
1-0034	3/9/2006	14:55	74300014	LS	T/T	300	480	97-96	143-149	psi	P		DH

Trial Seam Log - Extrusion

Project: <u>J.E.D. Solid Waste Landfill</u>	ProjNo: <u>FQ0852</u>	TaskNo: <u>01</u>
Location: <u>1501 Omni Way St Cloud Florida</u>		
Description: <u>Cell 2 Construction</u>		
Tensiometer Description: <u>COLUMBINE ACRU LITE 72-22</u>		

Material Type	gml : 1	Peel: 70 psi	Shear: 108 psi
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Trial Seam No	Date	Time	Mach ID	Oper ID	Mat Desc	Extrusion		Test Results				Retest No	QA ID
						Pre heat ° Celsius	Barrel ° Celsius	Peel	Shear	Unit psi/psi	Result P/F		
1-0035	3/10/2006	7:20	74300002	JP	T/T	300	480	158-144	214-233	psi	P		DH
1-0036	3/13/2006	10:11	74300002	JP	T/T	300	480	92-118	148-148	psi	P		DH
1-0037	3/13/2006	11:10	74300014	BR	T/T	280	460	112-107	120-122	psi	P		DH
1-0038	3/13/2006	14:18	74300014	BR	T/T	300	450	90-121	146-146	psi	P		DH
1-0039	3/13/2006	14:19	74300002	JP	T/T	280	480	123-125	145-143	psi	P		DH
1-0040	3/13/2006	14:19	7402	BR	T/T	300	450	121-90	150-149	psi	P		DH
1-0041	3/15/2006	13:10	74300002	JP	T/T	300	480	150-149	163-164	psi	P		DH
1-0042	3/16/2006	7:10	74300002	JP	T/T	350	480	121-126	151-173	psi	P		DH
1-0043	3/16/2006	8:20	7402	AB	T/T	280	480	102-93	160-166	psi	P		DH
1-0044	3/16/2006	13:58	74300002	JP	T/T	280	480	133-133	158-1 3	psi	P		DH
1-0045	3/20/2006	7:10	74300002	JP	T/T	350	480	158-150	179-181	psi	P		DH
1-0046	3/20/2006	7:10	74300002	OF	T/T	350	480	161-161	184-175	psi	P		DH
1-0047	3/20/2006	8:25	7402	AN	T/T	300	480	99-130	130-138	psi	P		DH
1-0048	3/20/2006	13:00	74300002	OF	T/T	250	480	127-126	150-137	psi	P		DH
1-0049	3/20/2006	13:00	7402	IL	T/T	280	480	142-134	152-173	psi	P		DH
1-0050	3/21/2006	10:30	7402	AN	T/T	340	480	110-109	130-135	psi	P		DH
1-0051	3/21/2006	12:30	74300002	JP	T/T	300	480	129-136	144-154	psi	P		DH
1-0052	3/22/2006	14:00	74300002	OF	T/T	300	480	122-123	142-145	psi	P		DH
1-0053	3/22/2006	15:15	74300014	AN	T/T	280	480	118-132	122-125	psi	P		DH
1-0054	3/22/2006	16:40	7402	LS	T/T	300	460	134-129	169-164	psi	P		DH
1-0055	3/23/2006	7:05	7402	LS	T/T	300	460	132-129	162-169	psi	P		DH
1-0056	3/24/2006	8:30	74300013	JC	T/T	475	510	127-107	161-167	psi	P		DH
1-0057	3/24/2006	8:35	7439	AN	T/T	300	480	123-133	159-170	psi	P		DH
1-0058	3/24/2006	10:40	74300011	LS	T/T	300	480	120-104	135-139	psi	P		DH
1-0059	3/24/2006	13:38	74300013	JC	T/T	475	510	128-136	141-153	psi	P		DH
1-0060	3/24/2006	13:40	7439	IL	T/T	300	480	89-112	136-149	psi	P		DH
1-0061	3/25/2006	8:30	7439	JA	T/T	360	480	136-131	174-176	psi	P		DH
1-0062	3/27/2006	7:40	74300011	FB	T/T	385	480	105-103	205-205	psi	P		DH
1-0063	3/27/2006	13:00	74300011	LS	T/T	300	480	124-128	133-139	psi	P		DH
1-0064	3/27/2006	13:05	74300011	FB	T/T	300	480	128-143	145-152	psi	P		DH
1-0065	3/27/2006	14:45	7434	JP	T/T	300	480	128-138	140-150	psi	P		DH
1-0066	3/28/2006	7:00	74300011	LS	T/T	380	480	130-127	173-171	psi	P		DH
1-0067	3/28/2006	7:00	74300011	FB	T/T	380	480	137-133	177-165	psi	P		DH
1-0068	3/28/2006	13:30	74300011	LS	T/T	360	470	129-128	135-136	psi	P		DH

Trial Seam Log - Extrusion

Project: <u>J.E.D. Solid Waste Landfill</u>	ProjNo: <u>FQ0852</u>	TaskNo: <u>01</u>
Location: <u>1501 Omni Way St Cloud Florida</u>		
Description: <u>Cell 2 Construction</u>		
Tensiometer Description: COLUMBINE ACRU LITE 72-22		

Material Type	gml : 1	Peel:	70 psi	Shear:	108 psi								
Trial Seam No	Date	Time	Mach ID	Oper ID	Mat Desc	Extrusion		Test Results				Retest No	QA ID
						Pre heat ° Celsius	Barrel ° Celsius	Peel	Shear	Unit ppi/psi	Result P/F		
1-0069	3/28/2006	13:30	74300011	FB	T/T	360	470	136-126	146-145	psi	P		DH
1-0070	3/28/2006	14:00	7434	AN	T/T	300	480	121-142	144-135	psi	P		DH
1-0071	3/29/2006	7:00	74300011	LS	T/T	380	480	105,103	168,158	psi	P		DH
1-0072	3/29/2006	7:00	74300011	FB	T/T	380	480	131,138	175,177	psi	P		DH
1-0073	3/29/2006	12:30	74300011	FB	T/T	350	450	135,137	159,161	psi	P		DH



Panel Placement Log

Project: <u>J.E.D. Solid Waste Landfill</u>		TaskNo: <u>01</u>
Location: <u>1501 Omni Way St Cloud Florida</u>		
Description: <u>Cell 2 Construction</u>		

Primary / Secondary: Primary			Series: 2		Material Type: gml		
Panel	Batch-Roll	Date	Time	Placement/Location/Comments	Width (ft.)	Length (ft.)	QA ID
1	2675	2/28/2006	8:00	SW CORNER	22.5	30	RH
2	2675	2/28/2006	8:05	SW CORNER	22.5	11	RH
3	2675	2/28/2006	8:08	SW CORNER	15	9	RH
4	2675	2/28/2006	8:10	SW CORNER	22.5	25	RH
5	2675	2/28/2006	8:13	S ICB	22.5	37	RH
6	2675	2/28/2006	8:16	S ICB	22.5	36	RH
7	2675	2/28/2006	8:23	S ICB	22.5	36	RH
8	2675	2/28/2006	8:25	S ICB	22.5	36	RH
9	2675	2/28/2006	8:28	S ICB	22.5	36	RH
10	3109	2/28/2006	8:33	S ICB	22.5	34	RH
11	3109	2/28/2006	8:37	S ICB	22.5	35	RH
12	3109	2/28/2006	8:40	S ICB	22.5	34	RH
13	3109	2/28/2006	8:42	S ICB	22.5	34	RH
14	3109	2/28/2006	8:52	S ICB	22.5	34	RH
15	3109	2/28/2006	8:55	S ICB	22.5	34	RH
16	3109	2/28/2006	9:05	S ICB	22.5	34	RH
17	3109	2/28/2006	9:08	S ICB	22.5	34	RH
18	3109	2/28/2006	9:13	S ICB	22.5	32	RH
19	3109	2/28/2006	9:15	S ICB	22.5	32	RH
20	3109	2/28/2006	9:20	S ICB	22.5	31	RH
21	2789	2/28/2006	9:23	W BERM / FL	22.5	403	RH
22	2568	2/28/2006	9:33	W BERM S FL	22.5	404	RH
23	2669	2/28/2006	9:40	W BERM S FL	22.5	404	RH
24	2682	2/28/2006	9:45	W BERM S FL	22.5	403	RH
25	3228	2/28/2006	9:53	W BERM S FL	22.5	404	RH
26	2685	2/28/2006	10:20	W BERM S FL	22.5	404	RH
27	2671	2/28/2006	10:33	W BERM S FL	22.5	404	RH
28	3223	2/28/2006	11:16	W BERM S FL	22.5	404	RH
29	2788	3/7/2006	8:00	W BERM S FL	22.5	404	RH
30	2564	3/7/2006	20:15	w berm cell floor	22.5	404	RH



Panel Placement Log

Project: <u>J.E.D. Solid Waste Landfill</u>		TaskNo: <u>01</u>
Location: <u>1501 Omni Way St Cloud Florida</u>		
Description: <u>Cell 2 Construction</u>		

Primary / Secondary: Primary			Series: 2		Material Type: gml		
Panel	Batch-Roll	Date	Time	Placement/Location/Comments	Width (ft.)	Length (ft.)	QA ID
31	2560	3/7/2006	8:35	W BERM S FL	22.5	404	RH
32	2681	3/7/2006	8:41	E SLOPE	22.5	405	RH
33	2799	3/7/2006	8:45	W BERM S FL	22.5	405	RH
34	2334	3/7/2006	8:53	W BERM S FL	22.5	405	RH
35	3106	3/7/2006	9:05	W BERM S FL	22.5	405	RH
36	2678	3/7/2006	9:10	W BERM C FL	22.5	405	RH
37	2787	3/7/2006	9:30	W BERM C FL	22.5	405	RH
38	3115	3/7/2006	9:42	W BERM C FL	22.5	405	RH
39	3107	3/7/2006	10:00	W BERM C FL	22.5	404	RH
40	2792	3/7/2006	10:15	W BERM C FL	22.5	405	RH
41	3118	3/15/2006	8:26	W BERM C FL	22.5	405	RH
42	3116	3/15/2006	8:37	W BERM C FL	22.5	405	RH
43	2445	3/15/2006	8:47	W BERM C FL	22.5	404	RH
44	2674	3/15/2006	8:53	W BERM C FL	22.5	405	RH
45	3346	3/15/2006	8:55	W BERM C FL	22.5	405	RH
46	3101	3/15/2006	9:00	W BERM C FL	22.5	405	RH
47	3114	3/15/2006	9:04	W BERM C FL	22.5	405	RH
48	2679	3/15/2006	9:12	W BERM C FL	22.5	403	RH
49	3110	3/15/2006	10:00	W BERM C FL	22.5	404	RH
50	2680	3/15/2006	10:57	W BERM C FL	22.5	404	RH
51	2686	3/18/2006	9:05	East Slope	22.5	226	DH
52	2686	3/18/2006	9:10	East Slope	22.5	92	RH
53	2437	3/18/2006	9:12	cell floor	22.5	144	RH
54	237	3/18/2006	9:20	east slope	22.5	241	RH
55	2438	3/18/2006	9:30	east slope	22.5	250	RH
56	2438	3/18/2006	9:36	cell floor	22.5	150	RH
57	2443	3/18/2006	9:41	east slope	22.5	109	RH
58	2443	3/18/2006	10:00	east slope	22.5	228	RH
59	2448	3/18/2006	10:06	east slope	22.5	270	RH
60	2448	3/18/2006	10:10	cell floor	22.5	117	RH
61	3103	3/18/2006	10:30	east slope	22.5	153	RH



Panel Placement Log

Project: <u>J.E.D. Solid Waste Landfill</u>		Task No: <u>01</u>
Location: <u>1501 Omni Way St Cloud Florida</u>		
Description: <u>Cell 2 Construction</u>		

Primary / Secondary: Primary			Series: 2		Material Type: gml		
Panel	Batch-Roll	Date	Time	Placement/Location/Comments	Width (ft.)	Length (ft.)	QA ID
62	3103	3/18/2006	10:35	cell floor	22.5	232	RH
63	2797	3/18/2006	11:00	east slope	22.5	54	RH
64	2797	3/18/2006	11:09	east slope	22.5	295	RH
65	2797	3/18/2006	11:10	cell floor	22.5	37	RH
66	2558	3/18/2006	11:01	east slope	22.5	260	RH
67	2558	3/18/2006	13:00	SE cell fl	22.5	116	RH
68	3108	3/18/2006	13:07	SE cell fl	22.5	157	RH
69	2558	3/18/2006	13:15	east slope	22.5	28	RH
70	3108	3/18/2006	13:30	east slope	22.5	196	RH
71	3455	3/18/2006	13:37	east slope	22.5	175	RH
72	3455	3/18/2006	13:43	SE cell fl	22.5	28	RH
73	3455	3/18/2006	13:45	east slope	22.5	96	RH
74	3455	3/18/2006	14:00	east slope	22.5	71	RH
75	2557	3/18/2006	14:15	east slope	6	29	RH
76	2557	3/18/2006	14:20	east slope	14	29	RH
77	2557	3/18/2006	14:50	SE ICB	22.5	32	RH
78	2557	3/18/2006	15:00	SE ICB	22.5	29	RH
79	2557	3/18/2006	15:04	SE ICB	22.5	29	RH
80	2557	3/18/2006	15:10	SE ICB	22.5	29	RH
81	3108	3/18/2006	15:13	SE ICB	22.5	29	RH
82	2557	3/18/2006	15:14	SE ICB	22.5	28	RH
83	2557	3/18/2006	15:18	SE ICB	22.5	31	RH
84	2557	3/18/2006	15:20	SE ICB	22.5	31	RH
85	2702	3/18/2006	15:00	SE ICB	22.5	31	RH
86	2702	3/18/2006	15:06	SE ICB	22.5	31	RH
87	2702	3/18/2006	15:15	SE ICB	22.5	31	RH
88	2702	3/18/2006	15:30	SE ICB	22.5	29	RH
89	2702	3/18/2006	15:26	cap strip	13	27	RH
90	2557	3/18/2006	14:45	cap strip	6	29	RH
91	2557	3/20/2006	8:00	cap strip	3	30	RH
92	2557	3/20/2006	8:05	cap strip	3	30	RH



Panel Placement Log

Project: <u>J.E.D. Solid Waste Landfill</u>		TaskNo: <u>01</u>
Location: <u>1501 Omni Way St Cloud Florida</u>		
Description: <u>Cell 2 Construction</u>		

Primary / Secondary: Primary			Series: 2		Material Type: gml		
Panel	Batch-Roll	Date	Time	Placement/Location/Comments	Width (ft.)	Length (ft.)	QA ID
93	2793	3/21/2006	6:58	west berm cell fl	22.5	403	RH
94	2798	3/21/2006	7:00	west berm cell fl	22.5	405	RH
95	3113	3/21/2006	7:13	west berm cell fl	22.5	405	RH
96	3117	3/21/2006	7:30	west berm cell fl	22.5	385	RH
97	3102	3/21/2006	8:00	west berm cell fl	22.5	373	RH
98	3112	3/21/2006	8:10	west berm cell fl	22.5	337	RH
99	6687	3/21/2006	8:39	west berm	22.5	222	RH
100	3112	3/21/2006	8:40	west berm	22.5	65	270
101	6687	3/21/2006	8:45	west berm	22.5	182	RH
102	3454	3/21/2006	8:49	west berm	22.5	56	272
103	3454	3/21/2006	9:05	cell floor	22.5	214	RH
104	3454	3/21/2006	9:30	west berm	22.5	134	RH
105	3454	3/21/2006	9:14	cell floor	9	22	RH
106	2442	3/21/2006	9:49	west berm	18	97	RH
107	2442	3/21/2006	10:00	west berm	18	57	RH
108	2442	3/21/2006	10:02	west berm	22.5	39	RH
109	3220	3/22/2006	8:00	west berm	22.5	30	RH
110	3220	3/22/2006	8:02	east slope	12.5	40	RH
111	3220	3/22/2006	8:05	nG berm	22.5	40	RH
112	3220	3/22/2006	8:10	n berm	22.5	49	RH
113	3222	3/22/2006	8:12	n berm	22.5	72	RH
114	3220	3/22/2006	8:30	n berm	22.5	71	RH
115	2563	3/22/2006	8:33	n berm	22.5	71	RH
116	2563	3/22/2006	8:34	n berm	22.5	71	RH
117	2563	3/22/2006	8:37	n berm	22.5	71	RH
118	2563	3/22/2006	8:40	n berm	22.5	72	RH
119	2563	3/22/2006	8:42	n berm	22.5	72	RH
120	4459	3/22/2006	8:49	n berm	22.5	72	RH
121	4459	3/22/2006	8:51	n berm	22.5	72	RH
122	4459	3/22/2006	8:53	n berm	22.5	72	RH
123	4459	3/22/2006	8:55	n berm	22.5	72	RH



Panel Placement Log

Project: <u>J.E.D. Solid Waste Landfill</u>		Task No: <u>01</u>
Location: <u>1501 Omni Way St Cloud Florida</u>		
Description: <u>Cell 2 Construction</u>		

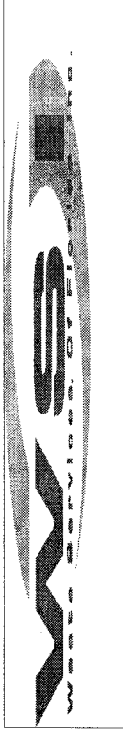
Primary / Secondary: Primary			Series: 2		Material Type: gml		
Panel	Batch-Roll	Date	Time	Placement/Location/Comments	Width (ft.)	Length (ft.)	QA ID
124	4459	3/22/2006	9:00	n berm	22.5	72	RH
125	2676	3/22/2006	9:03	n berm	22.5	72	RH
126	2676	3/22/2006	9:06	n berm	22.5	72	RH
127	2676	3/22/2006	9:10	n berm	22.5	72	RH
128	2676	3/22/2006	9:15	n berm	22.5	70	RH
129	2676	3/22/2006	9:30	n berm	15	70	RH
130	3219	3/22/2006	11:00	sump	22.5	34	RH
131	3219	3/22/2006	13:03	sump	22.5	45	RH
132	3219	3/22/2006	11:07	sump	22.5	56	RH
133	3219	3/22/2006	11:10	sump	15	56	RH
134	3219	3/22/2006	11:12	sump	13	25	RH
135	3219	3/22/2006	11:13	sump	12	25	RH
136	3219	3/22/2006	11:30	sump	22.5	26	RH
137	3219	3/22/2006	11:33	sump	12	28	DH
138	3219	3/22/2006	11:36	sump	15	28	RH
139	4457	3/22/2006	13:00	sump	22.5	45	RH
140	4457	3/22/2006	13:06	sump	22.5	36	DH
141	4457	3/22/2006	13:10	sump	22.5	28	RH
142	4457	3/22/2006	12:40	sump	11	25	RH
143	4457	3/22/2006	14:00	east slope	22.5	67	DH
144	4457	3/22/2006	15:00	sump base	15	28	RH
145	2447	3/27/2006	7:50	east slope	22.5	215	RH
146	2447	3/27/2006	7:40	east slope	22.5	168	RH
147	4460	3/27/2006	7:32	cell floor	22.5	38	RH
148	4460	3/27/2006	7:30	east slope	22.5	199	RH
149	4460	3/27/2006	8:35	east slope	22.5	160	RH
150	3456	3/27/2006	8:38	east slope	22.5	37	RH
151	3456	3/27/2006	8:33	east slope	22.5	182	RH
152	3456	3/27/2006	8:31	east slope	22.5	146	RH
153	4461	3/27/2006	8:30	cell floor	22.5	28	RH
154	4461	3/27/2006	8:30	east slope	22.5	165	RH



Panel Placement Log

Project: <u>J.E.D. Solid Waste Landfill</u>		TaskNo: <u>01</u>
Location: <u>1501 Omni Way St Cloud Florida</u>		
Description: <u>Cell 2 Construction</u>		

Primary / Secondary: Primary			Series: 2		Material Type: gml		
Panel	Batch-Roll	Date	Time	Placement/Location/Comments	Width (ft.)	Length (ft.)	QA ID
155	4461	3/27/2006	8:21	east slope	22.5	159	RH
156	4461	3/27/2006	8:18	cell floor	22.5	33	RH
157	2446	3/27/2006	8:13	east slope	22.5	118	RH
158	2446	3/27/2006	8:10	east slope	22.5	145	RH
159	4461	3/27/2006	8:05	east slope	22.5	114	RH
160	2701	3/27/2006	7:55	cell floor	22.5	22	RH
161	2701	3/27/2006	8:00	east slope	22.5	134	RH
162	2701	3/27/2006	12:30	east slope	22.5	122	RH
163	2701	3/27/2006	12:50	east slope	22.5	88	RH
164	2790	3/27/2006	12:40	east slope	22.5	26	RH
165	2790	3/27/2006	13:00	east slope	22.5	104	RH
166	2790	3/27/2006	13:10	east slope	22.5	95	RH
167	2790	3/27/2006	13:16	east slope	22.5	85	RH
168	2702	3/27/2006	12:57	east slope	20	76	RH
169	2702	3/27/2006	13:00	east slope	12	69	RH
Number of Panels:		169		Approx. Area (sq. ft).		556514	



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

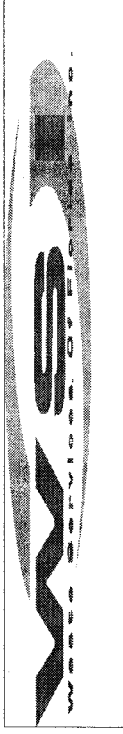
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30 5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
7/6/123	14:48	74300002	JP	E	2-030-EXT-242-265	23	RH	WTS	EXT SEAM	DL	P	VTOK	RH
1/7/2006	14:30	74300014	LS	E	2-036-EXT-377-399	22	RH	WTS	EXT SEAM	DL	P	VTOK	RH
2/28/2006	0:00	75200023	JP	f	2-001-002-0-19	19	RH	SW CORN	0944-0949 30-28	CC	p	ATOK	RH
2/28/2006	0:00	75200023	JP	f	2-001-004-21-51	30	RH	SW CORN	0945-0950 30-30	CC	p	ATOK	RH
2/28/2006	0:00	75200023	JP	f	2-002-003-0-21	21	RH	SW CORN	0944-0949 30-28	CC	p	ATOK	RH
2/28/2006	0:00	75200023	JP	f	2-003-004-0-13	13	RH	SW CORN	0943-0948 30-30	CC	p	ATOK	RH
2/28/2006	0:00	7537	OF	f	2-004-005-0-35	35	RH	S ICB	0952-0957 30-29	CC	p	ATOK	RH
2/28/2006	0:00	7537	OF	f	2-005-006-0-35	35	RH	S ICB	0953-0958 30-30	CC	p	ATOK	RH
2/28/2006	0:00	75200023	JP	f	2-005-021-44-65	21	RH	S ICB	1532-1537 30-28	CC	p	ATOK	RH
2/28/2006	0:00	7537	OF	f	2-006-007-0-35	35	RH	S ICB	0955-1000 30-30	CC	p	ATOK	RH
2/28/2006	0:00	75200023	JP	f	2-006-021-65-88	23	RH	S ICB	1144-1149 30-30	CC	p	ATOK	RH
2/28/2006	0:00	75200022	BR	f	2-007-008-0-35	35	RH	S ICB	1013-1018 30-30	CC	p	ATOK	RH
2/28/2006	0:00	75200022	BR	f	2-008-009-0-35	35	RH	S ICB	1014-1019 30-30	CC	p	ATOK	RH
2/28/2006	0:00	75200022	BR	f	2-009-010-0-35	35	RH	S ICB	1015-1020 30-30	CC	p	ATOK	RH
2/28/2006	0:00	75200022	BR	f	2-010-011-0-34	34	RH	S ICB	1017-1022 30-30	CC	p	ATOK	RH
2/28/2006	0:00	75200022	BR	f	2-011-012-0-34	34	RH	S ICB	1025-1030 30-30	CC	p	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: FQ0852

TaskNo: 01

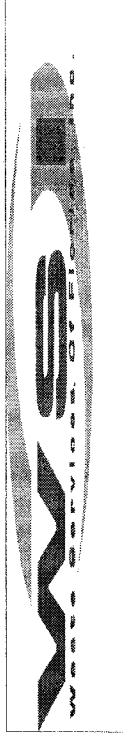
Material Type gml : 1 Specifications: Seam Pressure: 25-30 5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary

Series: 2

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
2/28/2006	0:00	75200022	BR	f	2-012-013-0-34	34	RH	S ICB	1033-1038 30-30	CC	p	ATOK	RH
2/28/2006	0:00	7537	OF	f	2-013-014-0-34	34	RH	S ICB	1040-1045 30-29	CC	p	ATOK	RH
2/28/2006	0:00	7537	OF	f	2-014-015-0-34	34	RH	S ICB	1047-1052 30-30	CC	p	ATOK	RH
2/28/2006	0:00	7537	OF	f	2-015-016-0-34	34	RH	S ICB	1052-1057 30-30	CC	p	ATOK	RH
2/28/2006	0:00	7537	OF	f	2-016-017-0-34	34	RH	S ICB	1101-1106 30-30	CC	p	ATOK	RH
2/28/2006	0:00	75200023	JP	f	2-017-018-0-32	32	RH	S ICB	1104-1109 30-30	CC	p	ATOK	RH
2/28/2006	0:00	75200023	JP	f	2-018-019-0-32	32	RH	S ICB	1111-1116 30-30	CC	p	ATOK	RH
2/28/2006	0:00	75200023	JP	f	2-021-001-0-44	32	RH	S ICB	13-13-1318 30-30	CC	p	ATOK	RH
2/28/2006	10:47	75200022	BR	f	2-021-022-0-407	406	RH	W B S FL	1513-1518 30-30	CC	p	ATOK	RH
2/28/2006	10:55	7537	OF	f	2-022-023-0-406	408	RH	W B S FL	1517-1522 30-30	CC	p	ATOK	RH
2/28/2006	13:34	75200023	JP	f	2-019-020-0-31	32	RH	S ICB	1120-1125 30-30	CC	p	ATOK	RH
2/28/2006	13:35	7537	OF	f	2-023-024-0-407	407	RH	W B S FL	1604-1609 30-29	CC	p	ATOK	RH
2/28/2006	13:35	75200023	JP	f	2-024-025-0-407	407	RH	W B S FL	1611-1616 30-30	CC	p	ATOK	RH
2/28/2006	13:43	75200022	BR	f	2-025-026-0-407	407	RH	W B S FL	1615-1620 30-30	CC	p	ATOK	RH
2/28/2006	14:50	7537	OF	f	2-026-027-0-406	407	RH	W B S FL	1623-1628 30-30	CC	p	ATOK	RH
2/28/2006	14:55	75200022	BR	f	2-027-028-0-407	407	RH	W B S FL	1624-1629 30-30	CC	p	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EO0852

TaskNo: 01

Vacuum Box: 5 lbs. 20 secs.

Seam Pressure: 25-30.5 min

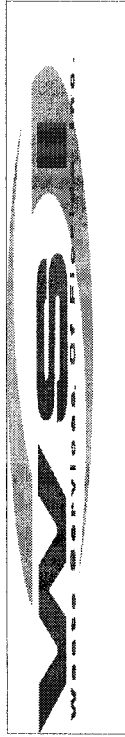
Specifications:

gml : 1

Series: 2

Primary / Secondary: Primary

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
2/28/2006	0:00	74300002	JP	e	2-002-EXT-0-16	16	RH	WTS	VT 3/1/06	DL	p	VTOK	RH
3/1/2006	0:00	74300002	OF	E	2-001-EXT-16-38	22	RH	WTS	VT 3/1/06	DL	p	VTOK	RH
3/1/2006	7:25	74300002	OF	e	2-028-EXT-199-212	23	RH	WTS	VT 3/1/06	DL	p	VTOK	RH
3/1/2006	7:35	74300002	OF	e	2-027-EXT-176-199	23	RH	WTS	VT 3/1/06	DL	p	VTOK	RH
3/1/2006	7:54	74300002	OF	e	2-026-EXT-152-176	24	RH	WTS	VT 3/1/06	DL	p	VTOK	RH
3/1/2006	8:11	74300002	OF	e	2-025-EXT-129-152	23	RH	WTS	VT 3/1/06	DL	p	VTOK	RH
3/1/2006	8:22	74300002	OF	e	2-024-EXT-106-129	23	RH	WTS	VT 3/1/06	DL	p	VTOK	RH
3/1/2006	8:30	74300002	OF	e	2-023-EXT-83-106	23	RH	WTS	VT 3/1/06	DL	p	VTOK	RH
3/1/2006	8:45	74300002	OF	e	2-022-EXT-60-83	23	RH	WTS	VT 3/1/06	DL	p	VTOK	RH
3/1/2006	8:55	74300002	OF	e	2-021-EXT-38-60	22	RH	WTS	VT 3/1/06	DL	p	VTOK	RH
3/7/2006	8:35	75200023	JP	F	2-028-029-0-408	408	RH	W BERM N SL	1016-1021 30-30	CC	P	ATOK	RH
3/7/2006	8:35	7537	OF	F	2-029-030-0-407	407	RH	C FL	1000-1005 30-30	CC	P	ATOK	RH
3/7/2006	8:35	75200022	BR	F	2-030-031-0-408	408	RH	W BERM N SL	1017-1022 30-30	CC	P	ATOK	RH
3/7/2006	8:35	74300016	DL	F	2-031-032-0-408	408	RH	WTS	1018-1023 30-30	CC	P	ATOK	RH
3/7/2006	9:32	75200023	JP	F	2-032-033-0-408	408	RH	WTS	1105-1110 30-30	CC	P	ATOK	RH
3/7/2006	9:45	75200022	BR	F	2-033-034-0-408	408	RH	WTS	1105-1110 30-30	CC	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

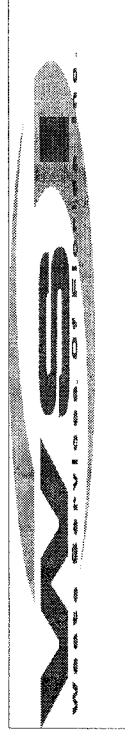
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30 5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/7/2006	10:13	75200016	DL	F	2-035-036-0-407	407	RH	WTS	1202-1207 30-30	CC	P	ATOK	RH
3/7/2006	10:56	75200023	JP	F	2-036-037-0-407	407	RH	W BERM	1207-1212 30-30	CC	P	ATOK	RH
3/7/2006	11:16	74500022	BR	F	2-037-038-0-38	38	RH	WTS	EXT SEAM	DL	P	VTOK	RH
3/7/2006	11:25	7537	OF	F	2-038-039-0-407	407	RH	W BERM	1347-1352 30-30	CC	P	ATOK	RH
3/7/2006	12:15	75200022	BR	F	2-039-040-0288-407	119	RH	C FL	1410-1415 30-30	CC	P	ATOK	DH
3/7/2006	14:25	74300002	JP	E	2-029-EXT-220-242	22	RH	W S L C FL	EXT SEAM	DL	P	VTOK	RH
3/7/2006	14:40	74300014	LS	E	2-038-EXT-422-444	22	RH	WTS	EXT SEAM	DL	P	VTOK	RH
3/7/2006	15:00	74300002	JP	E	2-031-EXT-265-287	22	RH	WTS	EXT SEAM	DL	P	VTOK	RH
3/7/2006	15:11	74300002	JP	E	2-032-EXT-287-309	22	RH	WTS	EXT SEAM	DL	P	VTOK	RH
3/7/2006	15:16	74300002	JP	E	2-033-ext-309-332	23	RH	WTS	EXT SEAM	DL	P	VTOK	RH
3/7/2006	15:30	74300002	JP	E	2-034-EXT-332-355	23	RH	WTS	EXT SEAM	DL	P	VTOK	RH
3/7/2006	15:35	74300002	JP	E	2-035-EXT-355-377	22	RH	WTS	EXT SEAM	DL	P	VTOK	RH
3/7/2006	15:49	74300002	JP	E	2-037-EXT-399-422	23	RH	WTS	EXT SEAM	DL	P	VTOK	RH
3/7/2006	15:56	74300014	LS	E	2-039-EXT-444-467	23	RH	WTS	EXT SEAM	DL	P	VTOK	RH
3/15/2006	8:40	75200023	JP	F	2-040-041-0-407	407	RH	W berm	0948-0953 30-30	CC	P	ATOK	RH
3/15/2006	8:46	7537	OF	F	2-041-042-0-407	407	RH	W berm	1010-1015 30-30	CC	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
Location: 1501 Omni Way St Cloud Florida
Description: Cell 2 Construction

ProjNo: FQ0852

TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/15/2006	8:56	75200022	BR	F	2-042-043-0-406	406	RH	W berm	1010-1015 30-30	CC	P	ATOK	DH
3/15/2006	9:06	7539	DL	F	2-043-044-0-406	406	RH	W berm	1116-1121 30-30	CC	P	ATOK	DH
3/15/2006	9:48	75200023	JP	F	2-044-045-0-406	406	RH	W berm	1117-1122 30-30	CC	P	ATOK	DH
3/15/2006	10:05	7537	OF	F	2-045-046-0-407	407	RH	W berm	1312-1317 30-30	CC	P	ATOK	RH
3/15/2006	10:05	75200022	BR	F	2-046-047-0-407	407	RH	W berm	1258-1303 30-30	CC	P	ATOK	RH
3/15/2006	10:18	7539	DL	F	2-047-048-0-406	406	RH	W berm	1252-1257 30-30	CC	P	ATOK	RH
3/15/2006	13:16	75200022	BR	F	2-049-050 0-406	406	DH	W berm	1421-1426 30-30	CC	P	ATOK	DH
3/15/2006	13:17	7539	DL	F	2-048--049 0-406	406	DH	W berm	1420-1425 30-30	CC	P	ATOK	DH
3/15/2006	13:34	74300002	JP	E	2-041-ext 494-516	24	DH	WEST TIE IN	EXT SEAM	DL	P	VTOK	RH
3/15/2006	13:42	74300002	JP	E	2-042-ext 516-538	22	DH	WEST TIE IN	EXT SEAM	DL	P	VTOK	RH
3/15/2006	13:48	74300002	JP	E	2-043-ext 538-561	23	DH	WEST TIE IN	EXT SEAM	DL	P	VTOK	RH
3/15/2006	13:54	74300002	JP	E	2-044-ext 561-584	23	DH	WEST TIE IN	EXT SEAM	DL	P	VTOK	RH
3/15/2006	14:00	74300002	JP	E	2-045-ext 584-606	22	DH	WEST TIE IN	EXT SEAM	DL	P	VTOK	RH
3/15/2006	14:14	74300002	JP	E	2-046-ext 606-629	23	DH	WEST TIE IN	EXT SEAM	DL	P	VTOK	RH
3/15/2006	14:38	74300002	JP	E	2-047-ext 629-652	23	DH	WEST TIE IN	EXT SEAM	DL	P	VTOK	RH
3/16/2006	8:40	74300002	JP	E	2-049-ext 675-698	23	DH	WEST TIE IN	EXT SEAM	DL	P	VTOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

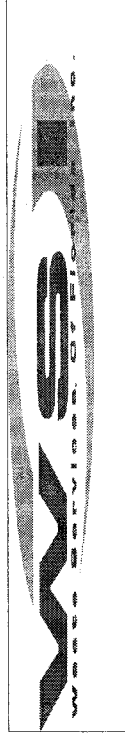
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/16/2006	8:44	74300002	JP	E	2-050-ext 698-721	23	DH	WEST TIE IN	EXT SEAM	DL	P	VTOK	RH
3/18/2006	9:40	75200023	JP	F	2-053-052-0-23	23	RH	C FLOOR	1602-1607 30-30	CC	P	ATOK	RH
3/18/2006	10:00	7537	OF	F	2-052-054-233-141	92	RH	Tie in	705-710 30-30	LS	P	ATOK	RH
3/18/2006	10:02	75200023	JP	F	2-051-052-144-276	132	RH	C FLOOR	652-657 30-30	LS	P	ATOK	RH
3/18/2006	10:11	75200022	BR	F	2-054-055-241-0	241	RH	E berm	710-715 30-30	CC	P	ATOK	RH
3/18/2006	10:15	75200023	JP	F	2-051-053-144-0	144	RH	E berm	401-406 30-30	CC	P	ATOK	RH
3/18/2006	10:15	7537	OF	F	2-053-054-141-0	141	RH	E berm	1604-1609 30-30	CC	P	ATOK	RH
3/18/2006	10:26	7539	DL	F	2-056-057-0-23	23	RH	C FLOOR	1609-1614 30-30	CC	P	ATOK	RH
3/18/2006	10:35	7539	DL	F	2-055-056-250-109	141	RH	E berm	718-723 30-30	CC	P	ATOK	RH
3/18/2006	10:45	7537	OF	F	2-056-058-257-107	150	RH	C FLOOR	720-725 30-30	CC	P	ATOK	RH
3/18/2006	10:46	75200023	JP	F	2-058-059-262-0	262	RH	E berm	754-759 30-30	CC	P	ATOK	RH
3/18/2006	11:00	75200022	BR	F	2-060-061-0-23	23	RH	C FLOOR	803-808 30-30	CC	P	ATOK	RH
3/18/2006	11:02	7539	DL	F	2-055-057-109-0	109	RH	E berm	1607-1612 30-30	CC	P	ATOK	RH
3/18/2006	11:09	7537	OF	F	2-057-058-0-107	107	RH	E berm	1608-1613 30-30	CC	P	ATOK	RH
3/18/2006	11:10	75200022	BR	F	2-059-060-270-153	117	RH	C FLOOR	803-808 30-30	CC	P	ATOK	RH
3/18/2006	11:24	75200022	BR	F	2-059-061-153-0	153	RH	E berm	803-808 30-30	CC	P	ATOK	RH



Production Seam Log

Project: I.E.D. Solid Waste Landfill
 Location: 1501 Omni Way, St Cloud, Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

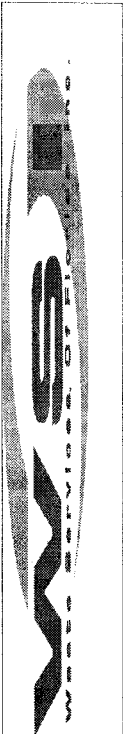
TaskNo: 01

Material Type: gml : 1 Specifications: Seam Pressure: 25-30.5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/18/2006	11:24	7539	DL	F	2-063-062-0-23	23	RH	E berm	820-825 30-30	LS	P	ATOK	RH
3/18/2006	11:33	7539	DL	F	2-062-064-150-52	98	RH	C FLOOR	821-826 30-30	CC	P	ATOK	RH
3/18/2006	11:33	7539	DL	F	2-062-064-286-150	136	RH	C FLOOR	837-842 30-30	LS	P	ATOK	RH
3/18/2006	11:38	7537	OF	F	2-060-062-280-150	130	RH	C FLOOR	805-810 30-30	LS	P	ATOK	RH
3/18/2006	11:40	75200023	JP	F	2-065-066-0-23	23	RH	C FLOOR	1001-1006 30-30	CC	P	ATOK	RH
3/18/2006	11:47	75200023	JP	F	2-064-065-258-295	37	RH	C FLOOR	835-840 30-30	CC	P	ATOK	RH
3/18/2006	13:35	7537	OF	F	2-061-062-151-54	97	RH	E berm	805-810 30-30	LS	P	ATOK	RH
3/18/2006	13:38	75200023	JP	F	2-064-066-258-0	258	RH	E berm	835-840 30-30	CC	P	ATOK	RH
3/18/2006	13:48	7537	OF	F	2-061-063-54-0	54	RH	E berm	820-825 30-30	LS	P	ATOK	RH
3/18/2006	13:50	7539	DL	F	2-063-064-52-0	52	RH	E berm	821-826 30-30	LS	P	ATOK	RH
3/18/2006	13:53	75200022	BR	F	2-067-068-0-23	23	RH	C FLOOR	1030-1035 30-30	LS	P	ATOK	RH
3/18/2006	14:07	75200022	BR	F	2-069-070-0-23	23	RH	C FLOOR	1051-1056 30-30	LS	P	ATOK	RH
3/18/2006	14:10	7537	OF	F	2-065-067-295-255	60	RH	C FLOOR	955-1000 30-30	CC	P	ATOK	RH
3/18/2006	14:16	7539	DL	F	2-067-069-247-197	50	RH	C FLOOR	1015-1020 30-30	LS	P	ATOK	RH
3/18/2006	14:17	75200022	BR	F	2-069-071-200-195	5	RH	C FLOOR	1056-1101 30-30	CC	P	ATOK	RH
3/18/2006	14:18	7537	OF	F	2-066-067-255-159	96	RH	C FLOOR	1030-1035 30-30	CC	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St. Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

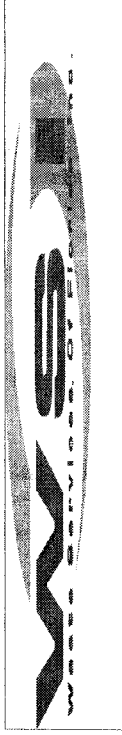
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/18/2006	14:18	75200022	BR	F	2-070-071-195-0	195	RH	E berm	1105-1110 30-30	LS	P	ATOK	RH
3/18/2006	14:29	7539	DL	F	2-068-070-155-0	155	RH	E berm	1035-1040 30-30	LS	P	ATOK	RH
3/18/2006	14:30	7537	OF	F	2-066-068-159-0	159	RH	E berm	1042-1047 30-30	CC	P	ATOK	RH
3/18/2006	14:30	75200023	JP	F	2-072-073-0-23	23	RH	C FLOOR	1243-1248 30-30	LS	P	ATOK	RH
3/18/2006	14:37	75200023	JP	F	2-071-072-149-98	51	RH	C FLOOR	1243-1248 30-30	LS	P	ATOK	RH
3/18/2006	14:45	75200023	JP	F	2-071-073-98-0	98	RH	E berm	1243-1248 30-30	LS	P	ATOK	RH
3/18/2006	14:55	75200022	BR	F	2-073-074-0-93	93	RH	E berm	1245-1250 30-30	LS	P	ATOK	RH
3/18/2006	15:02	7539	DL	F	2-074-075-48-0	48	RH	E berm	1314-1319 30-30	LS	P	ATOK	RH
3/18/2006	15:07	75200023	JP	F	2-080-081-29-0	29	RH	S ICB	1016-1021 30-30	LS	P	ATOK	RH
3/18/2006	15:10	7537	OF	F	2-077-020-32-0	32	RH	S ICB	0900-0905 30-30	CC	P	ATOK	RH
3/18/2006	15:17	7537	OF	F	2-077-078-29-0	29	RH	S ICB	1012-1017 30-30	LS	P	ATOK	RH
3/18/2006	15:18	75200022	BR	F	2-084-085-31-0	31	RH	S ICB	1115-1120 30-30	LS	P	ATOK	RH
3/18/2006	15:20	75200023	JP	F	2-081-082-28-0	28	RH	S ICB	1050-1055 30-30	LS	P	ATOK	RH
3/18/2006	15:23	75200023	JP	F	2-082-083-0-31	31	RH	S ICB	1058-1103 30-30	LS	P	ATOK	RH
3/18/2006	15:26	75200022	BR	F	2-087-074-632-654	22	RH	Tie in	1259-1304 30-30	LS	P	ATOK	RH
3/18/2006	15:27	7537	OF	F	2-078-079-29-0	29	RH	S ICB	1013-1018 30-30	LS	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: FQ0852

TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30 5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/18/2006	15:30	75200022	BR	F	2-085-086-30-0	30	RH	S ICB	1116-1121 30-30	LS	P	ATOK	RH
3/18/2006	15:30	75200022	BR	F	2-087-088-0-30	30	RH	S ICB	1258-1303 30-30	LS	P	ATOK	RH
3/18/2006	15:35	7539	DL	F	2-075-090-34-0	34	RH	E berm	1324-1329 30-30	LS	P	ATOK	RH
3/18/2006	15:38	7537	OF	F	2-079-080-29-0	29	RH	S ICB	1015-1020 30-30	LS	P	ATOK	RH
3/18/2006	15:38	75200022	BR	F	2-086-087-30-0	30	RH	S ICB	1244-1249 30-30	LS	P	ATOK	RH
3/18/2006	15:40	75200023	JP	F	2-083-084-0-31	31	RH	S ICB	1100-1105 30-30	LS	P	ATOK	RH
3/18/2006	15:40	75200022	BR	F	2-088-074-654-676	22	RH	Tie in	1300-1305 30-30	LS	P	ATOK	RH
3/18/2006	15:45	7539	DL	F	2-076-077-32-0	32	RH	E berm	1324-1329 30-30	LS	P	ATOK	RH
3/18/2006	15:52	7537	OF	F	2-032-051-280-302	22	RH	Tie in	652-657 30-30	LS	P	ATOK	RH
3/18/2006	15:52	75200022	BR	F	2-088-089-0-27	27	RH	S ICB	1315-1320 30-30	LS	P	ATOK	RH
3/18/2006	15:53	75200023	JP	F	2-077-067-421-429	8	RH	Tie in	955-1000 30-30	LS	P	ATOK	RH
3/18/2006	15:55	7537	OF	F	2-031-051-277-280	3	RH	Tie in	patched	MP	P	VTOK	RH
3/18/2006	15:55	7537	OF	F	2-031-052-258-277	19	RH	Tie in	654-659 30-30	LS	P	ATOK	RH
3/18/2006	15:58	7537	OF	F	2-030-054-235-252	17	RH	Tie in	705-710 30-30	LS	P	ATOK	RH
3/18/2006	15:58	7537	OF	F	2-03-053-252-258	6	RH	Tie in	705-710 30-30	LS	P	ATOK	RH
3/18/2006	16:00	7537	OF	F	2-029-054-227-235	8	RH	Tie in	706-711 30-30	LS	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

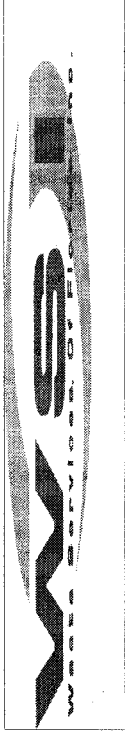
ProjNo: EQ0852

TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam/No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/18/2006	16:00	75200023	JP	F	2-078-067-429-451	22	RH	Tie in	1013-1018 30-30	LS	P	ATOK	RH
3/18/2006	16:01	7537	OF	F	2-029-055-212-227	15	RH	Tie in	710-715 30-30	LS	P	ATOK	RH
3/18/2006	16:02	75200023	JP	F	2-079-067-451-473	22	RH	Tie in	1013-1018 30-30	LS	P	ATOK	RH
3/18/2006	16:03	75200023	OF	F	2-028-055-202-212	10	RH	Tie in	715-720 30-30	LS	P	ATOK	RH
3/18/2006	16:04	7537	OF	F	2-028-056-190-202	12	RH	Tie in	745-750 30-30	LS	P	ATOK	RH
3/18/2006	16:04	75200023	JP	F	2-080-069-473-496	23	RH	Tie in	1015-1020 30-30	LS	P	ATOK	RH
3/18/2006	16:07	75200023	JP	F	2-081-069-496-518	22	RH	Tie in	1050-1055 30-30	LS	P	ATOK	RH
3/18/2006	16:07	75200022	BR	F	2-089-075-676-700	24	RH	Tie in	1315-1320 30-30	LS	P	ATOK	RH
3/18/2006	16:08	7537	OF	F	2-027-056-177-190	13	RH	Tie in	745-750 30-30	LS	P	ATOK	RH
3/18/2006	16:09	7537	OF	F	2-027-058-166-177	11	RH	Tie in	747-752 30-30	LS	P	ATOK	RH
3/18/2006	16:09	75200022	BR	F	2-090-089-700-702	2	RH	Tie in	patched	MP	P	VTOK	RH
3/18/2006	16:10	75200022	BR	F	2-076-089-702-712	10	RH	Tie in	1318-1323 30-30	LS	P	ATOK	RH
3/18/2006	16:12	75200023	JP	F	2-082-069-518-523	5	RH	Tie in	patched	MP	P	VTOK	DH
3/18/2006	16:13	7537	OF	F	2-026-058-152-166	14	RH	Tie in	747-75 30-30	LS	P	ATOK	RH
3/18/2006	16:13	75200023	JP	F	2-082-070-523-524	1	RH	Tie in	patched	MP	P	VTOK	DH
3/18/2006	16:13	75200023	JP	F	2-082-071-524-541	17	RH	Tie in	1058-1103 30-30	LS	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: F00852

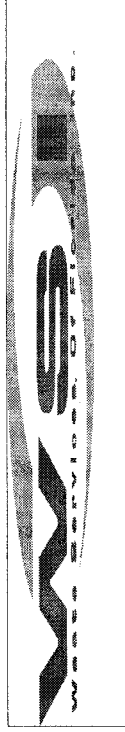
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30 5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam					Location			Nondesctructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/18/2006	16:14	7537	OF	F	2-026-059-144-152	8	RH	Tie in	755-0800 30-30	LS	P	ATOK	RH
3/18/2006	16:15	7537	OF	F	2-025-059-127-144	17	RH	Tie in	755-800 30-30	LS	P	ATOK	RH
3/18/2006	16:15	75200023	JP	F	2-083-071-541-563	22	RH	Tie in	1058-1103 30-30	LS	P	ATOK	RH
3/18/2006	16:18	75200023	JP	F	2-084-071-563-575	12	RH	Tie in	1103-1108 30-30	LS	P	ATOK	RH
3/18/2006	16:19	7537	OF	F	2-024-060-102-123	21	RH	Tie in	759-804 30-30	LS	P	ATOK	RH
3/18/2006	16:19	7537	OF	F	2-025-060-122-127	5	RH	Tie in	patched	MP	P	VTOK	RH
3/18/2006	16:20	75200023	JP	F	2-084-072-575-586	11	RH	Tie in	1103-1108 30-30	LS	P	ATOK	RH
3/18/2006	16:22	75200023	JP	F	2-072-085-586-608	22	RH	Tie in	1116-1121 -30-30	LS	P	ATOK	RH
3/18/2006	16:23	7539	DL	F	2-067-070-197-155	42	RH	C FLOOR	1035-1040 30-30	LS	P	ATOK	RH
3/18/2006	16:24	7537	OF	F	2-023-062-76-99	23	RH	Tie in	830-835 30-30	LS	P	ATOK	RH
3/18/2006	16:24	7537	OF	F	2-024-062-99-102	3	RH	Tie in	patched	MP	P	VTOK	RH
3/18/2006	16:25	75200023	JP	F	2-072-086-608-628	20	RH	Tie in	1116-1121 30-30	LS	P	ATOK	RH
3/18/2006	16:28	75200023	JP	F	2-074-086-628-632	4	RH	Tie in	patched	MP	P	VTOK	DH
3/18/2006	16:29	7537	OF	F	2-022-064-51-76	25	RH	Tie in	832-837 30-30	LS	P	ATOK	RH
3/18/2006	16:34	7537	OF	F	2-021-065-32-51	19	RH	Tie in	833-828 30-30	LS	P	ATOK	RH
3/20/2006	8:02	7539	DL	f	2-007-021-88-111	23	RH	S ICB	850-855 30-30	CC	p	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: F00852

TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30 5 min Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/20/2006	8:06	7539	DL	f	2-008-021-111-134	23	RH	S ICB	852-857 30-30	CC	p	ATOK	RH
3/20/2006	8:13	7539	DL	f	2-009-021-134-156	22	RH	S ICB	852-857 30-30	CC	p	ATOK	RH
3/20/2006	8:15	7539	DL	f	2-010-021-156-179	23	RH	S ICB	857-902 30-30	CC	p	ATOK	RH
3/20/2006	8:25	7539	DL	F	2-092-006-0-30	30	RH	S ICB	845-850 30-30	CC	P	ATOK	RH
3/20/2006	8:35	7539	DL	F	2-092-007-0-30	30	RH	S ICB	845-850 30-30	CC	P	ATOK	RH
3/20/2006	8:47	7539	DL	f	2-011-021-179-202	23	RH	S ICB	858-903 30-30	CC	p	ATOK	RH
3/20/2006	8:55	7539	DL	f	2-013-021-224-247	23	RH	S ICB	905-910 30-30	CC	p	ATOK	RH
3/20/2006	9:02	7539	DL	f	2-014-021-247-269	22	RH	S ICB	910-915 30-30	CC	p	ATOK	RH
3/20/2006	9:05	7539	DL	f	2-015-021-269-292	23	RH	S ICB	914-919 30-30	CC	p	ATOK	RH
3/20/2006	9:09	7539	DL	f	2-016-021-292-315	23	RH	S ICB	916-921 30-30	CC	p	ATOK	RH
3/20/2006	9:16	75200023	JP	f	2-017-021-315-338	23	RH	S ICB	928-935 30-30	CC	p	ATOK	RH
3/20/2006	9:19	7539	DL	f	2-018-021-338-361	23	RH	S ICB	929-934 30-30	CC	p	ATOK	RH
3/20/2006	9:22	7539	DL	f	2-019-021-361-383	22	RH	S ICB	932-937 30-30	CC	p	ATOK	RH
3/20/2006	9:25	7539	DL	f	2-020-021-383-406	23	RH	S ICB	936-941 30-30	CC	p	ATOK	RH
3/20/2006	9:40	7539	DL	F	2-020-091-30-0	30	RH	S ICB	958-1003 30-30	LS	P	ATOK	RH
3/20/2006	9:50	7539	DL	F	2-077-91-0-30	30	RH	S ICB	1001-1006 30-30	LS	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

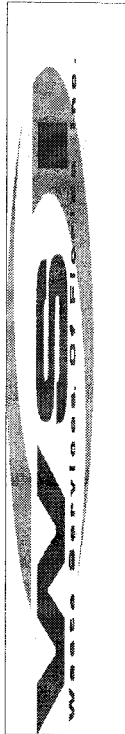
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30 5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/20/2006	8:51	7539	DL	F	2-012-021-202-224	22	RH	S ICB	900-905 30-30	CC	P	ATOK	RH
3/20/2006	17:10	7402	IA	E	2-077-065-406-421	15	RH	Tie in	capped	MP	P	ATOK	RH
3/21/2006	7:21	75200023	JP	F	2-093-094-0-406	406	RH	W berm	905-910 30-30	CC	P	ATOK	RH
3/21/2006	7:45	7537	OF	F	2-050-093-0-403	403	RH	W berm	904-909 30-30	CC	P	ATOK	RH
3/21/2006	7:50	7539	DL	F	2-094-095-0-410	410	RH	W berm	919-924 30-30	CC	P	ATOK	RH
3/21/2006	7:57	75200022	BR	F	2-095-096-0-400	400	RH	W berm	919-924 30-30	CC	P	ATOK	RH
3/21/2006	8:50	75200023	JP	F	2-096-097-0-385	385	RH	W berm	954-959 30-30	CC	P	ATOK	RH
3/21/2006	9:02	7537	OF	F	2-097-098-0-362	362	RH	W berm	1013-1018 30-30	CC	P	ATOK	RH
3/21/2006	9:05	75200022	BR	F	2-099-100-0-23	23	RH	C FLOOR	1223-1228 30-30	CC	P	ATOK	RH
3/21/2006	9:28	75200022	BR	F	2-101-102-0-23	23	RH	C FLOOR	1050-1055 30-30	CC	P	ATOK	RH
3/21/2006	9:38	75200022	BR	F	2-099-101-0-182	182	RH	W berm	1020-1025 30-30	CC	P	ATOK	RH
3/21/2006	9:44	7539	DL	F	2-098-099-0-222	222	RH	W berm	956-1001 30-30	CC	P	ATOK	RH
3/21/2006	9:47	7539	DL	F	2-098-100-222-312	90	RH	C FLOOR	1225-1230 30-30	CC	P	ATOK	RH
3/21/2006	10:06	75200023	JP	F	2-101-103-0-183	183	RH	W berm	1030-1035 30-30	CC	P	ATOK	RH
3/21/2006	10:06	7537	OF	F	2-103-104-0-148	148	RH	W berm	1233-1238 30-30	CC	P	ATOK	RH
3/21/2006	10:07	75200022	BR	F	2-099-102-182-223	41	RH	C FLOOR	1050-1055 30-30	CC	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: E00852

TaskNo: 01

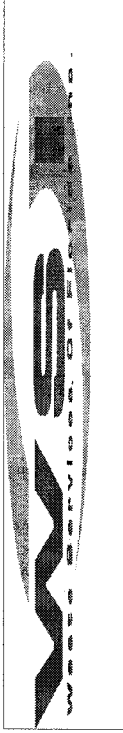
Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/21/2006	10:08	7539	DL	F	2-104-106-0-120	120	RH	W berm	1238-1243 30-30	CC	P	ATOK	RH
3/21/2006	10:11	75200022	BR	F	2-100-102-223-262	39	RH	C FLOOR	1223-1228 30-30	CC	P	ATOK	RH
3/21/2006	10:25	7402	AN	E	2-093-ext-720-743	23	RH	Tie in	ext seam	DL	P	VTOK	RH
3/21/2006	10:30	75200023	JP	F	2-102-103-183-214	31	RH	C FLOOR	1057-1102 30-30	CC	P	ATOK	RH
3/21/2006	10:31	7539	DL	F	2-104-105-0-23	10	RH	C FLOOR	1235-1240 30-30	CC	P	ATOK	RH
3/21/2006	10:32	7537	OF	F	2-103-105-148-170	22	RH	C FLOOR	1233-1238 30-30	CC	P	ATOK	RH
3/21/2006	10:37	7402	AN	E	2-094-ext-743-766	23	RH	Tie in	ext seam	DL	P	VTOK	RH
3/21/2006	10:37	7539	DL	F	2-106-107-0-73	73	RH	W berm	1243-1248 30-30	CC	P	ATOK	RH
3/21/2006	10:47	7402	AN	E	2-095-ext-766-789	23	RH	Tie in	ext seam	DL	P	VTOK	RH
3/21/2006	10:48	7537	OF	F	2-107-108-0-42	42	RH	W berm	1258-1303 30-30	CC	P	ATOK	RH
3/21/2006	12:22	7402	AN	E	2-096-ext-789-811	22	RH	Tie in	ext seam	DL	P	VTOK	RH
3/21/2006	12:34	7402	AN	E	2-097-ext-811-833	22	RH	Tie in	ext seam	DL	P	VTOK	RH
3/21/2006	12:47	74300002	JP	E	2-103-ext-902-924	22	RH	Tie in	ext seam	DL	P	VTOK	RH
3/21/2006	12:52	7402	AN	E	2-098-ext-833-857	24	RH	Tie in	ext seam	DL	P	VTOK	RH
3/21/2006	12:58	74300002	JP	E	2-104-ext-924-947	23	RH	Tie in	ext seam	DL	P	VTOK	RH
3/21/2006	13:06	7402	AN	E	2-099-ext-857-879	22	RH	Tie in	ext seam	DL	P	VTOK	RH

Wednesday, April 12, 2006



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

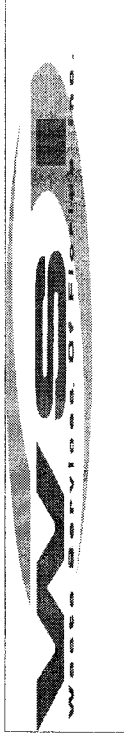
ProjNo: EQ0852

TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/21/2006	13:08	74300002	JP	E	2-106-ext-947-970	23	RH	Tie in	ext seam	DL	P	VTOK	RH
3/21/2006	13:20	7402	AN	E	2-101-ext-879-902	23	RH	Tie in	ext seam	DL	P	VTOK	RH
3/21/2006	13:20	74300002	JP	E	2-107-ext-970-988	18	RH	Tie in	ext seam	DL	P	VTOK	RH
3/21/2006	13:28	74300002	JP	E	2-108-ext-988-1010	22	RH	Tie in	ext seam	DL	P	VTOK	RH
3/22/2006	9:08	75200023	DL	F	2-112-113-0-57	57	RH	N Berm	1047-1052 30-30	CC	P	ATOK	RH
3/22/2006	9:25	75200023	JP	F	2-108-109-0-35	35	RH	W berm	1109-1114 30-30	CC	P	ATOK	RH
3/22/2006	9:25	7539	DL	F	2-115-116-0-71	71	RH	N Berm	1051-1056 30-30	CC	P	ATOK	RH
3/22/2006	9:28	75200023	JP	F	2-111-112-0-41	41	RH	N Berm	1034-1039 30-30	CC	P	ATOK	RH
3/22/2006	9:37	7537	OF	F	2-114-115-0-70	70	RH	N Berm	1049-1054 30-30	CC	P	ATOK	RH
3/22/2006	9:40	75200023	JP	F	2-110-111-0-40	40	RH	N Berm	1031-1036 30-30	CC	P	ATOK	RH
3/22/2006	9:41	75200022	BR	F	2-118-119-0-72	72	RH	N Berm	1053-1058 30-30	CC	P	ATOK	RH
3/22/2006	9:46	7539	DL	F	2-116-117-0-71	71	RH	N Berm	1051-1056 30-30	CC	P	ATOK	RH
3/22/2006	9:56	7537	OF	F	2-120-121-0-72	72	RH	N Berm	1101-1108 30-30	CC	P	ATOK	RH
3/22/2006	9:57	75200023	JP	F	2-110-109-0-6	6	RH	N Berm	1032-1037 30-30	CC	P	ATOK	RH
3/22/2006	9:57	7539	DL	F	2-122-123-0-71	71	RH	N Berm	1102-1107 30-30	CC	P	ATOK	RH
3/22/2006	9:58	75200023	JP	F	2-111-109-6-28	22	RH	Tie in	1032-1037 30-30	CC	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EO0852

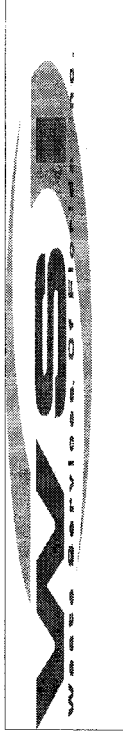
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/22/2006	9:58	75200022	BR	F	2-119-120-0-72	72	RH	N Berm	1100-1105 30-30	CC	P	ATOK	RH
3/22/2006	10:02	75200023	JP	F	2-112-109-28-46	22	RH	Tie in	1035-1040 30-30	CC	P	ATOK	RH
3/22/2006	10:05	75200023	JP	F	2-112-108-46-56	10	RH	N Berm	1036-1041 30-30	CC	P	ATOK	RH
3/22/2006	10:07	75200023	JP	F	2-112-108-56-72	16	RH	Tie in	1041-1046 30-30	CC	P	ATOK	RH
3/22/2006	10:15	7539	DL	F	2-123-124-071	71	RH	N Berm	1107-1112 30-30	CC	P	ATOK	RH
3/22/2006	10:16	7537	OF	F	2-121-122-0-72	72	RH	N Berm	1101-1106 30-30	CC	P	ATOK	RH
3/22/2006	10:16	75200022	BR	F	2-125-126-0-71	71	RH	N Berm	1109-1114 30-30	CC	P	ATOK	RH
3/22/2006	10:25	75200023	JP	F	2-130-131-0-34	34	RH	sump	1450-1455 30-30	CC	P	ATOK	RH
3/22/2006	10:31	7539	DL	F	2-124-125-0-71	71	RH	N Berm	1107-1112 30-30	CC	P	ATOK	RH
3/22/2006	10:34	75200023	JP	F	2-131-13-0-45	45	RH	sump	1455-1500 30-30	CC	P	ATOK	RH
3/22/2006	10:35	75200022	BR	F	2-126-127-0-71	71	RH	N Berm	1109-1114 30-30	CC	P	ATOK	RH
3/22/2006	10:45	7537	OF	F	2-128-129-0-71	71	RH	N Berm	1115-1120 30-30	CC	P	ATOK	RH
3/22/2006	10:50	75200023	JP	F	2-133-132-0-56	56	RH	sump	1500-1505 30-30	CC	P	ATOK	RH
3/22/2006	11:05	7537	OF	F	2-127-128-0-71	71	RH	N Berm	1118-1123 30-30	CC	P	ATOK	RH
3/22/2006	11:12	75200022	BR	F	2-113-107-72-87	15	RH	Tie in	1127-1132 30-30	CC	P	ATOK	RH
3/22/2006	11:14	75200022	BR	F	2-114-106-108-110	2	RH	Tie in	patched	DL	P	VTOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EO0852

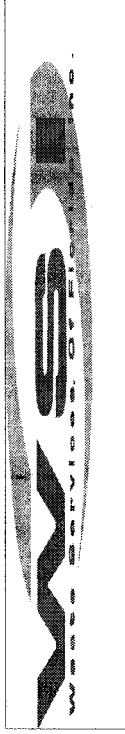
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/22/2006	11:15	75200022	BR	F	2-114-107-87-100	13	RH	Tie in	1127-1132 30-30	CC	P	ATOK	RH
3/22/2006	11:15	75200022	BR	F	2-115-106-110-132	22	RH	Tie in	1130-1135 30-30	CC	P	ATOK	RH
3/22/2006	11:17	75200022	BR	F	2-114-107-100-108	8	RH	Tie in	patched	DL	P	VTOK	RH
3/22/2006	11:22	75200022	BR	F	2-116-106-132-155	23	RH	Tie in	1130-1135 30-30	CC	P	ATOK	RH
3/22/2006	11:24	75200022	BR	F	2-118-104-178-192	14	RH	Tie in	1138-1143 30-30	CC	P	ATOK	RH
3/22/2006	11:25	7537	OF	F	2-129-132-3-25	22	RH	sump	1456-1501 30-30	CC	P	ATOK	RH
3/22/2006	11:25	7537	OF	F	2-129-133-0-3	3	RH	N Berm	1501-1506 30-30	CC	P	ATOK	RH
3/22/2006	12:25	75200023	JP	F	2-135-136-0-25	25	DH	sump	1512-1517 30-30	CC	P	ATOK	RH
3/22/2006	11:26	75200022	BR	F	2-117-104-161-178	17	RH	Tie in	1132-1137 30-30	CC	P	ATOK	RH
3/22/2006	11:26	75200022	BR	F	2-117-106-155-161	6	RH	Tie in	1132-1137 30-30	CC	P	ATOK	RH
3/22/2006	11:30	7537	OF	F	2-129-131-25-48	23	RH	sump	1451-1456 30-30	CC	P	ATOK	RH
3/22/2006	11:31	75200022	BR	F	2-118-105-192-201	9	RH	Tie in	1138-1143 30-30	CC	P	ATOK	RH
3/22/2006	11:31	75200022	BR	F	2-119-105-201-215	14	RH	Tie in	1139-1144 30-30	CC	P	ATOK	RH
3/22/2006	11:35	75200022	BR	F	2-119-103-215-223	8	RH	Tie in	1139-1144 30-30	CC	P	ATOK	RH
3/22/2006	11:36	75200022	BR	F	2-120-103-223-246	23	RH	Tie in	1149-1154 30-30	CC	P	ATOK	RH
3/22/2006	11:40	7537	OF	F	2-129-130-48-68	20	RH	N Berm	1444-1449 30-30	CC	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

TaskNo: 01

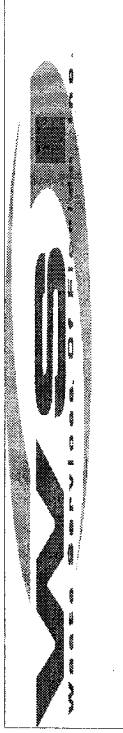
Material Type gml : 1 Specifications: Seam Pressure: 25-30 5 min Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/22/2006	11:44	75200022	BR	F	2-122-102-269-292	23	RH	Tie in	1203-1208 30-30	CC	P	ATOK	RH
3/22/2006	11:47	75200022	BR	F	2-121-103-246-269	23	RH	Tie in	1149-1154 30-30	CC	P	ATOK	RH
3/22/2006	11:47	75200022	BR	F	2-123-102-292-315	23	RH	Tie in	1153-1158 30-30	CC	P	ATOK	RH
3/22/2006	11:52	75200022	BR	F	2-124-100-322-337	15	RH	Tie in	1401-1406 30-30	CC	P	ATOK	RH
3/22/2006	11:52	75200022	BR	F	2-124-102-315-322	7	RH	Tie in	1400-1405 30-30	CC	P	ATOK	RH
3/22/2006	11:54	75200022	BR	F	2-125-100-337-360	23	RH	Tie in	1403-1408 30-30	CC	P	ATOK	RH
3/22/2006	11:59	75200022	BR	F	2-126-098-374-383	9	RH	Tie in	1405-1410 30-30	CC	P	ATOK	RH
3/22/2006	11:59	75200022	BR	F	2-127-098-383-406	23	RH	Tie in	1406-1411 30-30	CC	P	ATOK	RH
3/22/2006	12:03	75200022	BR	F	2-128-098-406-428	22	RH	Tie in	1407-1412 30-30	CC	P	ATOK	RH
3/22/2006	12:07	75200022	BR	F	2-129-097-428-435	7	RH	Tie in	1408-1413 -30-30	CC	P	ATOK	RH
3/22/2006	12:12	75200022	BR	F	2-130-97-435-465	30	RH	C FLOOR	1409-1414 30-30	CC	P	ATOK	RH
3/22/2006	14:12	75200023	JP	F	2-133-134-0-24	25	RH	sump	1510-1515 30-30	CC	P	ATOK	RH
3/22/2006	14:20	75200022	BR	F	2-134-135-0-27	27	DH	sump	1511-1516 30-30	CC	P	ATOK	RH
3/22/2006	14:35	75200023	JP	F	2-136-137-0-26	26	DH	sump	1530-1535 30-30	CC	P	ATOK	RH
3/22/2006	14:49	7539	DL	F	2-142-141-0-27	27	RH	sump	1557-1602 30-30	CC	P	ATOK	RH
3/22/2006	14:50	75200023	JP	F	2-137-138-0-33	33	DH	sump	1531-1536 30-30	CC	P	ATOK	RH



Production Seam Log



Project: I.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

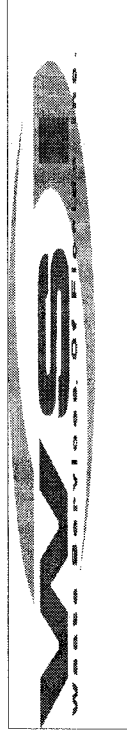
TaskNo: 01

Vacuum Box: 5 lbs. 20 secs.

Material Type gml : 1 Specifications: Seam Pressure: 25-30 5 min

Primary / Secondary: Primary Series: 2

Production Seam					Location		Nondestructive Test						
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam/No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/22/2006	14:57	7539	DL	F	2-140-141-0-36	36	DH	sump	1555-1600 30-30	CC	P	ATOK	DH
3/22/2006	15:05	75200022	JP	F	2-138-139-0-28	28	DH	sump	1522-1527 30-30	CC	P	ATOK	DH
3/22/2006	15:06	7539	DL	F	2-139-140-0-45	45	DH	sump	1542-1547 30 30	CC	P	ATOK	DH
3/22/2006	15:21	7539	DL	F	2-133-139-65-68	3	RH	sump	1540-1545 30-30	CC	P	ATOK	RH
3/22/2006	15:24	7539	DL	F	2-132-139-50-65	15	RH	sump	1541-1546 30-30	CC	P	ATOK	RH
3/22/2006	15:25	75200022	JP	F	2-141-143-27-51	24	RH	E berm	1630-1635 30-30	CC	P	ATOK	DH
3/22/2006	15:25	75200023	JP	F	2-142-143-51-67	16	RH	E berm	1617-1622 30-30	CC	P	ATOK	RH
3/22/2006	15:26	7539	DL	F	2-132-140-42-50	8	RH	sump	1550-1555 30-30	CC	P	ATOK	RH
3/22/2006	15:28	7539	DL	F	2-131-140-28-42	14	RH	sump	1551-1556 30-30	CC	P	ATOK	RH
3/22/2006	15:30	7539	DL	F	2-131-141-20-28	8	RH	sump	1556-1601 30-30	CC	P	ATOK	RH
3/22/2006	15:30	75200022	JP	F	2-139-143-0-2	2	DH	E berm	1632-1637 30-30	CC	P	ATOK	DH
3/22/2006	15:30	75200022	JP	F	2-140-143-2-27	25	DH	E berm	1631-1636 30-30	CC	P	ATOK	DH
3/22/2006	15:32	7539	DL	F	2-130-141-5-20	15	RH	sump	1558-1603 30-30	CC	P	ATOK	RH
3/22/2006	15:40	75200022	BR	F	2-142-096-465-490	25	RH	Tie in	1615-1620 30-30	CC	P	ATOK	RH
3/22/2006	15:41	7539	DL	F	2-143-096-490-495	5	RH	Tie in	1616-1621 30-30	CC	P	ATOK	RH
3/22/2006	15:45	7539	DL	F	2-143-095-495-513	18	RH	C FLOOR	1618-1623 30-30	CC	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: FQ0852

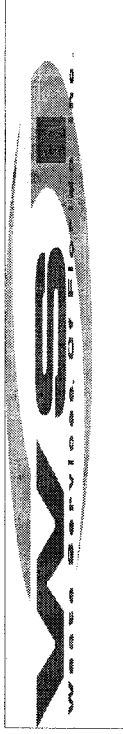
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/22/2006	18:17	7402	LS	E	2-139-144-0-13	13	DH	sump	ext seam	CC	P	VTOK	RH
3/22/2006	18:23	7402	LS	E	2-133-144-13-40	27	DH	sump	ext seam	CC	P	VTOK	DH
3/22/2006	18:30	7402	LS	E	2-134-144-40-46	6	DH	sump	ext seam	CC	P	STOK	DH
3/22/2006	18:34	7402	LS	E	2-135-144-46-50	4	DH	sump	ext seam	CC	P	STOK	DH
3/22/2006	18:36	7402	LS	E	2-136-144-50-72	22	DH	sump	ext seam	CC	P	STOK	DH
3/22/2006	18:42	7402	LS	E	2-137-144-72-74	2	DH	sump	ext seam	CC	P	STOK	DH
3/22/2006	18:47	7402	LS	E	2-138-144-74-80	6	RH	sump	ext seam	CC	P	STOK	RH
3/27/2006	8:35	75200023	JP	F	2-145-051-219-0	219	RH	E berm	930-935 30-30	CC	P	ATOK	RH
3/27/2006	8:39	75200022	BR	F	2-147-148-203-169	34	RH	C FLOOR	947-952 30-30	CC	P	ATOK	RH
3/27/2006	8:42	7537	OF	F	2-146-147-0-23	23	RH	C FLOOR	951-956 30-30	CC	P	ATOK	RH
3/27/2006	8:50	75200022	BR	F	2-146-148-169-0	169	RH	E berm	947-952 30-30	CC	P	ATOK	RH
3/27/2006	8:51	7539	DL	F	2-145-147-211-168	43	RH	C FLOOR	945-950 30-30	CC	P	ATOK	RH
3/27/2006	9:02	7539	DL	F	2-145-146-168-0	168	RH	E berm	945-950 30-30	CC	P	ATOK	RH
3/27/2006	9:14	75200022	BR	F	2-149-150-0-23	23	RH	C FLOOR	949-954 30-30	CC	P	ATOK	RH
3/27/2006	9:25	75200023	JP	F	2-150-151-188-161	27	RH	C FLOOR	1002-1007 30-30	CC	P	ATOK	RH
3/27/2006	9:28	75200023	JP	F	2-149-151-161-0	161	RH	E berm	1002-1007 30-30	CC	P	ATOK	RH



Production Seam Log

Project: I.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: FQ0852 TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30 5 min Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus?	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/27/2006	9:30	75200022	BR	F	2-148-150-196-159	37	RH	C FLOOR	948-953 30-30	CC	P	ATOK	RH
3/27/2006	9:37	75200022	BR	F	2-148-149-159-0	159	RH	E berm	1001-1006 30-30	CC	P	ATOK	RH
3/27/2006	9:37	7539	DL	F	2-152-153-0-23	23	RH	C FLOOR	1017-1022 30-30	CC	P	ATOK	RH
3/27/2006	9:48	7539	DL	F	2-151-153-177-145	32	RH	C FLOOR	1016-1021 30-30	CC	P	ATOK	RH
3/27/2006	9:54	7539	DL	F	2-151-152-145-46	99	RH	C FLOOR	1016-1021 30-30	CC	P	ATOK	RH
3/27/2006	10:03	75200023	JP	F	2-153-154-170-147	23	RH	E berm	1019-1024 30-30	CC	P	ATOK	RH
3/27/2006	10:06	7539	DL	F	2-151-152-46-0	46	RH	E berm	1025-1028 30-30	CC	P	ATOK	RH
3/27/2006	10:06	75200022	BR	F	2-154-155-162-0	162	RH	E berm	1033-1038 30-30	CC	P	ATOK	RH
3/27/2006	10:07	75200023	JP	F	2-152-154-147-0	147	RH	E berm	1036-1041 30-30	CC	P	ATOK	RH
3/27/2006	10:27	7539	DL	F	2-156-157-0-23	23	RH	C FLOOR	1046-1051 30-30	CC	P	ATOK	RH
3/27/2006	10:36	7539	DL	F	2-155-156-155-117	38	RH	C FLOOR	1046-1051 30-30	CC	P	ATOK	RH
3/27/2006	10:36	75200022	BR	F	2-156-158-147-120	27	RH	C FLOOR	1047-1052 30-30	CC	P	ATOK	RH
3/27/2006	10:41	7539	DL	F	2-155-157-117-0	117	RH	E berm	1102-1107 30-30	CC	P	ATOK	RH
3/27/2006	10:41	75200022	BR	F	2-157-158-120-0	120	RH	E berm	1059-1104 30-30	CC	P	ATOK	RH
3/27/2006	10:42	75200023	JP	F	2-159-160-0-23	23	RH	C FLOOR	1314-1319 30-29	CC	P	ATOK	RH
3/27/2006	12:56	75200023	JP	F	2-158-160-140-115	25	RH	C FLOOR	1315-1320 30-29	CC	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: FQ0852

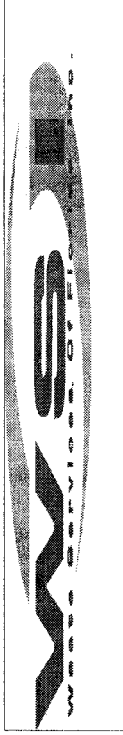
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/27/2006	13:00	75200022	BR	F	2-159-161-134-114	20	RH	C FLOOR	1316-1321 30-29	CC	P	ATOK	RH
3/27/2006	13:01	7539	DL	F	2-161-162-125-0	125	RH	E berm	1326-1331 30-27	CC	P	ATOK	RH
3/27/2006	13:02	75200023	JP	F	2-158-159-115-0	115	RH	E berm	1324-1329 30-29	CC	P	ATOK	RH
3/27/2006	13:03	75200022	BR	F	2-159-161-114-0	114	RH	E berm	1325-1330 30-28	CC	P	ATOK	RH
3/27/2006	13:25	75200023	JP	F	2-163-164-0-23	23	RH	C FLOOR	1355-1400 32-32	CC	P	ATOK	RH
3/27/2006	13:29	7539	DL	F	2-164-165-108-89	19	RH	C FLOOR	1345-1350 30-28	CC	P	ATOK	RH
3/27/2006	13:30	75200022	BR	F	2-165-166-100-0	100	RH	E berm	1413-1418 30-30	CC	P	ATOK	RH
3/27/2006	13:32	75200023	JP	F	2-162-164-118-87	31	RH	C FLOOR	1344-1349 30-30	CC	P	ATOK	RH
3/27/2006	13:32	7539	DL	F	2-163-165-89-0	89	RH	E berm	1406-1411 30-28	CC	P	ATOK	RH
3/27/2006	13:37	75200023	JP	F	2-162-163-87-22	65	RH	E berm	1404-1409 30-30	CC	P	ATOK	RH
3/27/2006	13:52	75200023	JP	F	2-166-167-90-0	90	RH	E berm	1413-1418 30-30	CC	P	ATOK	RH
3/27/2006	13:58	75200023	JP	F	2-167-168-80-0	80	RH	E berm	1436-1441 30-30	CC	P	ATOK	RH
3/27/2006	14:00	75200022	BR	F	2-046-162-620-603	17	RH	Tie in		CC	P	ATOK	RH
3/27/2006	14:00	75200022	BR	F	2-047-162-624-620	4	RH	Tie in		CC	P	ATOK	RH
3/27/2006	14:03	75200023	JP	F	2-162-163-22-0	22	RH	E berm	1408-1413 30-30	CC	P	ATOK	RH
3/27/2006	14:04	75200022	BR	F	2-045-161-598-578	20	RH	Tie in		CC	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

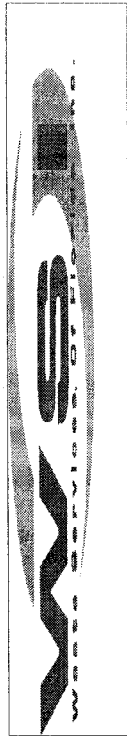
ProjNo: EQ0852

TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series: Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/27/2006	14:04	75200022	BR	F	2-046-161-603-598	5	RH	Tie in		CC	P	ATOK	RH
3/27/2006	14:08	75200022	BR	F	2-044-160-575-553	22	RH	Tie in		CC	P	ATOK	RH
3/27/2006	14:08	75200022	BR	F	2-045-160-578-575	3	RH	Tie in	patched	DL	P	VTOK	RH
3/27/2006	14:12	75200022	BR	F	2-043-158-553-530	23	RH	Tie in		CC	P	ATOK	RH
3/27/2006	14:15	75200022	BR	F	2-042-156-528-508	20	RH	Tie in		CC	P	ATOK	RH
3/27/2006	14:15	75200022	BR	F	2-042-158-530-528	2	RH	Tie in	patched	DL	P	VTOK	RH
3/27/2006	14:18	75200022	BR	F	2-041-155-503-485	18	RH	Tie in		CC	P	ATOK	RH
3/27/2006	14:18	75200022	BR	F	2-041-156-508-503	5	RH	Tie in		CC	P	ATOK	RH
3/27/2006	14:20	7539	DL	F	2-168-169-72-0	72	RH	E berm	1436-1441 30-30	CC	P	ATOK	RH
3/27/2006	14:22	75200022	BR	F	2-040-154-478-463	15	RH	Tie in		CC	P	ATOK	RH
3/27/2006	14:22	75200022	BR	F	2-040-155-485-478	7	RH	Tie in		CC	P	ATOK	RH
3/27/2006	14:25	75200022	BR	F	2-039-154-463-453	10	RH	Tie in		CC	P	ATOK	RH
3/27/2006	14:26	75200022	BR	F	2-039-153-453-440	13	RH	Tie in		CC	P	ATOK	RH
3/27/2006	14:27	75200022	BR	F	2-038-153-440-428	8	RH	Tie in		CC	P	ATOK	RH
3/27/2006	14:28	75200022	BR	F	2-038-151-428-417	11	RH	Tie in		CC	P	ATOK	RH
3/27/2006	14:29	75200022	BR	F	2-037-151-417-403	14	RH	Tie in		CC	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

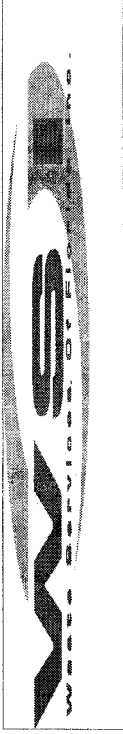
ProjNo: EQ0852

TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam				Location			Nondestructive Test		
Date	Time	Mach. ID	Oper. ID	Ext/Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Action
3/27/2006	14:30	75200022	BR	F	2-036-150-394-377	17	RH	Tie in	ATOK
3/27/2006	14:30	75200022	BR	F	2-037-150-403-394	9	RH	Tie in	ATOK
3/27/2006	14:30	7539	DL	F	2-143-169-067-0	67	RH	E berm	ATOK
3/27/2006	14:36	75200022	BR	F	2-035-148-371-352	19	RH	Tie in	ATOK
3/27/2006	14:36	75200022	BR	F	2-036-148-377-371	6	RH	Tie in	ATOK
3/27/2006	14:40	75200022	BR	F	2-034-147-349-326	23	RH	Tie in	ATOK
3/27/2006	14:40	75200022	BR	F	2-035-147-352-349	3	RH	Tie in	ATOK
3/27/2006	14:43	75200022	BR	F	2-033-145-326-302	24	RH	Tie in	ATOK
3/27/2006	15:00	75200022	BR	F	2-094-168-733-751	18	RH	Tie in	ATOK
3/27/2006	15:00	75200022	BR	F	2-094-169-751-755	4	RH	Tie in	ATOK
3/27/2006	15:00	75200022	BR	F	2-095-169-755-758	3	RH	Tie in	ATOK
3/27/2006	15:03	75200022	BR	F	2-093-168-729-733	4	RH	Tie in	ATOK
3/27/2006	15:06	75200022	BR	F	2-050-167-703-711	8	RH	Tie in	ATOK
3/27/2006	15:06	75200022	BR	F	2-093-167-711-729	18	RH	Tie in	ATOK
3/27/2006	15:09	75200022	BR	F	2-049-166-678-688	10	RH	Tie in	ATOK
3/27/2006	15:09	75200022	BR	F	2-050-166-688-703	15	RH	Tie in	ATOK



Production Seam Log

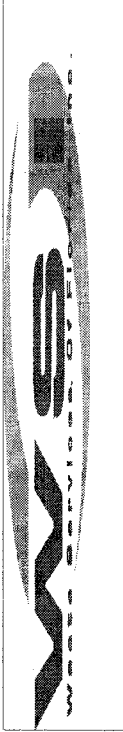
Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: FQ0852 TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Primary Series: 2

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/27/2006	15:13	75200022	BR	F	2-049-165-666-678	12	RH	Tie in		CC	P	ATOK	RH
3/27/2006	15:14	75200022	BR	F	2-048-165-654-666	12	RH	Tie in		CC	P	ATOK	RH
3/27/2006	15:15	75200022	BR	F	2-048-164-643-654	11	RH	Tie in		CC	P	ATOK	RH
3/27/2006	15:16	75200022	BR	F	2-047-162-624-628	4	RH	Tie in		CC	P	ATOK	RH
3/27/2006	15:16	75200022	BR	F	2-047-164-628-643	15	RH	Tie in		CC	P	ATOK	RH
7/6/2013	11:23	75200022	BR	F	2-037-038-38-407	369	RH	W BERM	1349-1354 30-30	CC	P	ATOK	RH
7/6/2013	16:17	74300014	LS	E	2-040-EXT-467-490	23	RH	WTS	EXT SEAM	DL	P	VTOK	DH



Location: 1501 Omni Way St Cloud Florida
Description: Cell 2 Construction

Location: 1501 Omni Way St Cloud Florida

Description: Cell 2 Construction

TaskNo: 01

Seam Pressure: 25-30 5 min

Specifications:

Material Type gml : 1

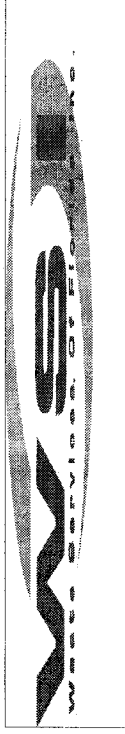
Primary / Secondary: Primary

[illegible]

Total Length Extrusion: 1083

Comments:

2-008-021-111-134:s icb tie in; 2-009-021-134-156:s icb tie in; 2-010-021-156-179:s icb tie in; 2-011-021-179-202:s icb tie in; 2-012-021-202-224:s icb tie in; 2-013-021-224-247:s icb tie in; 2-014-021-247-269:s icb tie in; 2-015-021-269-292:s icb tie in; 2-016-021-292-315:s icb tie in; 2-017-021-315-338:s icb tie in; 2-018-021-338-361:s icb tie in; 2-019-021-361-383:s icb tie in; 2-020-021-383-406:s icb tie in; 2-027-058-166-177:east tie in; 2-028-055-202-212:east tie in; 2-028-056-190-202:east tie in; 2-029-054-227-237:east tie in; 2-030-054-235-252:east tie in; 2-03-053-252-258:east tie in; 2-031-051-277-280:east tie in; 2-031-052-258-277:east tie in; 2-032-051-280-302:east tie in; 2-031-052-144-276:east tie in; 2-020-091-30-0:s icb tie in; 2-021-065-32-51:east tie in; 2-022-064-51-76:east tie in; 2-023-062-76-99:east tie in; 2-024-060-102-123:east tie in; 2-024-062-99-102:east tie in; 2-025-059-127-144:east tie in; 2-025-060-122-127:east tie in; 2-026-058-152-166:east tie in; 2-026-059-144-152:east tie in; 2-027-056-177-190:east tie in; 2-117-106-155-161:n berm; 2-118-104-178-192:n berm; 2-118-105-192-201:n berm; 2-119-103-215-223:n berm; 2-119-105-201-215:n berm; 2-119-120-0-72:n berm; 2-120-121-0-72:n berm; 2-121-103-246-269:n berm; 2-121-122-0-72:n berm; 2-122-102-269-292:n berm; 2-122-123-0-71:n berm; 2-123-124-071:n berm; 2-124-100-322-337:n berm; 2-124-102-315-322:n berm; 2-124-125-0-71:n berm; 2-125-100-337-360:n berm; 2-125-126-0-71:n berm; 2-126-098-374-383:n berm; 2-126-127-0-71:n berm; 2-127-098-383-406:n berm; 2-127-128-0-71:n berm; 2-128-098-406-428:n berm; 2-092-006-0-30:s icb tie in; 2-092-007-0-30:s icb tie in; 2-093-ext-720-743:west tie in; 2-094-ext-743-766:west tie in; 2-095-ext-766-789:west tie in; 2-096-ext-789-811:west tie in; 2-097-ext-811-833:west tie in; 2-098-ext-833-857:west tie in; 2-099-ext-857-879:west tie in; 2-101-ext-879-902:west tie in; 2-103-ext-902-924:west tie in; 2-104-ext-924-947:west tie in; 2-106-ext-947-970:west tie in; 2-107-ext-970-988:west tie in; 2-108-ext-988-1010:west tie in; 2-108-109-0-35:w berm; 2-110-109-0-60:n berm; 2-110-111-0-40:n berm; 2-111-109-6-28:east tie in; 2-111-112-0-41:n berm; 2-112-108-46-56:east tie in; 2-112-108-56-72:east tie in; 2-112-109-28-46:east tie in; 2-112-113-0-57:n berm; 2-113-107-72-87:n berm; 2-114-106-108-110:n berm; 2-114-107-100-108:n berm; 2-114-107-87-100:n berm; 2-114-115-0-70:n berm; 2-115-106-110-132:n berm; 2-115-116-0-71:n berm; 2-116-106-132-155:n berm; 2-116-117-0-71:n berm; 2-117-104-161-178:n berm; 2-128-129-0-71:n berm; 2-129-097-428-435:n berm; 2-129-131-25-48:n berm; 2-129-132-3-25:sump; 2-129-133-0-3:n berm; 2-130-131-0-34:sump; 2-130-141-5-20:sump; 2-130-97-435-465:east tie in; 2-131-13-0-45:sump; 2-131-140-28-42:sump; 2-131-141-20-28:sump; 2-132-139-50-65:sump; 2-132-140-42-50:sump; 2-133-132-0-56:sump; 2-133-134-0-24:sump; 2-133-139-65-68:sump; 2-133-144-13-40:sump; 2-134-135-0-17:sump; 2-134-144-40-46:sump; 2-135-136-0-25:sump; 2-135-144-46-50:sump; 2-136-137-0-26:sump; 2-136-144-50-72:sump; 2-137-138-0-33:sump; 2-137-144-72-74:sump; 2-138-139-0-28:sump; 2-138-144-74-80:sump; 2-139-140-0-45:sump; 2-



Production Seam Log

Project: J.E.D. Solid Waste Landfill
Location: 1501 Omni Way St Cloud Florida
Description: Cell 2 Construction

ProjNo: FQ0852

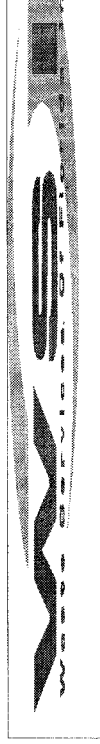
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30 5 min

Vacuum Box: 5 lbs. 20 secs.

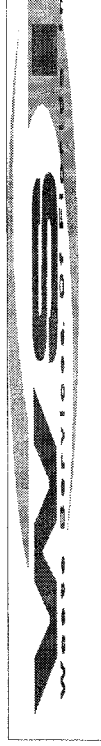
Primary / Secondary: Primary Series: 2

Production Seam				Location			Nondestructive Test			
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper. Result Action QA ID
139-143-0-2: east berm; 2-139-144-0-13: sump; 2-140-141-0-36: sump; 2-140-143-2-27: east berm; 2-141-143-27-51: east berm; 2-142-096-465-490: east tie in; 2-142-141-0-27: sump; 2-142-143-51-67: east berm; 2-143-095-495-513: east tie in; 2-143-096-490-495: east tie in; 2-129-130-48-68: n berm; 2-145-051-219-0: east berm; 2-145-146-168-0: east berm; 2-145-147-211-168: east berm; 2-146-147-0-23: east berm; 2-146-148-169-0: east berm; 2-147-148-203-169: east berm; 2-148-149-159-0: east berm; 2-148-150-196-159: east berm; 2-149-150-0-23: east berm; 2-149-151-161-0: east berm; 2-150-151-188-161: east berm; 2-151-152-145-46: east berm; 2-151-152-46-0: east berm; 2-151-153-177-145: east berm; 2-152-153-0-23: east berm; 2-152-154-147-0: east berm; 2-153-154-170-147: east berm; 2-154-155-162-0: east berm; 2-155-156-155-117: east berm; 2-155-157-117-0: east berm; 2-156-157-0-23: east berm; 2-156-158-147-120: east berm; 2-157-158-120-0: east berm; 2-159-160-0-23: east berm; 2-034-147-349-326: east tie in; 2-035-147-352-349: east tie in; 2-035-148-371-352: east tie in; 2-036-148-377-371: east tie in; 2-036-150-394-377: east tie in; 2-037-150-403-394: east tie in; 2-037-151-417-403: east tie in; 2-038-151-428-417: east tie in; 2-038-153-440-428: east tie in; 2-039-153-453-440: east tie in; 2-039-154-463-453: east tie in; 2-040-154-478-463: east tie in; 2-040-155-485-478: east tie in; 2-041-155-503-485: east tie in; 2-041-156-508-503: east tie in; 2-042-156-528-508: east tie in; 2-042-158-530-528: east tie in; 2-043-158-553-530: east tie in; 2-044-160-575-553: east tie in; 2-045-160-578-575: east tie in; 2-045-161-598-578: east tie in; 2-046-161-603-598: east tie in; 2-046-162-620-603: east tie in; 2-047-162-624-620: east tie in; 2-047-162-624-628: east tie in; 2-049-166-678-688: east tie in; 2-050-166-688-703: east tie in; 2-048-164-643-654: east tie in; 2-048-165-654-666: east tie in; 2-049-165-666-678: east tie in; 2-049-166-678-688: east tie in; 2-050-166-688-703: east tie in; 2-050-167-703-711: east tie in; 2-093-167-711-729: east tie in; 2-093-168-729-733: east tie in; 2-094-168-733-751: east tie in; 2-094-169-751-755: east tie in; 2-095-169-755-758: east tie in; 2-143-169-067-0: east berm; 2-158-159-115-0: east berm; 2-158-160-140-115: east berm; 2-159-161-114-0: east berm; 2-162-164-118-87: east berm; 2-163-164-0-23: east berm; 2-163-165-89-0: east berm; 2-164-165-108-89: east berm; 2-165-166-100-0: east berm; 2-166-167-90-0: east berm; 2-167-168-80-0: east berm; 2-168-169-72-0: east berm										



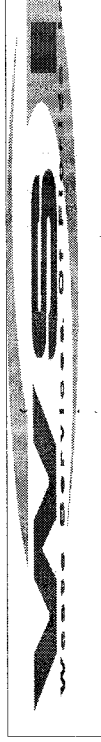
Repair Summary Log

Primary / Secondary:				Primary		Series: 2												
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	
	2-0272		P	51/53		47 FEAT		11	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
2/28/2006	2-0002		P	1/4/5/21		30 FSAT		5	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
2/28/2006	2-0015	2-001	C	16/17		24 FSAT		6	2		74300014	LS	DH	3/1/2006	MP	P	VTOK	DH
2/28/2006	2-0003		P	5/6/21		30 FSAT		2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
2/28/2006	2-0004		P	6/7/21		30 FSAT		2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
2/28/2006	2-0022		P	1/ext		26 FSE		3	2		74300002	JP	DH	3/1/2006	DL	P	VTOK	DH
2/28/2006	2-0009		P	11/12/21		30 FSAT		2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
2/28/2006	2-0011		P	13/14/21		30 FSAT		2	2	0	74300014	LS	DH	3/8/2006	DL	P	VTOK	DH
2/28/2006	2-0007		P	9/10/21		30 FSAT		2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
2/28/2006	2-0008		P	10/11/21		30 FSAT		2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
2/28/2006	2-0010		P	12/13/21		30 FSAT		2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
2/28/2006	2-0006		P	8/9/21		30 FSAT		2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
2/28/2006	2-0005		P	7/8/21		30 FSAT		2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0001		P	1/2/3/4		44 FWTS		4	3	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0021		P	1/2/ext		16 FSE		2	2		74300002	OF	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0023		P	1/21/ext		38 FSE		2	2		74300002	OF	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0024		P		21	3 FWTI	10 N	2	2		74300002	OF	DH	3/1/2006	DL	P	VTOK	DH



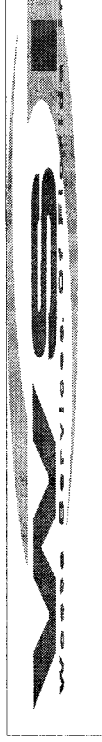
Repair Summary Log

Primary / Secondary: Primary				Series: 2														
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
3/1/2006	2-0025		P	21/ext		49 FSE		2	2		74300002	OF	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0026		P	21/22/ext		60 FSE		2	2		74300002	OF	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0027		P	22/ext		72 FSE		2	2		74300002	OF	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0028		P	22/23/ext		83 FSE		2	2		74300002	OF	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0029		P	23/ext		95 FSE		2	2		74300002	OF	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0030		P	23/24/ext		107 FSE		2	2		74300002	OF	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0031		P	24/ext		118 FSE		2	2		74300002	OF	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0032		P	24/25/ext		130 FSE		3	2		74300002	OF	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0033		P	25/ext		141 FSE		2	2		74300002	OF	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0034		P	25/26/ext		153 FSE		2	2		74300002	OF	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0035		P	26/ext		164 FSE		2	2		74300002	OF	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0036		P		26	3 FWTI	10 N	2	2		74300002	OF	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0037		P	26/27		10 FWTI		2	2		74300002	OF	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0038		P	26/27/ext		176 FSE		2	2		74300002	OF	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0039		P	27/ext		187 FSE		2	2		74300002	OF	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0040		P	27/28/ext		199 FSE		2	2		74300002	OF	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0041		P	28/ext		210 FSE		2	2		74300002	OF	DH	3/1/2006	DL	P	VTOK	DH



Repair Summary Log

Primary / Secondary:				Primary		Series: 2												
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
3/1/2006	2-0042	2-03	P	22/23		50 FWTI		6	2		74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0045	2-04	P	23/24		150 FWTI		6	2		74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0048	2-05	P	24/25		250 FWTI		6	2		74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0051	2-06	P	25/26		352 FWTI		6	2		74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0044		P	26/27		88 FWTI		2	2		74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0046		P	26/27		135 FWTI		2	2		74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0047		P	26/27		190 FWTI		2	2		74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0049		P	26/27		256 FWTI		2	2		74300014	LS	DH	3/1/2006	CC	P	VTOK	DH
3/1/2006	2-0050		P	26/26		261 FWTI		2	2		74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	2-0043	2-07	P	27/28		50 FWTI		6	2		74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/3/2006	2-0053		P	2/ext		0-5 FSE		5	2		74300014	AN	DH	3/3/2006	CC	P	VTOK	DH
3/3/2006	2-0052	1-034-A	P	2/ext		7 FSE		5	2		74300014	AN	DH	3/3/2006	CC	P	VTOK	DH
3/7/2006	2-0054		P	28/29/ext		222 FSAT		4	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/7/2006	2-0055		P	29/ext		234 FSAT		3	3		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/7/2006	2-0056		P	32/ext		298 FSAT		3	3		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/7/2006	2-0057		P	34/ext		345 FSAT		2	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/7/2006	2-0058		P	37/38		38 FWTI		3	3		74300014	LS	DH	3/10/2006	BR	P	VTOK	DH



Repair Summary Log

Primary / Secondary:				Primary		Series: 2												
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
3/8/2006	2-0059		P	29/30/ext		244 FSAT		2	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0060		P	30/ext		255 FSAT		2	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0061		P	30/31/ext		267 FSAT		2	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0062		P	31/ext		278 FSAT		2	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0063		P		31	3 FWTI	4 S	2	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0064		P	31/32/ext		289 FSAT		2	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0065		P	32/33/ext		312 FSAT		2	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0088	2-018	P	33/ext		328 FSAT		6	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0067		P	33/34/ext		335 FSAT		2	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0068		P		34	4 FWTI	11 N	2	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0069		P		34	7 FWTI	10 N	2	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0070		P	34/35/ext		357 FSAT		2	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0066		P	33/ext		323 FSAT		2	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0071		P	35/ext		368 FSAT		2	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0073		P	36/37/ext		403 FSAT		3	2		74300002	JP	DH	3/8/2006	JR	P	VTOK	DH
3/8/2006	2-0072		P	35/36/ext		380 FSAT		3	2		74300002	JP	DH	3/8/2006	JR	P	VTOK	DH
3/8/2006	2-0074		P	37/38/ext		426 FSAT		3	2		74300002	JP	DH	3/8/2006	JR	P	VTOK	DH

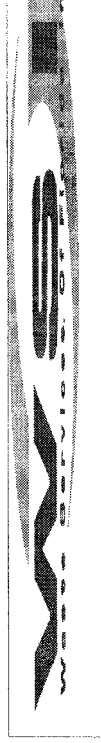
Wednesday, April 12, 2006

Page 4 of 20



Repair Summary Log

Primary / Secondary: Primary				Series: 2														
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	
3/8/2006	2-0075		P	38/39/ext		448 FSAT		3	2		74300002	JP	DH	3/8/2006	JR	P	VTOK	DH
3/8/2006	2-0076		P	39/40/ext		471 FSAT		3	2		74300002	JP	DH	3/8/2006	JR	P	VTOK	DH
3/8/2006	2-0079	2-08	P	28/29		150 FWTI		6	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0082	2-09	P	29/30		250 FWTI		6	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0085	2-10	P	30/31		350 FWTI		6	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0078	2-011	P	32/33		50 FWTI		6	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0080	2-012	P	33/34		150 FWTI		6	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0083	2-013	P	34/35		250 FWTI		6	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0086	2-014	P	35/36		350 FWTI		6	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0077	2-015	P	37/38		50 FWTI		6	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0081	2-016	P	38/39		150 FWTI		6	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0084		P	39/40		288 FWTI		3	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/8/2006	2-0087	2-017	P	39/40		350 FWTI		6	2		74300002	JP	DH	3/10/2006	BR	P	VTOK	DH
3/15/2006	2-0089		P	40/41/ext		494 FSAT		3	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH
3/15/2006	2-0090		P	45/ext		601 FSAT		4	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH
3/15/2006	2-0091		P	45/46/ext		606 FSAT		4	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH
3/16/2006	2-0092		P		41	4 FWTI	1 S	2	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH



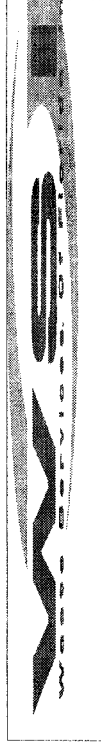
Repair Summary Log

Primary / Secondary:				Primary		Series: 2												
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
3/16/2006	2-0093		P	41/42/ext		516 FSAT		4	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH
3/16/2006	2-0094		P	42/43/ext		538 FSAT		3	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH
3/16/2006	2-0095		P		43	3 FWTI	7 S	2	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH
3/16/2006	2-0096		P	43/44/ext		561 FSAT		3	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH
3/16/2006	2-0097		P	44/45/ext		584 FSAT		3	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH
3/16/2006	2-0098		P	46/47/ext		629 FSAT		4	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH
3/16/2006	2-0099		P	47/48/ext		652 FSAT		4	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH
3/16/2006	2-0100	2-027	P	48/ext		665 FSAT		6	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH
3/16/2006	2-0101		P	48/49/ext		675 FSAT		3	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH
3/16/2006	2-0102		P	49/50/ext		698 FSAT		3	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH
3/16/2006	2-0103	2-020	P	42/43		48 FWTI		6	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH
3/16/2006	2-0104	2-024	P	47/48		50 FWTI		6	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH
3/16/2006	2-0105	2-021	P	43/44		150 FWTI		6	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH
3/16/2006	2-0106	2-025	P	48/49		150 FWTI		6	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH
3/16/2006	2-0107	2-022	P	44/45		250 FWTI		6	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH
3/16/2006	2-0108	2-026	P	49/50		250 FWTI		6	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH
3/16/2006	2-0109	2-019	P	40/41		350 FWTI		6	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH



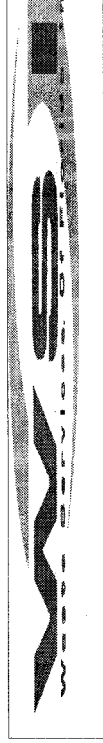
Repair Summary Log

Primary / Secondary: Primary										Series: 2								
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
3/16/2006	2-0110	2-023	P	45/46		350 FWTI		6	2		74300002	JP	DH	3/16/2006	CC	P	VTOK	DH
3/20/2006	2-0012		P	14/15/21		269 FWTI		3	2		7402	AN	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0013		P	15/16/21		292 FWTI		3	2		7402	AN	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0014		P	16/17/21		315 FWTI		6	2		7402	AN	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0016		P	17/18/21		338 FWTI		3	2		7402	AN	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0017		P	14/21		253 FWTI		2	2		7402	AN	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0018		P	18/19/21		361 FWTI		3	2		7402	AN	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0019	2-038	P	19/20/21		377 FWTI		14	2		7402	AN	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0111		P	31/32/51/52		226 FEAT		5	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0112		P	51/52/53		144	FEAT	2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0113		P		53	141 FEAT	6 N	2	2		74300002	JP	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0114	2-028	P	53/54		103 FEAT		6	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0115		P	52/53		141 FEAT		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0116		P	30/31/52		404 FWTI		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0117		P	30/52/54		233 FEAT		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0118		P	29/30/54		405 FWTI		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0119		P	29/54/55		241 FEAT		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH



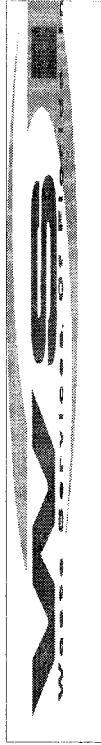
Repair Summary Log

Primary / Secondary:				Primary		Series: 2												
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		Non-Destructive Testing						
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID	Oper ID	QA ID	Date	Oper ID	Result (p/f)	Action	QA ID
3/20/2006	2-0120		P	55/56/57		109 FEAT		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0121	2-029	P	55/56		130 FEAT		6	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0122		P	28/29/55		404 FWTI		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0123		P	28/55/56		250 FEAT		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0124		P	27/28/56		404 FWTI		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0125		P	27/56/58		257 FEAT		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	RH
3/20/2006	2-0126		P	56/57/58		107 FEAT		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0127		C	26/27/58		2-404 FW		22	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0128		P	26/58/59		262 FEAT		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0129		P	25/26/59		404 FWTI		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0130		P	24/25/59/60		270 FEAT		6	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0131		C	24/25		5-404 FW		9	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0132	2-037	P	23/24/60/62		62 FSTI		12	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0133		P	22/23/62/64		286 FEAT		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0134		P	21/22/64/65		295 FEAT		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0135		P	64/65/66		258 FEAT		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0136		P	65/66		13 S		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH



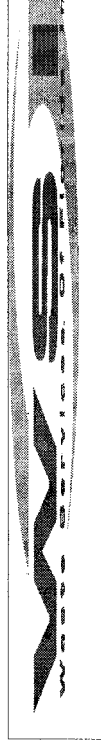
Repair Summary Log

Primary / Secondary: Primary														Series: 2				
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		Non-Destructive Testing						
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID	Oper ID	QA ID	Date	Oper ID	Result (p/f)	Action	QA ID
3/20/2006	2-0137		P	65/66/67		255 FEAT		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0148		P	66/67/68		159 FEAT		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0138	2-030	P	58/59		100 FEAT		6	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0149		P	67/68/70		155 FEAT		2	2		74300002	OF	DH	3/2/2006	MP	P	VTOK	DH
3/20/2006	2-0139		P	59/60/61		153FEAT		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0150		P	67/69/71		197 FEAT		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0151	2-034	P	70/71		100 FEAT		6	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0140		P	61/62/63		54 FEAT		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0152		P	71/72/73		98 FEAT		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0141	2-031	P	61/62		64 FEAT		6	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0142		P	60/61/62		151 FEAT		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0153		P	20/21/65/77/91		404 FWTT		11	2		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0143	2-032	P	62/64		240 FEAT		6	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0154		P	65/67/77		421 FWTT		2	2		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0144		P	62/64		152 FEAT		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0155		P	67/77/78		429 FWTT		2	2		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0145		P	62/63/64		53 FEAT		2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH



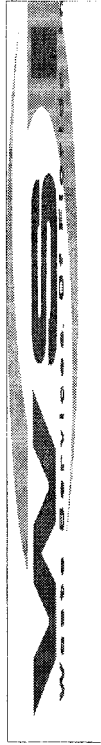
Repair Summary Log

Primary / Secondary: Primary				Series: 2														
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result: (p/f)	Action	QA ID
3/20/2006	2-0156		P	67/78/79		451 FWTI		2	2		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0157		P	67/69/79/80		473 FWTI			4	2	7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0158		P	69/80/81		49 FWTI		2	2		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0159		P	69/70/7181/82		523 FWTI		7	2		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0146		P		54	45 FEAT	5 S	2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0160		P	71/82/83		541 FWTI		2	2		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0147	2-033	P	66/68		137 FEAT		6	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0161	2-036	P	71/83/84		558 FWTI		9	2		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0162		P	71/72/84		575 FWTI		3	2		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0163		P	72/84/85		586 FWTI		2	2		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0164		P	72/85/86		608 FWTI		2	2		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0165		P	72/73/7486/87		629 FWTI		4	3		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0166		P	74/87/88		654 FWTI		2	2		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0167		P	74/75/88/89		676 FWTI		4	3		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0168		P	75/76/89/90		700 FWTI		4	3		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0169	2-035	P	87/88		24 FSAT		6	2		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0170				85	5 FSAT	8 E	2	2		74300002	OF	DH	3/20/2006	MP	P	VTOK	DH



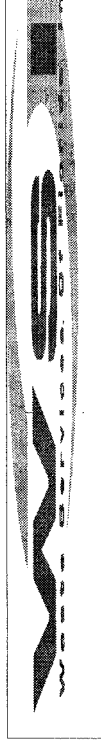
Repair Summary Log

Primary / Secondary: Primary				Series: 2														
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	
3/20/2006	2-0173		P		85	26 FSAT	8 E	2	2		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0172		P		85	19 FSAT	8 E	2	2		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0171		P		85	12FSAT	8E	2	2		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0174		P	20/77		1 FSAT		4	2		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0175		P	19/20		1 FDAT		2	2		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/20/2006	2-0176		P	6/7		1 FSAT		5	2		7402	IL	DH	3/20/2006	MP	P	VTOK	DH
3/21/2006	2-0200		P	101/103		141 FWTI		2	2		74300002	JP	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0192		P		93	4FWTI	6 N	2	2		7402	AN	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0193		P		93	7 FWTI	6	2	2		7402	AN	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0194		P		93	10 FWTI	6	2	2		7402	AN	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0195		P		93	14 FWTI	6	2	2		7402	AN	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0196	2-039	P	50/93		350 FWTI		6	2		7402	AN	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0197	2-040	P	94/95		50 FWTI		6	2		7402	AN	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0198	2-041	P	95/96		150 FWTI		6	2		7402	AN	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0199		P	98/99/100		222 FWTI		2	2		74300002	JP	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0201		P	99/101/102		182 FWTI		2	2		74300002	JP	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0202		P	101/102/103		183 FWTI		2	2		74300002	JP	DH	3/23/2006	DL	P	VTOK	DH



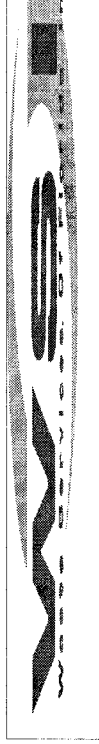
Repair Summary Log

Primary / Secondary: Primary													Series: 2					
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
3/21/2006	2-0203		P	99/100/102		223 FWTI		2	2		74300002	JP	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0204		P	103/104/105		148 FWTI		2	2		74300002	JP	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0177		P	50/93/ext		720 FSE		4	3		7402	AN	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0178		P	93/ext		723 FSE		2	2		7402	AN	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0179		P	93/94/ext		743 FSE		4	2		7402	AN	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0180		P	94/95/ext		766 FSE		4	2		7402	AN	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0181		P	95/96/ext		789 FSE		4	2		7402	AN	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0182		P	96/97/ext		811 FSE		4	2		7402	AN	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0183		P	97/98/ext		835 FSE		7	2		7402	AN	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0184		P	98/99/ext		857 FSE		4	2		7402	AN	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0185		P	99/101/ext		880 FSE		6	2		7402	AN	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0186		P	101/103/ext		903 FSE		4	2		74300002	JP	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0187		P	103/104/ext		924 FSE		4	2		74300002	JP	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0188		P	104/106/ext		947 FSE		4	2		74300002	JP	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0189		P	106/107/ext		971 FSE		4	2		74300002	JP	DH	3/23/2006	DL	P	VTOK	DH
3/21/2006	2-0191		P	108/ext		995 FSE		4	2		74300002	JP	DH	3/23/2006	DL	P	VTOK	DH
3/22/2006	2-0249	2-045	P	103/104		100 FWTI		6	2		7402	LS	DH	3/23/2006	DL	P	VTOK	DH



Repair Summary Log

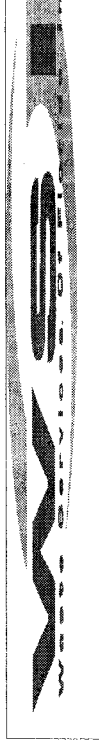
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				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
3/22/2006	2-0250	2-044	P	99/101		125 FWTI		6	2		7402	LS	DH	3/23/2006	DL	P	VTOK	DH
3/22/2006	2-0251	2-042	P	96/97		250 FWTI		6	2		7402	LS	DH	3/23/2006	DL	P	VTOK	DH
3/22/2006	2-0252	2-043	P	97/98		317 FWTI		6	2		7402	LS	DH	3/23/2006	DL	P	VTOK	DH
3/22/2006	2-0255	2-047	P	114/115		54 FNAT		6	2		7402	LS	DH	3/23/2006	DL	P	VTOK	DH
3/22/2006	2-0253	2-050	P	100/125		347 FWTI		6	2		7402	LS	DH	3/23/2006	DL	P	VTOK	DH
3/22/2006	2-0254	2-048	P	121/122		58 FNAT		6	2		7402	LS	DH	3/23/2006	DL	P	VTOK	DH
3/22/2006	2-0256		P	117/118		1 FNAT		2	2		7402	LS	DH	3/23/2006	DL	P	VTOK	DH
3/22/2006	2-0257	2-049	P	128/129		61 FNAT		6	2		7402	LS	DH	3/23/2006	DL	P	VTOK	DH
3/22/2006	2-0258	2-051	P	133/144		16 E		6	2		7402	LS	DH	3/23/2006	DL	P	VTOK	DH
3/22/2006	2-0259		P	96/142/143		490 FWTI		2	2		74300014	AN	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0260		P	95/96/143		495 FWTI		2	2		74300014	AN	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0261		P	139/140/143		3 FEAT		2	2		7402	LS	DH	3/23/2006	DL	P	VTOK	DH
3/22/2006	2-0262		P	140/141/143		27 FEAT		2	2		7402	LS	DH	3/23/2006	DL	P	VTOK	DH
3/22/2006	2-0263		P	141/142/143		51 FEAT		2	2		74300014	AN	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0264	2-046	P	98/ext		841 FSAT		6	2		7402	LS	DH	3/23/2006	DL	P	VTOK	DH
3/22/2006	2-0205		P	108/ext		1004 FSE		3	2		74300002	OF	DH	3/23/2006	DL	P	VTOK	DH
3/22/2006	2-0206		P	108/109/ext		1010 FSE		2	2		74300002	OF	DH	3/23/2006	DL	P	VTOK	DH



Repair Summary Log

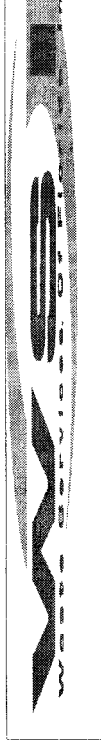
Primary / Secondary: Primary															Series: 2														
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				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action												
3/22/2006	2-0208		P	109/110ext		1032 FSE		2	2		74300002	OF	DH	3/23/2006	DL	P	VTOK	DH											
3/22/2006	2-0209		P	110/ext		1038		2	2		74300002	OF	DH	3/23/2006	DL	P	VTOK	DH											
3/22/2006	2-0210		P	110/ext		1048 FSE		2	2		74300002	OF	DH	3/23/2006	DL	P	VTOK	DH											
3/22/2006	2-0211		P	109/110/111		6 FWTI		2	2		74300002	OE	DH	3/23/2006	DL	P	VTOK	DH											
3/22/2006	2-0212		P	109/111/112		41 FNAT		2	2		74300002	OF	DH	3/23/2006	DL	P	VTOK	DH											
3/22/2006	2-0213		P	108/109/112		35 FWTI		2	2		74300002	OF	DH	3/23/2006	DL	P	VTOK	DH											
3/22/2006	2-0214		P	108/112/113		57 FNAT		2	2		74300002	OF	DH	3/23/2006	DL	P	VTOK	DH											
3/22/2006	2-0215		P	107/108/113		44 FWTI		5	5		74300002	OF	DH	3/22/2006	CC	P	VTOK	DH											
3/22/2006	2-0216		P	107/113/114		72 FNAT		2	2		74300002	OF	DH	3/22/2006	CC	P	VTOK	DH											
3/22/2006	2-0217		C	106/107/114/115		72 FNAT		10	2		74300002	OF	DH	3/22/2006	CC	P	VTOK	DH											
3/22/2006	2-0218		P	106/115/116		72 FNAT		2	2		74300002	OF	DH	3/22/2006	CC	P	VTOK	DH											
3/22/2006	2-0219		P	106/116/117		71 FNAT		2	2		74300002	OF	DH	3/22/2006	CC	P	VTOK	DH											
3/22/2006	2-0220		P	104/106/117		120 FWTI		2	2		74300002	OF	DH	3/22/2006	CC	P	VTOK	DH											
3/22/2006	2-0222		P	104/105/118		192 FWTI		2	2		74300002	OF	DH	3/22/2006	CC	P	VTOK	DH											
3/22/2006	2-0223		P	105/118/119		72 FNAT		2	2		74300002	OF	DH	3/22/2006	CC	P	VTOK	DH											
3/22/2006	2-0224		P	103/105/119		170 FWTI		9	2		74300002	OF	DH	3/22/2006	CC	P	VTOK	DH											
3/22/2006	2-0225		P	103/119/120		72 FNAT		2	2		74300002	OF	DH	3/22/2006	CC	P	VTOK	DH											

Wednesday, April 12, 2006



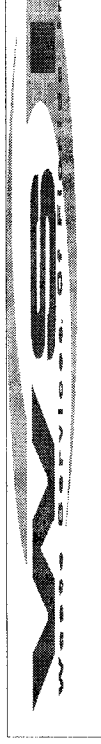
Repair Summary Log

Primary / Secondary: Primary				Series: 2													
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				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action
3/22/2006	2-0226		P	103/120/121		72 FNAT		2	2		74300002	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0221		P	104/117/118		72 FNAT		2	2		74300002	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0227		P	130/131/141		34 S		2	2		74300014	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0228		P	131/140/141		28 E		2	2		74300014	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0229		P	131/132/140		45 S		2	2		74300014	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0230		P	132/139/140		50 E		2	2		74300014	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0231		P	132/133/139		56 S		2	2		74300014	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0232		P	130/141/142		5 E		2	2		74300014	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0233		P	102/121/122		72 FNAT		6	2		74300002	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0234		P	102/122		279 FWTT		2	2		74300002	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0235		P	102/122/123		72 FNAT		2	2		74300002	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0236		P	102/123/124		72 FNAT		2	2		74300014	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0237		P	100/102/124		322 FWTT		2	2		74300014	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0238		P	100/124/125		72 FNAT		2	2		74300014	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0239		P	100/125/126		72 FNAT		2	2		74300014	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0240		P	98/100/126		312 FWTT		3	2		74300014	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0241		P	98/126/127		71 FNAT		2	2		74300014	DH	3/22/2006	CC	P	VTOK	DH



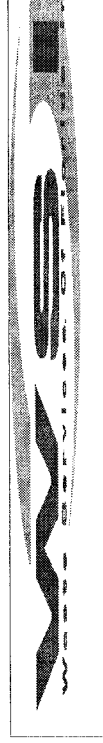
Repair Summary Log

Primary / Secondary: Primary				Series: 2														
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder ID.		Non-Destructive Testing						
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID	Oper ID	QA ID	Date	Oper ID	Result (p/f)	Action	
3/22/2006	2-0242		P	98/127/128		72 FNAT		2	2		74300014	AN	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0243		P	97/98/128/129		70 FNAT		2	2		74300014	AN	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0244		P	98/129/130		435 FWTI		2	2		74300014	AN	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0245		P	96/97/130/142		465 FWTI		7	2		74300014	AN	DH	3/22/2006	CC	P	VTOK	DH
3/22/2006	2-0246		P	129/130/131		48 FNAT		2	2		74300014	AN	DH	3/23/2006	DL	P	VTOK	DH
3/22/2006	2-0247		P	129/131/132		25 FNAT		2	2		74300014	AN	DH	3/23/2006	DL	P	VTOK	DH
3/22/2006	2-0248		P	129/132/133		3 FNAT		2	2		74300014	AN	DH	3/23/2006	DL	P	VTOK	DH
3/24/2006	2-0266		P	66/68		1 FEAT		2	2		7439	IL	DH	3/24/2006	CC	P	VTOK	DH
3/24/2006	2-0267		P	64/66		1 FEAT		3	2		7439	IL	DH	3/24/2006	CC	P	VTOK	DH
3/24/2006	2-0268		P	58/59		1 FEAT		3	2		74300011	LS	DH	3/24/2006	CC	P	VTOK	DH
3/24/2006	2-0269		P	57/58		1 FEAT		3	2		74300011	LS	DH	3/24/2006	CC	P	VTOK	DH
3/27/2006	2-0270		P	51/145		1 FEAT		3	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/27/2006	2-0271		C		51	58 FEAT	0-22.5	22.5	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/27/2006	2-0273		P	51/145		90 FEAT		2	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/27/2006	2-0274		P	51/145		100 FEAT		2	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/27/2006	2-0275	2-052	P	51/145		152 FEAT		6	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH
3/27/2006	2-0276		P	145/146/147		168 FEAT		2	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH



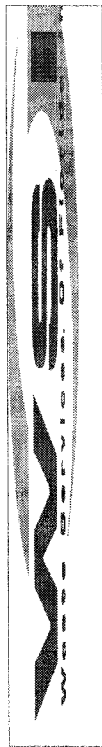
Repair Summary Log

Primary / Secondary:				Primary		Series: 2												
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
3/27/2006	2-0277		P	146/147/148		169 FEAT		2	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH
3/27/2006	2-0278		P	148/149/150		159 FEAT		2	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/27/2006	2-0279		P	149/150/151		161 FEAT		2	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/27/2006	2-0282		P	152/153/154		147 FEAT		5	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/27/2006	2-0280		P	151/152		45 FEAT		8	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/27/2006	2-0281		P	151/152/153		145 FEAT		2	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/27/2006	2-0283		P	155/156/157		117 FEAT		2	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/27/2006	2-0284		P	156/157/158		120 FEAT		2	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/27/2006	2-0285		P	158/159/160		115 FEAT		2	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/27/2006	2-0286		P	159/160/161		114 FEAT		2	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/27/2006	2-0287		P	162/163/164		88 FEAT		2	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/27/2006	2-0288		P	162/163		22 FEAT		2	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH
3/27/2006	2-0289		P	163/164/165		89 FEAT		2	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/27/2006	2-0290		C	95-96/-169-143-142		58-797 FS		35	3		7434	JP	DH					
3/27/2006	2-0291		P	50/93/167		404 FWTI		5	2		7434	JP	DH					
3/27/2006	2-0292		P	49/50/166		404 FWTI		6	2		7434	JP	DH					
3/27/2006	2-0293		P	46/47/162/163		20-628 FS		8	2		74300011	FB	DH					



Repair Summary Log

Primary / Secondary:				Primary		Series: 2												
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
3/27/2006	2-0294		P	32/33/51/145		400 FWTI		8	4		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH
3/27/2006	2-0207		P	109/ext		1017 FSE		2	2		74300002	OF	DH	3/23/2006	DL	P	VTOK	DH
3/28/2006	2-0295		P		35	366 FWTI	8 N	2	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0296		P		38	321 FWTI	2 N	2	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0297		P		38	318 FWTI	3 N	2	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0298		P		38	318 FWTI	10 N	2	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0299	2-053	P	148/149		20 FEAT		6	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0300	2-054	P	151/152		114 FEAT		6	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0301	2-055	P	155/157		83 FEAT		6	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0302	2-056	P	160/161		124 FEAT		6	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0303	2-057	P	165/166		86 FEAT		6	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0304	2-058	P	168/169		62 FEAT		6	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0305		P	33/34/145/147		211 FEAT		3	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0306		P	34/35/147/148		203 FEAT		5	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0307		P		147	186 FEAT	7 S	2	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0308		P	35/36/148		404 FWTI		2	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0309		P	36/148/150		196 FEAT		2	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH



Repair Summary Log

Primary / Secondary: Primary														Series: 2				
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	
3/28/2006	2-0310		P	36/37/150		404 FEAT		2	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0311		P	37/150/151		188 FEAT		2	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0312		P	37/38/151		404 FWTI		2	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0313		P	38/151/153		179 FEAT		2	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0314		P	38/39/153		404 FWTI		2	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0315		P	39/153/154		171 FEAT		2	2		74300011	FB	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0316		P	39/40/154		404 FWTI		2	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0317		P	40/154/155		163 FEAT		2	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0318		P	40/41/155		403 FWTI		2	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0324		P	45/46/161		404 FWTI		2	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0319		P	41/42/155/156		156 FEAT		7	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0320		P	42/43/156/158		147 FEAT		5	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0321		P	43/44/158/160		141 FEAT		3	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0322	2-059	P	44/160		562 FSE		6	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0323		P	44/45/160/161		131 FEAT		4	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0325		P	46/161/162		124 FEAT		2	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0326		P	47/48/164		404 FWTI		2	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH



Repair Summary Log

Primary / Secondary: Primary				Series: 2														
Repair Date	Repair ID	DS No	Repair Type	Location				Size			Welder I.D.		QA ID	Non-Destructive Testing				
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID	Oper ID		Date	Oper ID	Result (p/f)	Action	QA ID
3/28/2006	2-0327		P	48/164/164		108 FEAT		2	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0328		P	48/49/165		404 FWTI		3	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0329		P	49/165/166		100 FEAT		3	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0330		P	50/166/167		91 FEAT		2	2		74300011	LS	DH	3/28/2006	MP	P	VTOK	DH
3/28/2006	2-0331		P	93/167/168		82 FEAT		3	2		74300011	FB	DH	3/28/2006	MP			
3/28/2006	2-0332		P	93/94/168		404 FWTI		2	2		74300011	FB	DH					
3/28/2006	2-0333		P	94/95/168/169		74 FEAT		6	2		74300011	FB	DH					



Destructive Test Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way, St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

TaskNo: 01

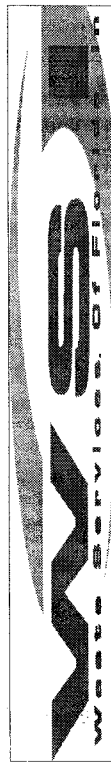
Test Reqs: Fusion: Peel Inside: 78 Peel Outside: 78 Shear: 120
 Extrusion: Peel: 70 Shear: 108

MaterialType: 1

Series: 2

Primary / Secondary: Primary

Sample Data					Field Data					Laboratory Data					Re test 1	Re test 2	QA ID			
DS No	Weld Type	Track Type	Location		Mach ID	Oper ID	Peel		Shear	Unit ppi/psi	Result (P/F)	Date Samp	QA ID	Date of Results	Average Peel		Unit ppi/psi	Result (P/F)		
			Seam	Dist. (ft.)			Inside	Outside							Inside	Outside				
2-001	f	d	16/17	24' FSA175200023		JP	106	110	196	psi	P	3/7/2006	DH	3/8/2006	115	110	175	p		RH
2-002	f	d	18/21	46' FWT5200023		JP	129	129	193	psi	P	3/7/2006	DH	3/8/2006	111	136	172	p		RH
2-004	f	d	23/24	50' FWT17537		OF	100	99	157	psi	P	3/7/2006	DH	3/8/2006	114	122	174	p		RH
2-005	f	d	24/25	50' FWT5200023		JP	112	109	161	psi	P	3/7/2006	DH	3/8/2006	119	114	175	p		RH
2-006	f	d	25/26	52' FWT5200022		BR	108	110	164	psi	P	3/7/2006	DH	3/8/2006	116	121	176	p		RH
2-018	E	S	33/ext	328 N 74300002		JP	132	N/A	187	PSI	P	3/9/2006	DH	3/10/2006	136	N/A	161	P		RH
2-017	F	D	39/40	350 E 75200022		BR	116	110	170	PSI	P	3/9/2006	DH	3/10/2006	118	115	171	P		RH
2-016	F	D	38/39	150 E 7537		OF	106	97	179	PSI	P	3/9/2006	DH	3/10/2006	120	111	174	P		RH
2-015	F	D	37/38	52 E 75200022		BR	101	102	131	PSI	P	3/9/2006	DH	3/10/2006	121	120	132	P		RH
2-014	F	D	35/36	350 E 75200016		DL	110	108	185	PSI	P	3/9/2006	DH	3/10/2006	128	131	170	P		RH
2-013	F	D	34/35	250 E 7537		OF	113	107	175	PSI	P	3/9/2006	DH	3/10/2006	117	129	177	P		RH
2-012	F	D	33/34	150 E 75200022		BR	117	122	185	PSI	P	3/9/2006	DH	3/10/2006	122	126	179	P		RH
2-011	F	D	32/33	50 E 75200023		JP	106	108	159	PSI	P	3/9/2006	DH	3/10/2006	115	118	173	P		RH
2-010	F	D	30/31	350 E 75200022		BR	110	110	175	PSI	P	3/9/2006	DH	3/10/2006	140	114	159	P		RH



Project: J.E.D. Solid Waste Landfill
Location: 1501 Omni Way St Cloud Florida
Description: Cell 2 Construction

ProjNo: FO0852 TaskNo: 01

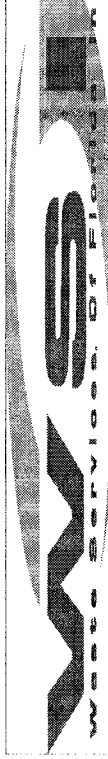
ProjNo: F00852

TaskNo: 01

Test Reqs:	Fusion:	Peel Inside:	78	Peel Outside:	78	Shear:	120
	Extrusion:	Peel:	70	Shear:	108		

MaterialType: 1

Sample Data						Field Data				Laboratory Data						Re test I	Re test 2	Q4 ID			
DS No	Weld Type	Track Type	Location		Mach ID	Oper ID	Peel		Shear	Unit psi/psi	Result (P/F)	Date Samp	QA ID	Date of Results	Average Peel		Avg. Shear	Unit ppi/psi	Result (P/F)		
			Seam	Dist. (ft.)			Inside	Outside							Inside	Outside					
2-009	F	D	29/30	250 E	7537	OF	117	109	151	PSI	P	3/9/2006	DH	3/10/2006	118	114	170	psi	P		RH
2-008	F	D	28/29	150 E	75200023	JP	102	102	158	PSI	P	3/9/2006	DH	3/10/2006	129	118	179	psi	P		RH
2-019	F	D	40/41	350 E	75200023	JP	109	107	165	psi	P	3/16/2006	DH	3/17/2006	118	115	177	psi	P		RH
2-020	F	D	42/43	48 E	75200022	BR	103	111	152	PSI	P	3/16/2006	DH	3/17/2006	115	114	173	psi	P		RH
2-021	F	D	43/44	150 E	7539	DL	113	116	162	PSI	P	3/16/2006	DH	3/17/2006	123	116	171	psi	P		RH
2-022	F	D	44/45	250 E	75200023	JP	116	117	157	PSI	P	3/16/2006	DH	3/17/2006	125	117	175	psi	P		RH
2-023	F	D	45/46	350 E	7537	OF	110	107	161	PSI	P	3/16/2006	DH	3/17/2006	118	112	174	psi	P		RH
2-024	F	D	47/48	50 E	7539	DL	119	108	153	PSI	P	3/16/2006	DH	3/17/2006	122	127	173	psi	P		RH
2-025	F	D	48/49	150 E	7539	DL	107	106	152	PSI	P	3/16/2006	DH	3/17/2006	125	111	173	psi	P		RH
2-026	F	D	49/50	250 E	75200022	BR	117	113	148	PSI	P	3/16/2006	DH	3/17/2006	134	119	169	psi	P		RH
2-027	E	S	48/ext	664 N	74300002	JP	111	N/A	135	PSI	P	3/16/2006	DH	3/17/2006	126	N/A	158	psi	P		RH
2-038	F	D	19/21	377 FWTI	7539	DL	121	112	138	PSI	P	3/20/2006	DH	3/21/2006	118	118	173	psi	P		RH
2-037	F	D	23/62	62 N	7537	OF	130	133	156	PSI	P	3/20/2006	DH	3/21/2006	116	115	166	psi	P		RH
2-035	F	D	87/88	21 N	75200022	BR	95	95	156	PSI	P	3/20/2006	DH	3/21/2006	120	110	176	psi	P		RH



Destructive Test Log

Project: J.F.D. Solid Waste Landfill
 Location: 1501 Omni Way St. Cloud Florida
 Description: Cell 2 Construction

ProjNo: FQ0852

TaskNo: 01

Test Reqs: Fusion: Peel Inside: 78 Peel Outside: 78 Shear: 120
 Extrusion: Peel: 70 Shear: 108

MaterialType: 1

Series: 2

Sample Data						Field Data				Laboratory Data						Re test 1	Re test 2	Q4 ID		
DS No	Weld Type	Track Type	Location		Mach ID	Oper ID	Peel		Shear	Unit ppi/psi	Result (P/F)	Date Samp	QA ID	Date of Results	Average Peel		Unit ppi/psi	Result (P/F)		
			Seam	Dist. (ft.)			Inside	Outside							Inside	Outside				
2-036	F	D	71/83	558 E	75200023	JP	126	131	165	PSI	P	3/20/2006	DH	3/21/2006	116	112	172	P		RH
2-033	F	D	66/68	137 W	7537	OF	104	105	158	PSI	P	3/20/2006	DH	3/21/2006	125	119	172	P		RH
2-034	F	D	70/71	100 W	75200022	BR	104	106	153	PSI	P	3/20/2006	DH	3/21/2006	137	117	179	P		RH
2-032	F	D	62/64	240 W	7537	OF	112	108	160	PSI	P	3/20/2006	DH	3/21/2006	123	123	178	P		RH
2-030	F	D	58/59	100 W	75200023	JP	108	107	153	PSI	P	3/20/2006	DH	3/21/2006	132	116	180	P		RH
2-031	F	D	61/62	64 W	7537	OF	103	105	158	PSI	P	3/20/2006	DH	3/21/2006	124	118	178	P		RH
2-029	F	D	55/56	130 W	7539	DL	111	108	155	PSI	P	3/20/2006	DH	3/21/2006	125	121	169	P		RH
2-028	F	D	53/54	103 W	7537	OF	106	108	138	PSI	P	3/20/2006	DH	3/21/2006	120	118	169	P		RH
2-039	F	D	50/93	850 FWTI	7537	OF	113	110	162	psi	P	3/22/2006	DH	3/24/2006	124	123	174	P		RH
2-040	F	D	94/95	50 FWTI	7539	DL	114	111	163	psi	P	3/22/2006	DH	3/24/2006	130	123	183	P		RH
2-041	F	D	95/96	150 FWTI	5200022	BR	107	101	170	psi	P	3/22/2006	DH	3/24/2006	117	116	179	P		RH
2-042	F	D	96/97	250 FWTI	5200023	JP	119	115	175	psi	P	3/22/2006	DH	3/24/2006	118	110	179	P		RH
2-043	F	D	97/98	317 FWTI	7537	OF	128	123	175	psi	P	3/22/2006	DH	3/24/2006	117	116	175	P		RH
2-044	F	D	99/100	125 FWTI	5200022	BR	129	125	174	psi	P	3/22/2006	DH	3/24/2006	132	128	180	P		RH

Wednesday, April 12, 2006

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Destructive Test Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852 TaskNo: 01

Test Reqs: Fusion: Peel Inside: 78 Peel Outside: 78 Shear: 120
 Extrusion: Peel: 70 Shear: 108

MaterialType: 1

Series: 2

Primary / Secondary: Primary

Sample Data						Field Data					Laboratory Data					Re test 1	Re test 2	QA ID		
DS No	Weld Type	Track Type	Location		Mach ID	Oper ID	Peel		Shear	Unit ppi/psi	Result (P/F)	Date Samp	QA ID	Average Peel		Avg. Shear	Unit ppi/psi	Result (P/F)		
			Seam	Dist. (ft.)			Inside	Outside						Inside	Outside					
2-045	F	D	103/104	100 FWT	7537	OF	118	116	166	psi	P	3/22/2006	DH	115	114	179	psi	P		RH
2-046	E	S	98/ext	841 FSE	7402	AN	135		180	psi	P	3/22/2006	DH	168	N/A	174	psi	P		RH
2-047	F	D	114/115	54 FNAT	7537	OF	122	120	168	psi	P	3/22/2006	DH	122	115	174	psi	P		RH
2-048	F	D	121/122	58 FNAT	7537	OF	113	116	168	psi	P	3/22/2006	RH	113	121	168	psi	P		RH
2-049	F	D	128/129	61 FNAT	7537	OF	120	119	168	psi	P	3/22/2006	DH	125	129	169	psi	P		RH
2-050	F	D	100/125	347 FWT	5200022	BR	137	141	178	psi	P	3/22/2006	DH	127	145	182	psi	P		RH
2-051	E	S	133/144	13 S	7402	LS	116		160	psi	P	3/22/2006	DH	137	N/A	162	psi	P		RH
2-052	F	D	51/145	153 FEAT	5200023	JP	116	117	173	psi	P	3/29/2006	DH				psi	P		DH
2-053	F	D	148/149	20 FEAT	5200022	BR	111	109	153	psi	P	3/29/2006	DH				psi	P		DH
2-054	F	D	151/152	114 FEAT	7539	DL	112	110	157	psi	P	3/29/2006	DH				psi	P		DH
2-055	F	D	155/157	83 FEAT	7539	DL	110	109	160	psi	P	3/29/2006	DH				psi	P		DH
2-056	F	D	160/161	124 FEAT	5200022	BR	105	101	167	psi	P	3/29/2006	DH				psi	P		DH
2-057	F	D	165/166	86 FEAT	5200022	BR	103	104	155	psi	P	3/29/2006	DH				psi	P		DH
2-058	F	D	168/169	62 FEAT	7539	DL	113	119	155	psi	P	3/29/2006	DH				psi	P		DH



Destructive Test Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

TaskNo: 01

Test Reqs: Fusion: Peel Inside: 78 Peel Outside: 78 Shear: 120
 Extrusion: Peel: 70 Shear: 108

MaterialType: 1

Series: 2

Primary / Secondary: Primary

Sample Data						Field Data						Laboratory Data						Re test 1	Re test 2	QA ID
DS No	Weld Type	Track Type	Location		Mach ID	Oper ID	Peel		Shear	Unit ppi/psi	Result (P/F)	Date Samp	QA ID	Average Peel		Avg. Shear	Unit ppi/psi	Result (P/F)		
			Seam	Dist. (ft.)			Inside	Outside						Inside	Outside					
2-059	F	D	44/160	562 fsat	75200022	BR	139	134	162	psi	P	3/29/2006	DH				psi	P		DH
2-003	F	D	22/23	50' FWTS	7537	OF	108	116	168	psi	P	3/2/2009	DH		114	114	169	psi	P	RH
2-007	F	D	27/28	50' FWTS	75200022	BR	107	112	168	psi	P	3/2/2009	DH		111	114	170	psi	P	RH

Comments:



Panel Placement Log

Project: <u>J.E.D. Solid Waste Landfill</u>		TaskNo: <u>01</u>
Location: <u>1501 Omni Way St Cloud Florida</u>	ProjNo: <u>EQ0852</u>	
Description: <u>Cell 2 Construction</u>		

Primary / Secondary: Secondary			Series: 1		Material Type: gml		
Panel	Batch-Roll	Date	Time	Placement/Location/Comments	Width (ft.)	Length (ft.)	QA ID
1	2684	2/17/2006	9:40	SW CORNER	22.5	29	RH
2	2684	2/17/2006	9:43	SW CORNER	22.5	11	RH
3	2684	2/17/2006	9:45	SW CORNER	22.5	8	RH
4	2684	2/17/2006	9:49	SW ICB	22.5	29	RH
5	2684	2/17/2006	9:51	S ICB	22.5	36	RH
6	2684	2/17/2006	9:58	SW ICB	22.5	36	RH
7	2684	2/17/2006	10:03	S ICB	22.5	36	RH
8	2684	2/17/2006	10:06	S ICB	22.5	36	RH
9	2684	2/17/2006	10:10	S ICB	22.5	35	RH
10	2684	2/17/2006	10:12	S ICB	22.5	35	RH
11	3105	2/17/2006	10:15	S ICB	22.5	34	RH
12	3105	2/17/2006	10:17	S ICB	22.5	34	RH
13	3105	2/17/2006	10:22	S ICB	22.5	33	RH
14	3105	2/17/2006	10:31	S ICB	22.5	33	RH
15	3105	2/17/2006	10:35	S ICB	22.5	33	RH
16	3105	2/17/2006	10:37	S ICB	22.5	32	RH
17	3105	2/17/2006	10:40	S ICB	22.5	32	RH
18	3105	2/17/2006	10:42	S ICB	22.5	32	RH
19	3105	2/17/2006	10:44	S ICB	22.5	32	RH
20	3105	2/17/2006	10:47	S ICB	22.5	31	RH
21	3339	2/17/2006	13:35	S FLOOR / W BERM	22.5	406	RH
22	3347	2/17/2006	13:55	S FLOOR / W BERM	22.5	405	RH
23	3231	2/17/2006	14:23	S FLOOR / W BERM	22.5	407	RH
24	3349	2/17/2006	15:05	S FLOOR / W BERM	22.5	406	RH
25	3348	2/18/2006	9:10	S FLOOR / W BERM	22.5	407	RH
26	3344	2/18/2006	9:26	S FLOOR / W BERM	22.5	407	RH
27	3117	2/18/2006	9:40	S FLOOR / W BERM	22.5	406	RH
28	3336	2/18/2006	10:22	S FLOOR / W BERM	22.5	406	RH
29	2703	2/18/2006	11:16	S FLOOR / W BERM	22.5	404	RH
30	3232	2/23/2006	8:20	S FLOOR / W BERM	22.5	405	RH



Panel Placement Log

Project: <u>J.E.D. Solid Waste Landfill</u> Location: <u>1501 Omni Way St Cloud Florida</u> Description: <u>Cell 2 Construction</u>	 Proj No: <u>EQ0852</u>	Task No: <u>01</u>
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Primary / Secondary: Secondary			Series: 1		Material Type: gml		
Panel	Batch-Roll	Date	Time	Placement/Location/Comments	Width (ft.)	Length (ft.)	QA ID
31	3235	2/23/2006	8:25	S FLOOR / W BERM	22.5	405	RH
32	3234	2/23/2006	8:35	S FLOOR / W BERM	22.5	406	RH
33	3343	2/23/2006	8:44	S FLOOR / W BERM	22.5	404	RH
34	3221	2/23/2006	9:44	S FLOOR / W BERM	22.5	405	RH
35	3342	2/23/2005	10:05	S FLOOR / W BERM	22.5	404	RH
36	3337	2/23/2006	10:14	S FLOOR / W BERM	22.5	404	RH
37	3229	2/23/2006	11:23	S FLOOR / W BERM	22.5	405	RH
38	3224	2/23/2006	11:29	S FLOOR / W BERM	22.5	406	RH
39	3226	2/23/2006	13:36	S FLOOR / W BERM	22.5	406	RH
40	3227	2/23/2006	13:50	S FLOOR / W BERM	22.5	406	RH
41	2796	2/23/2006	14:10	S FLOOR / W BERM	22.5	405	RH
42	3104	2/24/2006	7:12	S FLOOR / W BERM	22.5	404	RH
43	2700	2/24/2006	7:37	S FLOOR / W BERM	22.5	406	RH
44	2441	2/24/2006	7:50	S FLOOR / W BERM	22.5	405	RH
45	2436	2/24/2006	8:28	S FLOOR / W BERM	22.5	405	RH
46	2439	2/24/2006	9:10	S FLOOR / W BERM	22.5	405	RH
47	3551	2/27/2006	8:40	N FLOOR/ W BERM	22.5	405	RH
48	2335	2/27/2006	8:50	N FLOOR/ W BERM	22.5	405	RH
49	3341	2/27/2006	9:04	N FLOOR/ W BERM	22.5	405	RH
50	2440	2/27/2006	9:20	N FLOOR/ W BERM	22.5	405	RH
51	2567	2/27/2006	10:05	N FLOOR/ W BERM	22.5	405	RH
52	2672	2/27/2006	10:18	N FLOOR/ W BERM	22.5	405	RH
53	3230	2/27/2006	12:53	N FLOOR/W BERM	22.5	404	RH
54	3340	2/27/2006	13:06	N FLOOR/W BERM	22.5	380	RH
55	3240	2/27/2006	13:20	N FLOOR/W BERM	22.5	45	RH
56	2670	2/27/2006	13:30	N FLOOR/W BERM	22.5	288	RH
57	2670	2/27/2006	13:40	N FLOOR/W BERM	22.5	113	RH
58	3225	2/27/2006	13:55	N FLOOR/W BERM	22.5	175	RH
59	3225	2/27/2006	14:14	N FLOOR/W BERM	22.5	188	RH
60	2675	2/27/2006	14:23	N FLOOR/W BERM	22.5	82	RH
61	2683	3/4/2006	7:58	NW CORNER	22.5	255	RH



Panel Placement Log

Project: <u>J.E.D. Solid Waste Landfill</u> Location: <u>1501 Omni Way St Cloud Florida</u> Description: <u>Cell 2 Construction</u>	TaskNo: <u>01</u>
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Primary / Secondary: Secondary			Series: 1		Material Type: gml		
Panel	Batch-Roll	Date	Time	Placement/Location/Comments	Width (ft.)	Length (ft.)	QA ID
62	2683	3/4/2006	8:01	NW CORNER	22.5	163	RH
63	2554	3/4/2006	8:04	NW CORNER	22.5	47	RH
64	2554	3/4/2006	8:08	NW CORNER	22.5	163	RH
65	2554	3/4/2006	8:12	NW CORNER	22.5	114	RH
66	2554	3/4/2006	8:15	NW CORNER	22.5	65	RH
67	2554	3/4/2006	8:18	NW CORNER	22.5	36	RH
68	2561	3/4/2006	8:23	NW CORNER	22.5	23	RH
69	2561	3/4/2006	8:25	NW CORNER	7	16	RH
70	2561	3/4/2006	8:27	NW CORNER	22.5	30	RH
71	2561	3/4/2006	8:30	NW CORNER	22.5	24	RH
72	2561	3/4/2006	8:35	NORTH SLOPE	22.5	75	RH
73	2561	3/4/2006	8:38	NORTH SLOPE	22.5	75	RH
74	2561	3/4/2006	8:42	NORTH SLOPE	22.5	75	RH
75	2444	3/4/2006	8:45	NORTH SLOPE	22.5	75	RH
76	2444	3/4/2006	8:48	NORTH SLOPE	21	75	RH
77	2444	3/4/2006	8:51	NORTH SLOPE	21	75	RH
78	2444	3/4/2006	8:54	NORTH SLOPE	22.5	75	RH
79	2444	3/4/2006	8:59	NORTH SLOPE	22.5	75	RH
80	2565	3/4/2006	9:04	NORTH SLOPE	22.5	75	RH
81	2565	3/4/2006	9:07	NORTH SLOPE	22.5	75	RH
82	2565	3/4/2006	9:10	NORTH SLOPE	22.5	75	RH
83	2565	3/4/2006	9:13	NORTH SLOPE	22.5	75	RH
84	2565	3/4/2006	9:16	NORTH SLOPE	22.5	67	RH
85	3222	3/4/2006	9:19	NORTH FLOOR	22.5	6	RH
86	3222	3/4/2006	9:22	NORTH SLOPE	22.5	75	RH
87	3222	3/4/2006	9:26	NORTH SLOPE	22.5	75	RH
88	3222	3/4/2006	9:30	NORTH SLOPE	22.5	75	RH
89	3222	3/4/2006	9:33	NORTH SLOPE	22.5	75	RH
90	2794	3/4/2006	12:34	NE SLOPE	9	56	RH
91	2794	3/4/2006	12:36	SUMP	22	28	RH
92	2566	3/4/2006	12:38	SUMP	22	40	RH



Panel Placement Log

Project: <u>J.E.D. Solid Waste Landfill</u> Location: <u>1501 Omni Way St Cloud Florida</u> Description: <u>Cell 2 Construction</u>	 Proj No: <u>EQ0852</u> Task No: <u>01</u>
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Primary / Secondary: Secondary			Series: 1		Material Type: gml		
Panel	Batch-Roll	Date	Time	Placement/Location/Comments	Width (ft.)	Length (ft.)	QA ID
93	2566	3/4/2006	12:42	SUMP	14	46	RH
94	2566	3/4/2006	12:51	SUMP	13	34	RH
95	2566	3/4/2006	12:54	SUMP	17	20	RH
96	2566	3/4/2006	12:57	SUMP	19	20	RH
97	2566	3/4/2006	13:10	SUMP	19	25	RH
98	2566	3/4/2006	13:15	SUMP	14	24	RH
99	2794	3/4/2006	13:17	SUMP	17	28	127
100	2566	3/4/2006	13:25	SUMP	18	32	RH
101	2566	3/4/2006	13:33	SUMP	22	36	RH
102	2566	3/4/2006	13:40	SUMP	22	30	RH
103	2566	3/4/2006	13:50	NE SLOPE	12	56	RH
104	2566	3/6/2006	7:46	SUMP NW FRONT	10	41	RH
105	2794	3/6/2006	7:52	SUMP NW TOE FRONT	9	13	RH
106	2562	3/9/2006	8:37	FRONT SUMP FLOOR	22.5	38	RH
107	2562	3/9/2006	8:30	FRONT SUMP FLOOR	15	31	RH
108	2562	3/9/2006	10:25	E SLOPE	22.5	63	RH
109	2562	3/9/2006	8:50	E SLOPE	22.5	69	RH
110	2562	3/9/2006	8:15	E SLOPE	22.5	85	RH
111	2795	3/9/2006	8:20	E SLOPE	22.5	91	RH
112	2795	3/9/2006	8:24	E SLOPE	22.5	102	RH
113	2795	3/9/2006	8:30	E SLOPE	22.5	110	RH
114	2795	3/9/2006	8:40	E SLOPE	22.5	68	RH
115	2673	3/9/2006	8:52	E SLOPE	22.5	49	RH
116	2673	3/9/2006	8:55	E SLOPE	22.5	117	RH
117	2449	3/9/2006	12:30	E SLOPE	5	125	RH
118	2673	3/9/2006	10:30	E SLOPE	22.5	213	RH
119	2454	3/9/2006	10:48	E SLOPE	22.5	211	RH
120	2451	3/9/2006	11:00	E SLOPE	22.5	178	RH
121	2553	3/9/2006	11:04	E SLOPE	22.5	33	RH
122	2553	3/9/2006	11:12	E SLOPE	22.5	194	RH
123	2553	3/9/2006	11:17	E SLOPE	22.5	150	RH



Panel Placement Log

Project: <u>J.E.D. Solid Waste Landfill</u> Location: <u>1501 Omni Way St Cloud Florida</u> Description: <u>Cell 2 Construction</u>	 Proj No: <u>EQ0852</u>	Task No: <u>01</u>
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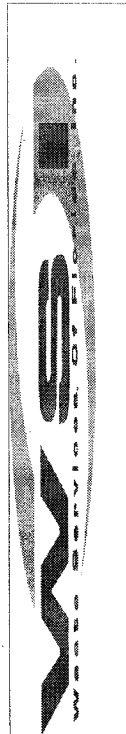
Primary / Secondary: Secondary			Series: 1		Material Type: gml		
Panel	Batch-Roll	Date	Time	Placement/Location/Comments	Width (ft.)	Length (ft.)	QA ID
124	2450	3/9/2006	11:20	SW ICB	22.5	30	RH
125	2450	3/9/2006	11:32	E SLOPE	22.5	180	RH
126	2450	3/9/2006	11:45	E SLOPE	22.5	174	RH
127	3338	3/9/2006	10:56	E SLOPE	22.5	165	RH
128	3338	3/9/2006	11:00	E SLOPE	22.5	157	RH
129	3338	3/9/2006	11:00	E SLOPE	22.5	59	RH
130	2552	3/9/2006	11:30	E SLOPE	22.5	94	RH
131	2552	3/9/2006	11:35	E SLOPE	22.5	142	RH
132	2552	3/9/2006	12:20	E SLOPE	22.5	137	RH
133	2449	3/11/2006	7:30	E BERM	22.5	236	RH
134	2449	3/11/2006	7:33	E BERM	22.5	27	RH
135	3453	3/11/2006	7:40	E BERM	22.5	209	RH
136	3453	3/11/2006	7:44	E BERM	22.5	189	RH
137	2553	3/11/2006	7:48	E BERM	22.5	41	RH
138	2555	3/11/2006	7:50	E BERM	22.5	255	RH
139	2555	3/11/2006	7:50	E BERM	22.5	84	RH
140	3352	3/11/2006	7:52	E BERM	22.5	178	RH
141	3352	3/11/2006	8:00	E BERM	22.5	211	RH
142	2556	3/11/2006	8:10	E BERM	22.5	62	RH
143	2566	3/11/2006	9:02	E BERM	22.5	276	RH
144	2677	3/11/2006	9:00	E BERM	22.5	291	RH
145	2677	3/11/2006	9:05	E BERM	22.5	110	RH
146	2559	3/11/2006	9:09	E BERM	22.5	183	RH
147	2559	3/11/2006	10:00	E BERM	22.5	199	RH
148	3223	3/11/2006	10:03	E BERM	22.5	94	RH
149	3223	3/11/2006	10:07	E BERM	22.5	240	RH
150	3350	3/11/2006	10:10	E BERM	22.5	216	RH
151	3345	3/11/2006	10:15	E BERM	14	49	RH
152	3350	3/11/2006	10:13	E BERM	22.5	143	RH
153	3345	3/11/2006	9:00	E BERM	22.5	132	RH
154	2791	3/13/2006	9:06	E BERM	22.5	71	RH



Panel Placement Log

Project: <u>J.E.D. Solid Waste Landfill</u> Location: <u>1501 Omni Way St Cloud Florida</u> Description: <u>Cell 2 Construction</u>	 Proj No: <u>EQ0852</u>	Task No: <u>01</u>
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Primary / Secondary: Secondary			Series: 1		Material Type: gml		
Panel	Batch-Roll	Date	Time	Placement/Location/Comments	Width (ft.)	Length (ft.)	QA ID
155	2791	3/13/2006	8:30	E BERM	22.5	42	RH
156	2791	3/13/2006	8:33	SECORNER	10	32	RH
157	2791	3/13/2006	8:36	SE CORNER	15	30	RH
158	2791	3/13/2006	8:37	SE CORNER	22.5	27	RH
159	2791	3/13/2006	8:40	SE ICB	22.5	30	RH
160	2791	3/13/2006	8:41	SE ICB	22.5	31	RH
161	2794	3/13/2006	7:30	SE ICB	22.5	31	RH
162	2794	3/13/2006	7:33	SE ICB	22.5	31	RH
163	2794	3/13/2006	7:35	SE ICB	22.5	31	RH
164	2794	3/13/2006	7:42	SE ICB	22.5	31	RH
165	3345	3/13/2006	7:50	SE ICB	22.5	32	RH
166	3345	3/13/2006	7:53	SE ICB	22.5	32	RH
167	3345	3/13/2006	8:00	SE ICB	22.5	32	RH
168	3345	3/13/2006	8:05	SE ICB	22.5	32	RH
169	3345	3/13/2006	8:10	SE ICB	22.5	32	RH
170	3345	3/13/2006	8:13	SE ICB	22.5	31	RH
Number of Panels: 170			Approx. Area (sq. ft):			556513	



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

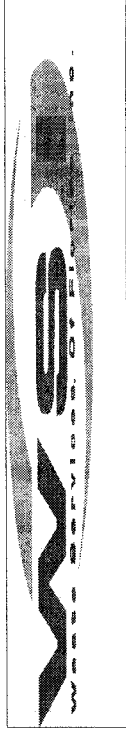
ProjNo: FQ0852

TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
2/17/2006	10:38	7500023	JP	F	1-001-002-0-17	17	RH	SW CORNER	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	10:50	75200023	JP	F	1-003-004-0-14	14	RH	SW CORNER	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	10:56	75200023	JP	F	1-002-003-0-21	21	RH	SW CORNER	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	10:58	75-47	OF	F	1-004-005-36-0	36	RH	SW ICB	835-840 30-30	CC	P	ATOK	DH
2/17/2006	11:05	75200023	JP	F	1-001-004-21-50	29	RH	SW CORNER	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	11:07	75-47	OF	F	1-005-006-36-0	36	RH	S ICB	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	11:14	75200023	JP	F	1-009-010-35-0	35	RH	S ICB	2/18/06	CC	P	ATOK	DH
2/17/2006	11:17	75-47	OF	F	1-006-007-36-0	36	RH	S ICB	842-847 30-30	CC	P	ATOK	DH
2/17/2006	11:23	75200032	JP	F	1-010-011-35-0	35	RH	S ICB	2/18/06	CC	P	ATOK	DH
2/17/2006	11:25	7547	OF	F	1-007-008-0-36	36	RH	S ICB	845-850 30-30	CC	P	ATOK	RH
2/17/2006	11:32	75200023	JP	F	1-011-012-34-0	34	RH	S ICB	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	11:36	75-47	OF	F	1-008-009-36-0	36	RH	S ICB	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	11:40	75200023	JP	F	1-012-013-34-0	34	RH	S ICB	2/18/06 30-29	CC	P	ATOK	DH
2/17/2006	11:50	75200023	JP	F	1-013-014-33-0	33	RH	S ICB	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	11:50	75-47	OF	F	1-016-017-32-0	32	RH	S ICB	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	13:10	75200023	JP	F	1-014-015-33-0	33	RH	S ICB	2/18/06 30-30	CC	P	ATOK	DH



Production Seam Log

Project: I.E.D. Solid Waste Landfill
 Location: 1501 Omni Way, St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

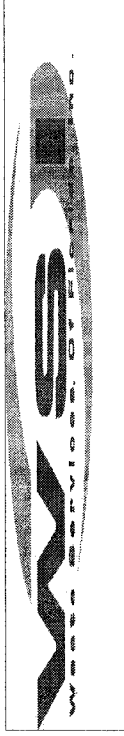
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
2/17/2006	13:11	75-47	OF	F	1-017-018-32-0	32	RH	S ICB	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	13:20	75200023	JP	F	1-015-016-32-0	32	RH	S ICB	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	13:21	75-47	OF	F	1-018-019-32-0	32	RH	S ICB	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	13:32	75-47	OF	F	1-019-020-0-31	31	RH	SE ICB	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	14:05	7547	OF	F	1-021-022-0-410	410	RH	SOUTH FLOOR	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	14:14	75200023	JP	F	1-007-021-85-108	23	RH	S TIE IN	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	14:18	75200023	JP	F	1-008-021-108-131	23	RH	S TIE IN	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	14:22	75200023	JP	F	1-009-021-131-154	23	RH	S TIE IN	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	14:26	75200023	JP	F	1-010-021-154-176	22	RH	S TIE IN	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	14:27	75200022	BR	F	1-022-023-0-407	407	RH	SOUTH FLOOR	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	14:30	75200023	JP	F	1-011-021-176-209	23	RH	S TIE IN	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	14:34	75200023	JP	F	1-012-021-209-231	22	RH	S TIE IN	2/18/06 30-30	CC	P	ATOK	RH
2/17/2006	14:34	75200023	JP	F	1-013-021-231-254	23	RH	S TIE IN	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	14:42	75200023	JP	F	1-014-021-254-276	23	RH	S TIE IN	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	14:50	75200023	JP	F	1-016-021-299-321	22	RH	S TIE IN	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	14:54	75200023	JP	F	1-017-021-321-344	23	RH	S TIE IN	2/18/06 30-30	CC	P	ATOK	DH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: FQ0852

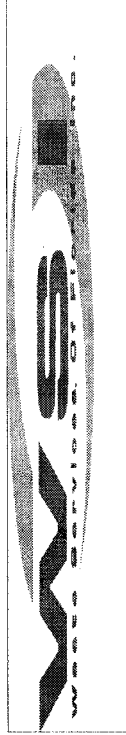
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
2/17/2006	14:58	75200023	JP	F	1-018-021-344-366	22	RH	S TIE IN	2/18/06 30-29	CC	P	ATOK	DH
2/17/2006	15:02	75200023	JP	F	1-019-021-366-389	23	RH	S TIE	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	15:06	75200023	JP	F	1-020-021-389-411	22	RH	S TIE IN	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	15:25	75200023	JP	F	1-023-024-0-94	94	RH	SOUTH FLOOR	2/18/06 30-30	CC	P	ATOK	DH
2/17/2006	15:35	74300014	JP	E	1-023-024-94-107	23	RH	WTS	2/20/06	DL	P	VTOK	RH
2/17/2006	15:37	75200023	JP	F	1-023-024-103-407	304	RH	SOUTH FLOOR	2/18/06 30-30	CC	P	ATOK	DH
2/18/2006	9:40	7547	OF	F	1-024-025-0-407	407	RH	SOUTH FLOOR	2/18/06 30-30	CC	P	ATOK	RH
2/18/2006	9:46	75200022	BR	F	1-025-026-0-407	407	RH	SOUTH FLOOR	2/18/06 30-30	CC	P	ATOK	RH
2/18/2006	9:56	75200023	JP	F	1-026-027-0-75	75	RH	SOUTH FLOOR	2/18/06 CAPPED	CC	P	VTOK	RH
2/18/2006	10:06	75200023	JP	F	1-026-027-75-90	15	RH	SOUTH FLOOR	2/18/06 CAPPED	CC	P	VTOK	RH
2/18/2006	10:08	75200023	JP	F	1-026-027-90-407	317	RH	SOUTH FLOOR	2/18/06 30-30	CC	P	ATOK	DH
2/18/2006	10:50	7547	OF	F	1-027-028-0-407	407	RH	SOUTH FLOOR	2/18/06 30-30	CC	P	ATOK	RH
2/18/2006	13:27	74300014	JP	E	1-001-EXT-0-16	16	RH	WTS	2/20/06	DL	P	VTOK	RH
2/18/2006	13:27	74300014	JP	E	1-021-EXT-16-37	21	RH	WTS	2/20/06	DL	P	VTOK	RH
2/18/2006	13:35	74300014	JP	E	1-022-EXT-37-62	25	RH	WTS	2/20/06	DL	P	VTOK	RH
2/18/2006	13:40	74300014	JP	E	1-023-EXT-62-84	22	RH	WTS	2/20/06	DL	P	VTOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: FQ0852

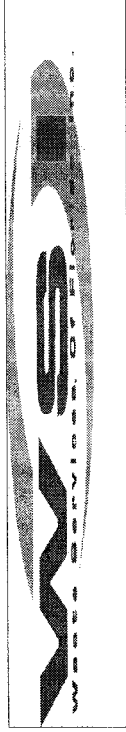
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 2.5-3.0 5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam				Location		Nondestructive Test			
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam/No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail
2/18/2006	13:43	75200022	BR	F	1-028-029-0-407	407	RH	SOUTH FLOOR	2/18/06 30-30
2/18/2006	14:28	74300014	JP	E	1-024-EXT-107-130	23	RH	WTS	2/20/06
2/18/2006	14:45	74300014	JP	E	1-025-EXT-130-153	23	RH	WTS	2/20/06
2/18/2006	14:56	74300014	JP	E	1-026-EXT-153-176	23	RH	WTS	2/20/06
2/18/2006	15:20	74300014	JP	E	1-027-EXT-176-196	20	RH	WTS	2/20/06
2/18/2006	15:30	74300014	JP	E	1-028-EXT-196-221	15	RH	WTS	2/20/06
2/18/2006	15:45	74300014	JP	E	1-029-EXT-221-242	21	RH	221' FSAT	2-20-06
2/23/2006	8:25	7547	OF	f	1-029-030-0-405	405	RH	S FL / W BERM	30-30 1355-1400
2/23/2006	8:30	75200023	JP	f	1-030-031-0-405	405	RH	S FL / W BERM	30-30 1356-1401
2/23/2006	8:35	75200022	BR	f	1-031-032-0-407	408	RH	S FL / W BERM	30-30 1357-1402
2/23/2006	9:36	7547	OF	f	1-032-033-0-407	407	RH	S FL / W BERM	30-30 1359-1404
2/23/2006	9:54	75200023	JP	F	1-033-034-0-408	404	RH	S FL / W BERM	30-30 1425-1430
2/23/2006	10:05	75200022	BR	f	1-034-035-0-407	405	RH	S FL / W BERM	30-30 1400-1405
2/23/2006	10:45	7547	OF	F	1-035-036-0-406	407	RH	S FL / W BERM	30-30 1405-1410
2/23/2006	11:20	75200023	JP	F	1-036-037-0-406	406	RH	S FL / W BERM	30-30 1412-1417
2/23/2006	11:23	75200022	BR	F	1-037-038-0-38	38	RH	S FL / W BERM	30-30 1417-1422



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

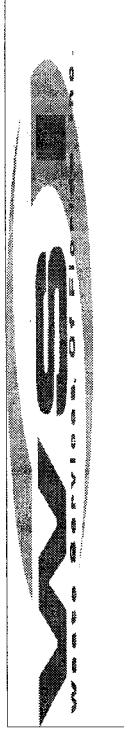
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
2/23/2006	13:38	75200023	JP	F	1-039-040-0-406	406	RH	S FL / W BERM	30-30 1536-1541	CC	P	ATOK	RH
2/23/2006	13:55	7402	LS	E	1-036-EXT-377-400	23	RH	WTS	VAC TESTED	DL	P	VTOK	RH
2/23/2006	14:00	7547	OF	F	1-038-039-0-406	406	RH	S FL / W BERM	30-30 1535-1540	CC	P	ATOK	RH
2/23/2006	14:12	75200022	BR	F	1-040-041-0-406	406	RH	S FL / W BERM	30-30 1537-1542	CC	P	ATOK	RH
2/23/2006	14:42	7402	LS	E	1-030-EXT-242-264	22	RH	WTS	VT SEAM	DL	P	VTOK	RH
2/23/2006	14:45	7402	LS	E	1-031-EXT-264-287	23	RH	WTS	VT SEAM	DL	P	VTOK	RH
2/23/2006	14:50	7402	LS	E	1-032-EXT-287-309	22	RH	WTS	VT SEAM	DL	P	VTOK	RH
2/23/2006	15:18	7402	LS	E	1-033-EXT-309-331	22	RH	WTS	VT SEAM	DL	P	VTOK	RH
2/23/2006	15:26	7402	LS	E	1-034-EXT-331-354	23	RH	WTS	VT SEAM	DL	P	VTOK	RH
2/23/2006	15:42	7402	LS	E	1-035-EXT-354-377	23	RH	WTS	VT	DL	P	VTOK	RH
2/23/2006	16:04	7402	LS	E	1-037-EXT-400-422	22	RH	WTS	VAC TESTED	DL	P	VTOK	RH
2/23/2006	16:15	7402	LS	E	1-038-EXT-422-444	22	RH	WTS	VAC TESTED	DL	P	VTOK	RH
2/23/2006	16:25	7402	LS	E	1-039-EXT-444-467	23	RH	WTS	VAC TESTED	DL	P	VTOK	RH
2/23/2006	16:37	7402	LS	E	1-040-EXT-467-490	23	RH	WTS	VAC TESTED	DL	P	VTOK	RH
2/23/2006	16:45	7402	LS	E	1-041-EXT-490-512	22	RH	WTS	VAC TESTED	DL	P	VTOK	RH
2/24/2006	7:50	75200023	JP	F	1-041-042-0-406	406	RH	S FL / W BERM	0730-0735 30-30	CC	P	ATOK	RH



Production Seam Log

Project: JE.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

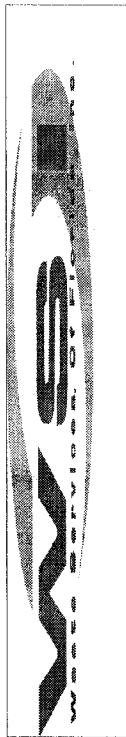
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
2/24/2006	7:55	7547	OF	F	1-042-043-0-37	37	RH	S FL / W BERM	0922-0927 30-30	CC	P	ATOK	RH
2/24/2006	8:05	75200022	BR	F	1-043-044-0-405	405	RH	S FL / W BERM	0920-0925 30-30	CC	P	ATOK	RH
2/24/2006	8:25	7537	OF	F	1-042-043-37-405	368	RH	S FL / W BERM	0932-0937 30-30	CC	P	ATOK	RH
2/24/2006	9:05	75200023	JP	F	1-044-045-0-405	405	RH	N FL W BERM	1020-1025 30-30	CC	P	ATOK	RH
2/24/2006	9:15	75200022	BR	F	1-045-046-0-406	405	RH	N FL / W BERM	1034-1039 30-30	CC	P	ATOK	RH
2/24/2006	10:20	74300014	LS	E	1-042-EXT-512-534	22	RH	WTS	VT 2/25/06	CC	P	VTOK	RH
2/24/2006	10:30	74300014	LS	E	1-043-EXT-534-557	23	RH	WTS	VT 2/25/06	CC	P	VTOK	RH
2/24/2006	10:50	74300014	LS	E	1-044-EXT-557-580	23	RH	WTS	VT 2/25/06	CC	P	VTOK	RH
2/24/2006	11:00	74300014	LS	E	1-045-EXT-580-602	22	RH	WTS	VT 2/25/06	CC	P	VTOK	RH
2/27/2006	9:05	7537	OF	F	1-046-047-0-406	406	RH	N FL W / BERM	1022-1027 30-30	CC	P	ATOK	RH
2/27/2006	9:11	75200023	JP	F	1-047-048-0-406	406	RH	N FL / W BERM	1023-1028 30-30	CC	P	ATOK	RH
2/27/2006	9:20	75200022	BR	F	1-048-049-0-406	405	RH	F FLOOR W BERN	1024-1029 30-30	CC	P	ATOK	RH
2/27/2006	10:15	7537	OF	F	1-049-050-0-405	405	RH	FLOOR / W BER	1107-1112 30-30	CC	P	ATOK	RH
2/27/2006	10:18	75200023	JP	F	1-050-051-0-405	405	RH	N FL / W BERM	1118-1123 30-30	CC	P	ATOK	RH
2/27/2006	10:28	75200022	BR	F	1-051-052-0-405	405	RH	FLOOR / W BER	1310-1315	CC	P	ATOK	RH
2/27/2006	11:25	74300014	LS	E	1-046-EXT-602-624	22	RH	WTS	VT V2/25/06	CC	P	VTOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

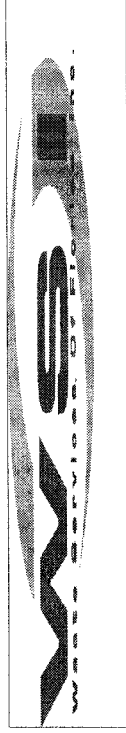
ProjNo: EQ0852

TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
2/27/2006	13:33	7537	OF	F	1-052-053-0-404	404	RH	N FL / W BERM	1441-1446 30-30	CC	P	ATOK	RH
2/27/2006	13:42	75200002	BR	F	1-053-054-0-404	404	RH	N FL W BERM	1442-1447 30-30	CC	P	ATOK	RH
2/27/2006	14:10	75200023	JP	F	1-057-058-0-23	23	RH	N FLOOR	1349-1354 30-30	CC	P	ATOK	RH
2/27/2006	14:20	75200023	JP	F	1-054-056-0-288	288	RH	N FL W BERM	1511-1516 30-30	CC	P	ATOK	RH
2/27/2006	14:45	7537	OF	F	1-055-058-0-34	34	RH	N FLOOR	1506-1511 30-30	CC	P	ATOK	RH
2/27/2006	14:45	74300002	JP	E	1-057-EXT-826-849	23	RH	WTS	VT 2/28/06	DL	P	VTOK	RH
2/27/2006	14:50	75200023	JP	F	1-055-056-0-23	23	RH	N FLOOR	1510-1515 30-30	CC	P	ATOK	RH
2/27/2006	14:57	75200023	JP	F	1-058-059-0-188	188	RH	N FL W BERM	1549-1554 30-30	CC	P	ATOK	RH
2/27/2006	15:05	75200023	JP	F	1-054-055-0-58	58	RH	NE FLOOR	1523-1528 30-30	CC	P	ATOK	RH
2/27/2006	15:14	7537	OF	F	1-056-057-0-113	113	RH	N FL W BERM	1546-1551 30-30	CC	P	ATOK	RH
2/27/2006	15:18	75200023	JP	F	1-059-060-0-023	23	RH	NW FLOOR	1657-1702 30-30	CC	P	ATOK	RH
2/27/2006	15:29	7537	OF	F	1-056-058-113-288	175	RH	N FLOOR	1547-1552 30-30	CC	P	ATOK	RH
2/27/2006	15:30	75200022	BR	F	1-057-059-082-113	31	RH	N FLOOR	1558-1603 30-30	CC	P	ATOK	RH
2/27/2006	15:35	75200022	BR	F	1-057-060-82-113	31	RH	N FLOOR	1607-1612 30-30	CC	P	ATOK	RH
2/27/2006	15:40	74300014	LS	E	1-047-EXT-624-646	22	RH	WTS	VT 2/28/06	DL	P	VTOK	DH
2/27/2006	15:57	74300014	LS	E	1-048-EXT-646-669	23	RH	WTS	VT 2/28/06	DL	P	VTOK	DH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: FQ0852

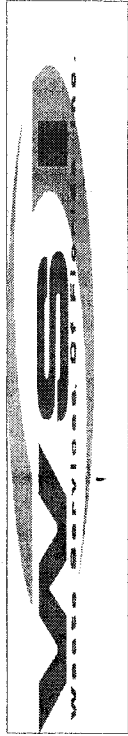
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
2/27/2006	16:00	74300014	LS	E	1-052-EXT-736-759	23	RH	WTS	VT 2/28/06	DL	P	VTOK	RH
2/27/2006	16:05	74300002	JP	E	1-053-EXT-759-781	22	RH	WTS	VT 2/28/06	DL	P	VTOK	DH
2/27/2006	16:12	74300014	DL	E	1-049-EXT-669-691	22	RH	WTS	VT 2/28/06	DL	P	VTOK	RH
2/27/2006	16:18	74300014	LS	E	1-050-EXT-691-714	23	RH	WTS	VT 2/28/06	DL	P	VTOK	RH
2/27/2006	16:20	74300002	JP	E	1-054-EXT-781-804	23	RH	WTS	VT 2/28/06	DL	P	VTOK	DH
2/27/2006	16:32	74300014	LS	E	1-051-EXT-714-736	22	RH	WTS	VT 2/28/06	DL	P	VTOK	RH
2/27/2006	16:33	74300002	JP	E	1-056-EXT-804-826	22	RH	WTS	VT 2/28/06	DL	P	VTOK	RH
2/27/2006	16:55	74300002	DL	E	1-060-EXT-849-872	23	RH	WTS	VT 2/28/06	CC	P	VTOK	DH
3/4/2006	8:00	75200022	BR	F	1-059-061-82-255	173	RH	NW CORNER	1002-1007 30-30	CC	P	ATOK	RH
3/4/2006	8:10	75200023	JP	F	1-061-062-47-210	163	RH	NW CORNER	0948-0953 30-30	CC	P	ATOK	RH
3/4/2006	8:23	7537	OF	F	1-062-063-0-23	23	RH	NW CORNER	0949-0954 30-30	CC	P	ATOK	RH
3/4/2006	8:31	75200023	BR	F	1-060-061-82-0	82	RH	FLOOR - NW CORNER	1007-1012 30-30	CC	P	ATOK	RH
3/4/2006	8:34	75200023	JP	F	1-061-063-0-47	47	RH	NW CORNER	0948-0953 30-30	CC	P	ATOK	RH
3/4/2006	8:37	7537	OF	F	1-063-064-48-0	48	RH	NW CORNER	0950-0955 30-30	CC	P	ATOK	RH
3/4/2006	8:37	7537	OF	F	1-064-062-163-48	115	RH	NW CORNER	1013-1018 30-30	CC	P	ATOK	RH
3/4/2006	8:49	75200022	BR	F	1-064-065-116-0	116	RH	NW CORNER	1009-11014 30-30	CC	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

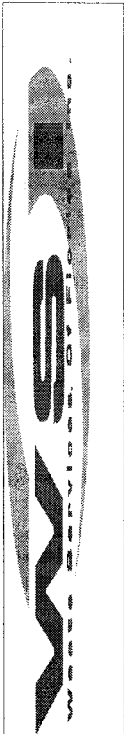
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/4/2006	8:56	75200023	JP	F	1-065-066-65-0	65	RH	NW CORNER	1012-1017 30-30	CC	P	ATOK	RH
3/4/2006	9:13	75200022	BR	F	1-066-067-42-0	42	RH	NW CORNER	1017-1022 30-29	CC	P	ATOK	RH
3/4/2006	9:13	75200023	JP	F	1-072-073-0-75	75	RH	NW	1342-1347 30-30	CC	P	ATOK	RH
3/4/2006	9:14	7537	OF	F	1-067-068-31-0	31	RH	NW CORNER	1147-1152 30-30	CC	P	ATOK	RH
3/4/2006	9:25	7537	OF	F	1-068-069-15-0	15	RH	NW CORNER	1146-1151 30-30	CC	P	ATOK	RH
3/4/2006	9:28	75200023	JP	F	1-073-074-0-75	75	RH	N SLOPE	1344-1349 30-30	CC	P	ATOK	RH
3/4/2006	9:29	7537	OF	F	1-071-072-0-75	75	RH	NW CORNER	1148-1153 30-30	CC	P	ATOK	RH
3/4/2006	9:33	7537	OF	F	1-069-070-16-0	16	RH	NW CORNER	1146-1151 30-30	CC	P	ATOK	RH
3/4/2006	9:42	7537	OF	F	1-070-071-0-30	30	RH	NW CORNER	1145-1150 30-30	CC	P	ATOK	RH
3/4/2006	9:46	75200023	JP	F	1-074-075-0-75	75	RH	N SLOPE	1345-1350 30-30	CC	P	ATOK	RH
3/4/2006	9:48	75200022	BR	F	1-075-076-0-75	75	RH	N SLOPE	1206-1211 30-30	CC	P	ATOK	RH
3/4/2006	9:58	7537	OF	F	1-076-077-0-75	75	RH	N SLOPE	1349-1354 30-30	CC	P	ATOK	RH
3/4/2006	10:11	75200023	JP	F	1-079-080-0-75	75	RH	N SLOPE	1416-1421 30-30	CC	P	ATOK	RH
3/4/2006	10:13	75200022	BR	F	1-082-083-0-69	69	RH	N SLOPE	1447-1452 30-30	CC	P	ATOK	RH
3/4/2006	10:26	7537	OF	F	1-077-078-0-75	75	RH	N SLOPE	1140-1145 30-30	CC	P	ATOK	RH
3/4/2006	10:30	75200023	JP	F	1-080-081-0-75	75	RH	N SLOPE	1420-1425 30-30	CC	P	ATOK	RH



Production Seam Log

Project: I.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: FO0852

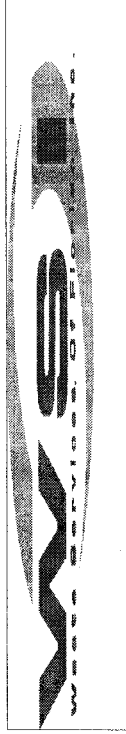
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30 5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam/No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/4/2006	10:35	75200022	BR	F	1-086-087-0-73	73	RH	N SLOPE	1540-1545 30-30	CC	P	ATOK	RH
3/4/2006	10:36	7537	OF	F	1-078-079-0-75	75	RH	N SLOPE	1415-1420 30-30	CC	P	ATOK	RH
3/4/2006	10:47	75200023	JP	F	1-081-082-0-75	75	RH	N SLOPE	1445-1450 30-30	CC	P	ATOK	RH
3/4/2006	10:54	75200022	BR	F	1-087-088-0-75	75	RH	N SLOPE	1542-1547 30-30	CC	P	ATOK	RH
3/4/2006	11:06	75200023	JP	F	1-084-085-0-23	23	RH	N SLOPE	1502-1507 30-30	CC	P	ATOK	RH
3/4/2006	11:10	7537	OF	F	1-068-071-0-29	29	RH	NW CORNER	1147-1152 30-30	CC	P	ATOK	RH
3/4/2006	11:12	7537	OF	F	1-067-072-29-55	26	RH	NTS	1147-1152 30-30	CC	P	ATOK	RH
3/4/2006	11:15	7537	OF	F	1-066-072-55-72	17	RH	NW CORNER	1340-1345 30-30	CC	P	ATOK	RH
3/4/2006	11:15	75200023	JP	F	1-083-084-0-41	41	RH	N SLOPE	1502-1507 30-30	CC	P	ATOK	RH
3/4/2006	11:15	75200022	BR	F	1-088-089-0-75	75	RH	N SLOPE	1544-1549 30-30	CC	P	ATOK	RH
3/4/2006	11:17	7537	OF	F	1-066-073-72-95	23	RH	NTS	1151-1156 30-30	CC	P	ATOK	RH
3/4/2006	11:20	7537	OF	F	1-065-074-95-119	24	RH	NTS	1346-1351 30-30	CC	P	ATOK	RH
3/4/2006	11:23	7537	OF	F	1-065-075-119-142	23	RH	NTS	1345-1350 30-30	CC	P	ATOK	RH
3/4/2006	11:27	75200023	JP	F	1-083-085-67-75	8	RH	N SLOPE	1500-1505 30-30	CC	P	ATOK	RH
3/4/2006	11:28	7537	OF	F	1-064-076-147-162	15	RH	NTS	1348-1353 30-30	CC	P	ATOK	RH
3/4/2006	11:30	7537	OF	F	1-064-077-162-184	22	RH	NTS	1410-1415 30-30	CC	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St. Cloud Florida
 Description: Cell 2 Construction

ProjNo: FQ0852

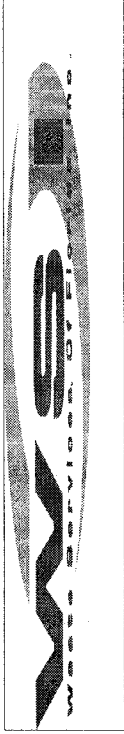
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30 5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam					Location		Nondestructive Test						
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/4/2006	11:31	7537	OF	F	1-065-076-142-147	5	RH	NTS	capped	DL	P	VTOK	RH
3/4/2006	11:33	7537	OF	F	1-064-078-183-200	17	RH	NTS	1412-1417 30-30	CC	P	ATOK	RH
3/4/2006	11:35	7537	OF	F	1-062-078-200-206	6	RH	NTS	1414-1419 30-30	CC	P	ATOK	RH
3/4/2006	11:35	75200023	JP	F	1-084-086-0-66	66	RH	N SLOPE	1521-1526 30-30	CC	P	ATOK	RH
3/4/2006	11:37	7537	OF	F	1-062-079-206-229	23	RH	NTS	1414-1419 30-30	CC	P	ATOK	RH
3/4/2006	11:40	7537	OF	F	1-062-080-229-253	24	RH	NTS	1416-1421 30-30	CC	P	ATOK	RH
3/4/2006	11:43	7537	OF	F	1-061-081-253-276	23	RH	NTS	1556-1601 30-30	CC	P	ATOK	RH
3/4/2006	11:46	75200023	JP	F	1-085-086-66-75	9	RH	N SLOPE	1520-1525 30-30	CC	P	ATOK	RH
3/4/2006	11:47	7537	OF	F	1-061-082-276-299	23	RH	NTS	1445-1450 30-30	CC	P	ATOK	RH
3/4/2006	11:50	7537	OF	F	1-061-083-299-307	8	RH	NTS	1447-1452 30-30	CC	P	ATOK	RH
3/4/2006	11:51	7537	OF	F	1-059-083-307-323	16	RH	NTS	1545-1550 30-30	CC	P	ATOK	RH
3/4/2006	11:53	7537	OF	F	1-059-085-323-346	23	RH	NTS	1555-1600 30-30	CC	P	ATOK	RH
3/4/2006	11:56	7537	OF	F	1-059-086-346-361	15	RH	NTS	0800-0805 30-30	CC	P	ATOK	RH
3/4/2006	14:14	74300014	OF	E	1-061-ext-875-896	19	RH	WTS	3-6-06	DL	P	VTOK	RH
3/4/2006	14:23	74300014	OF	F	1-063-ext-896-918	22	RH	WTS	3-6-06	DL	P	VTOK	RH
3/4/2006	14:31	74300014	OF	E	1-064-ext-918-941	23	RH	WTS	3-6-06	DL	P	VTOK	RH



Project: J.E.D. Solid Waste Landfill
Location: 1501 Omni Way St Cloud Florida
Description: Cell 2 Construction

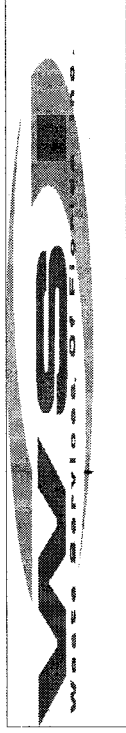
ProjNo: FQ0852 TaskNo: 01

Vacuum Box: 5 lbs. 20 secs.

Seam Pressure: 25-30 5 min

Series: 1

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/4/2006	14:40	74300014	OF	E	1-065-ext-941-964	23	RH	WTS	3-6-06	DL	P	VТОK	RH
3/4/2006	15:05	74300014	OF	E	1-066-ext-964-987	23	RH	WTS	3-6-06	DL	P	VТОK	RH
3/4/2006	15:10	75200022	BR	F	1-096-097-0-25	25	RH	SUMP	1603-1608 30-30	CC	P	АТОK	RH
3/4/2006	15:15	74300014	OF	E	1-067-ext-987-1011	24	RH	WTS	3-6-06	DL	P	VТОK	RH
3/4/2006	15:24	74300014	OF	E	1-068-ext-1011-1033	22	RH	WTS	3-6-06	DL	P	VТОK	RH
3/4/2006	15:25	75200022	BR	F	1-095-096-0-20	20	RH	SUMP	1615-1620 30-30	CC	P	АТОK	DH
3/4/2006	15:32	74300014	OF	E	1-069-ext-1033-042	9	RH	WTS	3-6-06	DL	P	VТОK	RH
3/4/2006	15:34	74300014	OF	E	1-070-ext-1042-1071	29	RH	WTS	3-6-06	JR	P	VТОK	RH
3/4/2006	15:38	74300022	BR	F	1-093-094-21-0	21	RH	SUMP	1631-1636 30-30	CC	P	АТОK	DH
3/4/2006	16:10	75200022	BR	F	1-094-095-25-0	25	RH	SUMP	1637-1642 30-30	CC	P	АТОK	DH
3/4/2006	16:56	75200022	BR	F	1-097-098-0-25	25	RH	SUMP	1705-1710 30-30	CC	P	АТОK	DH
3/4/2006	17:05	75200022	BR	F	1-098-100-0-22	22	RH	SUMP	1730-1735 30-30	CC	P	АТОK	DH
3/4/2006	17:08	74300023	JP	F	1-092-093-0-33	33	RH	SUMP	0650-0655 30-30	CC	P	АТОK	DH
3/4/2006	17:18	74300023	JP	F	1-091-092-0-45	45	RH	SUMP	0652-0657 30-30	CC	P	АТОK	DH
3/4/2006	17:27	74300023	JP	F	1-089-090-0-56	56	RH	N SLOPE	0700-0705 30-30	CC	P	АТОK	RH
3/4/2006	17:32	75200022	BR	F	1-100-101-0-40	40	RH	SUMP	1733-1738 30-30	CC	P	АТОK	DH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way, St Cloud Florida
 Description: Cell 2 Construction

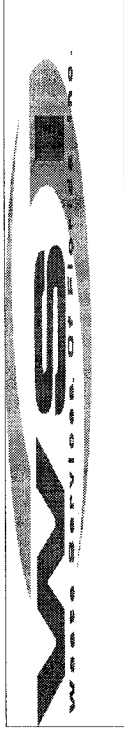
ProjNo: FQ0852

TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam				Location			Nondestructive Test						
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/4/2006	17:35	75200022	BR	F	1-101-102-0-31	31	RH	SUMP	1743-1748 30-30	CC	P	ATOK	RH
3/4/2006	17:40	74300023	JP	F	1-090-091-30-56	26	RH	SUMP	0658-0703 30-30	CC	P	ATOK	DH
3/4/2006	17:40	74300023	JP	F	1-090-092-5-30	25	RH	SUMP	0715-0720 30-30	CC	P	ATOK	DH
3/4/2006	17:40	74300023	JP	F	1-090-093-0-5	5	RH	N SLOPE	0710-0715 30-30	CC	P	ATOK	DH
3/4/2006	17:40	75200022	BR	F	1-103-100-0-5	5	RH	SUMP	728-733 30-30	CC	P	ATOK	RH
3/4/2006	17:45	75200022	BR	F	1-103-101-5-29	24	RH	SUMP	729-734 30-30	CC	P	ATOK	DH
3/4/2006	17:55	75200022	BR	F	1-103-102-29-50	21	RH	SUMP	726-731 30-30	CC	P	ATOK	DH
3/6/2006	8:20	74300002	JP	E	1-094-099-86-92	6	RH	SUMP	SPT-3/6	CC	P	SPT	DH
3/6/2006	8:20	74300002	JP	E	1-095-099-86-89	3	RH	SUMP	SPT-3/6	CC	P	SPT	DH
3/6/2006	8:20	74300002	JP	E	1-096-099-89-111	22	RH	SUMP	SPT-3/6	CC	P	SPT	DH
3/6/2006	8:20	74300002	JP	E	1-097-099-111-115	4	RH	SUMP	SPT-3/6	CC	P	SPT	DH
3/6/2006	8:20	74300002	JP	E	1-098-099-115-123	8	RH	SUMP	SPT-3/6	CC	P	SPT	DH
3/6/2006	8:20	74300002	JP	E	1-100-099-35-50	15	RH	SUMP	SPT-3/6	CC	P	SPT	DH
3/6/2006	9:26	74300002	JP	E	1-091-102-0-22	22	RH	SUMP	SPT-3/6	CC	P	ST	DH
3/6/2006	9:40	74300002	JP	E	1-092-102-22-45	23	RH	SUMP	ST-3/6	CC	P	ST	DH
3/6/2006	9:48	74300002	JP	E	1-093-100-45-61	16	RH	SUMP	ST-3/6	CC	P	ST	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way, St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

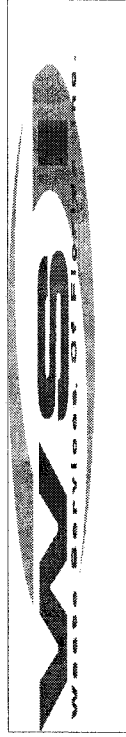
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary

Series: 1

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus.	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/6/2006	11:02	74300016	DL	E	1-104-057-361-368	6	RH	NE FL	3-6-06	CC	P	VTOK	RH
3/6/2006	11:03	75200016	DL	F	1-058-104-361-381	20	RH	NTS	capped	DL	P	VTOK	RH
3/6/2006	11:03	74300016	DL	F	1-104-054-420-433	13	RH	NE FL	1117-1122 30-30	CC	P	ATOK	RH
3/6/2006	11:03	74300016	DL	F	1-104-055-398-420	22	RH	NE FL	1112-1117 30-30	CC	P	ATOK	RH
3/6/2006	11:03	74300016	DL	F	1-104-058-368-398	30	RH	NE FL	1108-1113 30-30	CC	P	ATOK	RH
3/6/2006	11:14	74300016	DL	F	1-104-086-361-368	7	RH	NE FL	1130-1135 30-30	CC	P	ATOK	RH
3/6/2006	11:16	74300016	DL	F	1-104-087-368-390	22	RH	NE FL	1130-1135 30-30	CC	P	ATOK	RH
3/6/2006	11:20	74300016	DL	F	1-104-088-390-414	24	RH	NE FL	1133-1138 30-30	CC	P	ATOK	RH
3/6/2006	11:25	74300016	DL	F	1-104-089-414-434	20	RH	NE FL	1140-1145 30-30	CC	P	ATOK	RH
3/6/2006	11:50	74300002	JP	E	1-105-89-56-74	18	RH	SUMP	3-6-06	DL	P	VTOK	RH
3/6/2006	11:50	74300002	JP	E	1-105-91-0-13	13	RH	SUMP	3-6-06	DL	P	VTOK	DH
3/6/2006	18:16	74300002	JP	E	1-093-099-61-86	25	RH	SUMP	SPT-3/6	CC	P	SPT	DH
3/7/2006	11:27	75200022	BR	F	1-037-038-38-407	369	RH	W BERM	1349-1354 30-30	CC	P	ATOK	RH
3/9/2006	9:05	75200022	BR	F	1-108-103-0-63	63	RH	E SLOPE	1335-1340 30-30	CC	P	ATOK	RH
3/9/2006	9:05	7539	DL	F	1-113-115-68-107	39	RH	E BERM	1401-1406 30-30	CC	P	ATOK	RH
3/9/2006	9:10	7537	OF	F	1-106-105-0-14	14	RH	SUMP AREA	1316-1321 30-30	CC	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
Location: 1501 Omni Way St Cloud Florida
Description: Cell 2 Construction

ProjNo: FQ0852

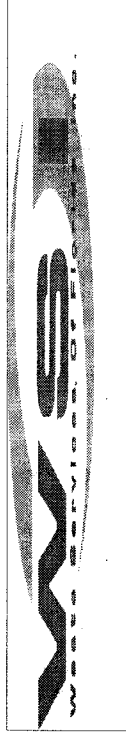
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/9/2006	9:10	75200023	JP	F	1-109-110-0-78	78	RH	E BERM	1344-1349 30-30	CC	P	ATOK	RH
3/9/2006	9:11	7537	OF	F	1-106-089-14-17	3	RH	SUMP AREA	1317-1322 30-30	CC	P	ATOK	RH
3/9/2006	9:12	7537	OF	F	1-106-104-6-23	17	RH	SUMP AREA	1317-1322 30-30	CC	P	ATOK	RH
3/9/2006	9:14	7537	OF	F	1-106-107-0-38	38	RH	SUMP AREA	1330-1335 30-30	CC	P	ATOK	RH
3/9/2006	9:24	7537	OF	F	1-104-107-0-17	17	RH	SUMP AREA	1317-1322 30-30	CC	P	ATOK	RH
3/9/2006	9:25	75200023	JP	F	1-110-111-0-83	83	RH	E BERM	1345-1350 30-30	CC	P	ATOK	RH
3/9/2006	9:37	7537	OF	F	1-107-053-0-25	25	RH	SUMP AREA	1321-1326 30-30	CC	P	ATOK	RH
3/9/2006	9:43	7537	OF	F	1-107-054-27-48	21	RH	SUMP AREA	1331-1336 30-30	CC	P	ATOK	RH
3/9/2006	9:47	75200023	JP	F	1-111-112-0-91	91	RH	NE TS	1345-1350 30-30	CC	P	ATOK	RH
3/9/2006	9:49	75200022	BR	F	1-114-115-0-23	22	RH	E C FL	1400-1405 30-30	CC	P	ATOK	RH
3/9/2006	9:50	7537	OF	F	1-103-106-0-14	14	RH	SUMP AREA	1336-1341 30-30	CC	P	ATOK	RH
3/9/2006	9:54	7537	OF	F	1-106-054-14-27	13	RH	SUMP AREA	1332-1337 30-30	CC	P	ATOK	RH
3/9/2006	9:55	7539	DL	F	1-113-114-0-68	68	RH	E BERM	1401-1406 30-30	CC	P	ATOK	RH
3/9/2006	9:58	75200022	BR	F	1-115-116-0-68	68	RH	E BERM	1403-1408 30-30	CC	P	ATOK	RH
3/9/2006	10:00	7537	OF	F	1-106-091-0-7	7	RH	SUMP AREA	1314-1319 30-30	CC	P	ATOK	RH
3/9/2006	10:01	7537	OF	F	1-106-102-7-28	21	RH	SUMP AREA	1314-1319 30-30	CC	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way, St Cloud Florida
 Description: Cell 2 Construction

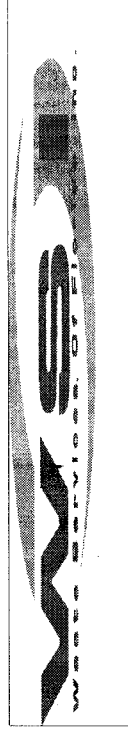
ProjNo: FQ0852

TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/9/2006	10:06	75200022	BR	F	1-114-116-68-115	47	RH	E BERM	1403-1408 30-30	CC	P	ATOK	RH
3/9/2006	10:11	75200023	JP	F	1-112-113-0-99	99	RH	E BERM	1346-1351 30-30	CC	P	ATOK	RH
3/9/2006	14:23	7539	DL	F	1-131-132-0-135	135	RH	E BERM	1557-1602 30-30	CC	P	ATOK	RH
3/9/2006	14:37	75200022	BR	F	1-132-117-0-128	128	RH	E BERM	1550-1555 30-30	CC	P	ATOK	RH
3/9/2006	15:05	7539	DL	F	1-116-117-0-123	123	RH	E BERM	1640-1645 30-30	CC	P	ATOK	DH
3/9/2006	15:06	7537	OF	F	1-108-053-0-15	15	RH	NE TS	1512-1517 30-30	CC	P	ATOK	RH
3/9/2006	15:11	75200022	BR	F	1-108-109-0-68	68	RH	E BERM	1543-1548 30-30	CC	P	ATOK	RH
3/9/2006	15:11	7537	OF	F	1-109-052-23-39	16	RH	NE TS	1516-1521 30-30	CC	P	ATOK	RH
3/9/2006	15:11	7537	OF	F	1-109-053-15-23	8	RH	E TS	1512-1517 30-30	CC	P	ATOK	RH
3/9/2006	15:13	7537	OF	F	1-110-052-39-46	7	RH	NE TS	1519-1524 30-30	CC	P	ATOK	RH
3/9/2006	15:14	7537	OF	F	1-110-051-46-53	7	RH	NE TS	1519-1524 30-30	CC	P	ATOK	RH
3/9/2006	15:16	7537	OF	F	1-111-051-63-68	5	RH	NE TS	1519-1524 30-30	CC	P	ATOK	RH
3/9/2006	15:17	7537	OF	F	1-111-051-68-87	19	RH	NE TS	1524-1529 30-30	CC	P	ATOK	RH
3/9/2006	15:20	7537	OF	F	1-112-049-90-111	21	RH	NE TS	1524-1529 30-30	CC	P	ATOK	RH
3/9/2006	15:20	7537	OF	F	1-112-050-87-90	3	RH	NE TS	1525-1530 30-30	CC	P	ATOK	RH
3/9/2006	15:20	7537	OF	F	1-112-049-90-111	21	RH	NE TS	1525-1530 30-30	CC	P	ATOK	RH
3/9/2006	15:20	7537	OF	F	1-112-050-87-90	3	RH	NE TS	PATCHED	DL	P	VTOK	RH
3/9/2006	15:23	7537	OF	F	1-113-048-113-135	22	RH	NE TS	1525-1540 30-30	CC	P	ATOK	RH



Production Seam Log

Project: I.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: FQ0852

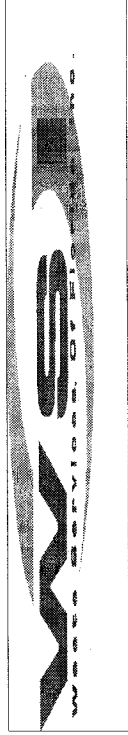
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30 5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam				Location			Nondestructive Test						
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/9/2006	15:23	7537	OF	F	1-113-049-111-113	2	RH	NE TS	PATCHED	DL	P	VTOK	RH
3/9/2006	15:26	7537	OF	F	1-115-047-135-158	23	RH	NE TS	1535-1540 30-30	CC	P	ATOK	RH
3/9/2006	15:29	7537	OF	F	1-116-046-158-181	23	RH	NE TS	1546-1551 30-30	CC	P	ATOK	RH
3/9/2006	15:32	7537	OF	F	1-117-045-181-198	17	RH	NE TS	1548-1553 30-30	CC	P	ATOK	RH
3/9/2006	15:35	7537	OF	F	1-132-045-198-204	6	RH	NE TS	1550-1555 30-30	CC	P	ATOK	RH
3/9/2006	15:36	7537	OF	F	1-132-044-204-223	19	RH	E TS	1556-1601 30-30	CC	P	ATOK	RH
3/9/2006	15:39	7537	OF	F	1-131-044-223-226	3	RH	E TS	PATCHED	DL	P	VTOK	RH
3/9/2006	16:02	7537	OF	F	1-119-034-446-450	4	RH	ETS	846-851 30-30	CC	P	ATOK	RH
3/9/2006	15:39	7537	OF	F	1-131-43-226-248	22	RH	E BERM	1556-1601 30-30	CC	P	ATOK	RH
3/9/2006	10:42	7537	OF	F	1-118-119-0-212	212	RH	E berm	905-910 30-30	CC	P	ATOK	RH
3/9/2006	11:02	75200022	BR	F	1-120-121-0-23	23	RH	C FLOOR	836-841 30-30	CC	P	ATOK	RH
3/9/2006	11:08	7539	DL	F	1-121-119-175-205	30	RH	C FLOOR	845-850 30-30	CC	P	ATOK	RH
3/9/2006	11:12	75200022	BR	F	1-122-121-178-191	13	RH	C FLOOR	830-835 30-30	CC	P	ATOK	RH
3/9/2006	11:14	7539	DL	F	1-119-122 0-175	175	RH	E berm	837-842 30-30	CC	P	ATOK	RH
3/9/2006	11:16	75200022	BR	F	1-120-122-0-178	178	RH	E berm	835-840 30-30	CC	P	ATOK	RH
3/9/2006	11:20	75200023	JP	F	1-123-124-0-23	23	RH	C FLOOR	804-809 30-30	CC	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

TaskNo: 01

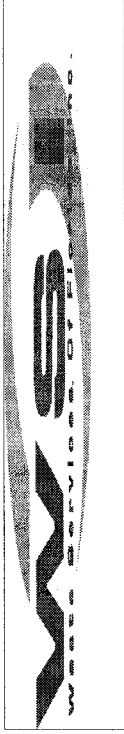
Vacuum Box: 5 lbs. 20 secs.

Seam Pressure: 25-30 5 min

Material Type gml : 1 Specifications:

Primary / Secondary: Secondary Series: 1

Production Seam				Location			Nondestructive Test						
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/9/2006	11:32	75200023	JP	F	1-124-122-159-190	31	RH	C FLOOR	811-816 30-30	CC	P	ATOK	RH
3/9/2006	11:34	7537	OF	F	1-124-125-160-180	20	RH	E berm	746-751 30-30	CC	P	ATOK	RH
3/9/2006	11:36	75200023	JP	F	1-122-123-0-159	159	RH	E berm	805-810 30-30	CC	P	ATOK	RH
3/9/2006	13:25	7537	OF	F	1-123-125-0-160	160	RH	E berm	803-808 30-30	CC	P	ATOK	RH
3/9/2006	13:36	75200022	BR	F	1-127-126-0-165	165	RH	E berm	731-736 30-30	CC	P	ATOK	RH
3/9/2006	13:40	7539	DL	F	1-125-126-0-174	174	RH	E berm	736-741 30-30	CC	P	ATOK	RH
3/9/2006	14:02	75200023	JP	F	1-127-128-0-157	157	RH	E berm	1628-1623 30-30	CC	P	ATOK	RH
3/9/2006	14:05	7537	OF	F	1-130-129-0-23	23	RH	C FLOOR	1601-1606 30-30	CC	P	ATOK	RH
3/9/2006	14:08	75200022	BR	F	1-129-131-94-142	48	RH	E berm	1601-1606 30-30	CC	P	ATOK	RH
3/9/2006	14:17	75200022	BR	F	1-131-130-0-94	94	RH	E berm	1601-1606 30-30	CC	P	ATOK	RH
3/9/2006	14:22	7537	OF	F	1-128-130-0-91	91	RH	E berm	1619-1624 30-30	CC	P	ATOK	RH
3/9/2006	15:42	7537	OF	F	1-129-42-248-272	24	RH	Tie in	1623-1628 30-30	CC	P	ATOK	RH
3/9/2006	15:45	7537	OF	F	1-128-041-272-294	22	RH	Tie in	1624-1629 30-30	CC	P	ATOK	RH
3/9/2006	15:48	7537	OF	F	1-128-040-294-297	3	RH	Tie in	patched	DL	P	VTOK	RH
3/9/2006	15:48	7537	OF	F	1-127-040-297-316	19	RH	Tie in	1629-1634 30-30	CC	P	ATOK	RH
3/9/2006	15:51	7537	OF	F	1-126-039-322-339	17	RH	Tie in	732-737 30-30	CC	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way, St Cloud Florida
 Description: Cell 2 Construction

ProjNo: FQ0852

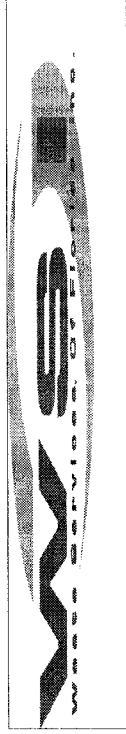
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam					Location		Nondestructive Test						
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/9/2006	15:54	7537	OF	F	1-126-038-339-347	8	RH	Tie in	735-740 30-30	CC	P	ATOK	RH
3/9/2006	15:55	7537	OF	F	1-125-038-347-360	13	RH	Tie in	737-742 30-30	CC	P	ATOK	RH
3/9/2006	15:57	7537	OF	F	1-125-037-360-372	12	RH	Tie in	745-750 30-30	CC	P	ATOK	RH
3/9/2006	15:58	7537	OF	F	1-124-037-372-383	11	RH	Tie in	747-752 30-30	CC	P	ATOK	RH
3/9/2006	16:02	7537	OF	F	1-124-036-383-397	14	RH	Tie in	810-815 30-30	CC	P	ATOK	RH
3/9/2006	16:05	7537	OF	F	1-122-036-397-405	8	RH	Tie in	812-817 30-30	CC	P	ATOK	RH
3/9/2006	16:07	7537	OF	F	1-122-035-405-421	16	RH	Tie in	829-834 30-30	CC	P	ATOK	RH
3/9/2006	16:10	7537	OF	F	1-121-035-421-427	6	RH	Tie in	831-836 30-30	CC	P	ATOK	RH
3/9/2006	16:11	7537	OF	F	1-121-034-427-446	19	RH	Tie in	844-849 30-30	CC	P	ATOK	RH
3/9/2006	16:15	7537	OF	F	1-119-033-450-472	22	RH	Tie in	846-851 30-30	CC	P	ATOK	RH
3/9/2006	16:19	7537	OF	F	1-118-032-472-492	20	RH	Tie in	906-911 30-30	CC	P	ATOK	RH
3/11/2006	8:33	7537	OF	F	1-118-133-0-225	225	RH	E berm	735-740 30-30	CC	P	ATOK	DH
3/11/2006	8:36	75200022	BR	F	1-134-135-0-23	23	RH	C FLOOR	740-745 30-30	CC	P	ATOK	DH
3/11/2006	8:37	75200023	JP	F	1-136-137-0-23	23	RH	C FLOOR	745-750 30-30	CC	P	ATOK	RH
3/11/2006	8:40	7539	DL	F	1-137-138-186-247	61	RH	C FLOOR	814-819 30-30	CC	P	ATOK	DH
3/11/2006	8:44	75200022	BR	F	1-133-134-209-230	21	RH	C FLOOR	738-743 30-30	CC	P	ATOK	DH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way, St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

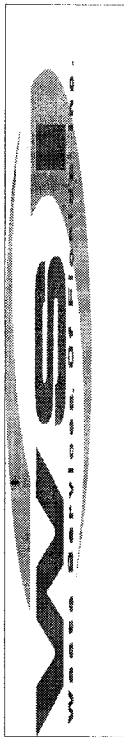
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/11/2006	8:45	75200023	JP	F	1-134-137-208-239	31	RH	E berm	811-816 30-30	CC	P	ATOK	DH
3/11/2006	8:45	7539	DL	F	1-136-138-0-186	186	RH	E berm	747-752 30-30	CC	P	ATOK	DH
3/11/2006	8:48	75200022	BR	F	1-133-135-0-209	209	RH	E berm	739-744 30-30	CC	P	ATOK	DH
3/11/2006	8:50	75200023	JP	F	1-143-144-0-276	276	RH	E berm	938-943 30-30	CC	P	ATOK	RH
3/11/2006	8:51	75200023	JP	F	1-135-137-189-208	19	RH	C FLOOR	743-748 30-30	CC	P	ATOK	RH
3/11/2006	8:53	75200023	JP	F	1-136-135-0-189	189	RH	E berm	743-748 30-32	CC	P	ATOK	DH
3/11/2006	9:22	7537	OF	F	1-139-140-0-23	23	RH	C FLOOR	919-924 30-30	CC	P	ATOK	RH
3/11/2006	9:30	75200022	BR	F	1-141-142-0-23	23	RH	C FLOOR	915-920 30-30	CC	P	ATOK	RH
3/11/2006	9:35	7537	OF	F	1-138-139-182-255	73	RH	C FLOOR	821-826 30-30	CC	P	ATOK	RH
3/11/2006	9:35	7539	DL	F	1-142-143-207-269	62	RH	E berm	934-939 30-30	CC	P	ATOK	RH
3/11/2006	9:38	75200022	BR	F	1-142-139-211-262	51	RH	C FLOOR	911-916 30-30	CC	P	ATOK	RH
3/11/2006	9:45	7537	OF	F	1-138-140-0-182	182	RH	E berm	918-923 30-30	CC	P	ATOK	RH
3/11/2006	9:47	7539	DL	F	1-141-143-207-0	207	RH	E berm	924-929 30-30	CC	P	ATOK	RH
3/11/2006	9:51	75200022	BR	F	1-139-141-178-211	33	RH	C FLOOR	914-919 30-30	CC	P	ATOK	RH
3/11/2006	9:51	75200022	BR	F	1-140-141-0-178	178	RH	E berm		CC	P	ATOK	RH
3/11/2006	10:20	75200022	BR	F	1-147-149-91-291	200	RH	C FLOOR	1106-1111 30-30	CC	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way, St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

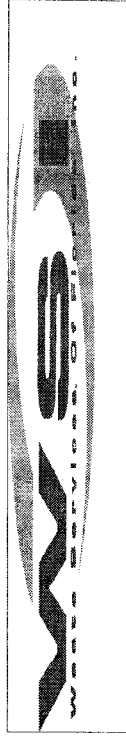
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30 5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/11/2006	10:21	75200023	JP	F	1-145-146-0-23	23	RH	C FLOOR	951-956 30-30	CC	P	ATOK	RH
3/11/2006	10:25	7537	OF	F	1-147-148-0-23	23	RH	C FLOOR	1124-1129 30-30	CC	P	ATOK	RH
3/11/2006	10:32	75200023	JP	F	1-144-145-183-283	100	RH	C FLOOR	946-951 30-30	CC	P	ATOK	RH
3/11/2006	10:33	7539	DL	F	1-147-145-291-181	110	RH	C FLOOR	1100-1105 30-30	CC	P	ATOK	RH
3/11/2006	10:40	7537	OF	F	1-133-031-492-514	22	RH	Tie in	736-741 30-30	CC	P	ATOK	RH
3/11/2006	10:43	7537	OF	F	1-133-030-514-518	4	RH	Tie in	patched	DL	P	VTOK	DH
3/11/2006	10:43	7537	OF	F	1-134-030-518-537	19	RH	Tie in	737-742 30-30	CC	P	ATOK	DH
3/11/2006	10:44	7537	OF	F	1-137-029-543-560	17	RH	Tie in	812-817 30-30	CC	P	ATOK	DH
3/11/2006	10:47	7537	OF	F	1-134-029-537-543	6	RH	Tie in	810-815 30-30	CC	P	ATOK	DH
3/11/2006	10:47	75200023	JP	F	1-144-146-0-183	183	RH	E berm	952-957 30-30	CC	P	ATOK	RH
3/11/2006	10:50	7537	OF	F	1-137-028-560-568	8	RH	Tie in	813-818 30-30	CC	P	ATOK	DH
3/11/2006	11:51	7537	OF	F	1-138-028-568-582	14	RH	Tie in	815-820 30-30	CC	P	ATOK	DH
3/11/2006	10:53	7537	OF	F	1-138-027-582-594	12	RH	Tie in	820-825 30-30	CC	P	ATOK	DH
3/11/2006	10:54	7539	DL	F	1-146-147-94-181	87	RH	E berm	1117-1122 30-30	CC	P	ATOK	RH
3/11/2006	10:55	7537	OF	F	1-139-027-594-605	9	RH	Tie in	822-827 30-30	CC	P	ATOK	RH
3/11/2006	10:57	7537	OF	F	1-139-026-605-619	14	RH	Tie in	910-915 30-30	CC	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

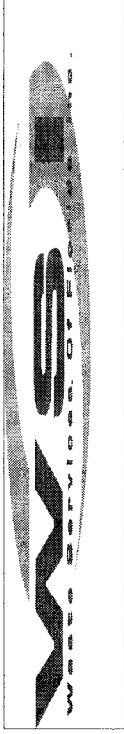
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/11/2006	10:58	75200022	BR	F	1-148-149-91-0	91	RH	E berm	1115-1120 30-30	CC	P	ATOK	RH
3/11/2006	11:00	7537	OF	F	1-142-26-619-628	9	RH	Tie in	912-917 30-30	CC	P	ATOK	RH
3/11/2006	11:02	7537	OF	F	1-142-25-628-645	17	RH	Tie in	935-940 30-30	CC	P	ATOK	RH
3/11/2006	11:03	7539	DL	F	1-146-148-0-94	94	RH	E berm	1114-1119 30-30	CC	P	ATOK	RH
3/11/2006	11:05	7537	OF	F	1-143-025-645-651	6	RH	Tie in	933-938 30-30	CC	P	ATOK	RH
3/11/2006	11:07	7537	OF	F	1-143-024-651-670	19	RH	Tie in	937-942 30-30	CC	P	ATOK	RH
3/11/2006	11:10	7537	OF	F	1-144-024-670-674	4	RH	Tie in	patched	DL	P	VTOK	RH
3/11/2006	11:11	7537	OF	F	1-144-023-674-695	21	RH	Tie in	945-950 30-30	CC	P	ATOK	RH
3/11/2006	11:15	7537	OF	F	1-145-022-696-718	22	RH	Tie in	947-952 30-30	CC	P	ATOK	DH
3/11/2006	11:15	7537	JP	F	1-145-023-695-696	1	RH	Tie in	patched	DL	P	VTOK	RH
3/11/2006	11:17	75200023	JP	F	1-151-152-0-23	23	RH	C FLOOR	1200-1205 30-30	CC	P	ATOK	RH
3/11/2006	11:19	7537	OF	F	1-145-021-718-719	1	RH	Tie in	patched	DL	P	VTOK	RH
3/11/2006	11:19	7537	OF	F	1-147-021-719-739	20	RH	Tie in	1103-1108 30-30	CC	P	ATOK	RH
3/11/2006	11:25	7539	DL	F	1-152-153-0-177	177	RH	E berm	1426-1431 30-30	CC	P	ATOK	RH
3/11/2006	11:26	75200023	JP	F	1-150-151-192-143	49	RH	C FLOOR	1156-1201 30-30	CC	P	ATOK	RH
3/11/2006	11:26	75200023	JP	F	1-150-152-0-143	143	RH	E berm	1156-1201 30-30	CC	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: FQ0852

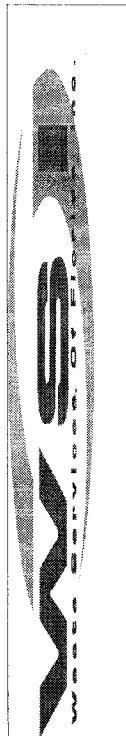
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30.5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/11/2006	14:15	7537	OF	F	1-128-129-91-145	54	RH	C FLOOR	1619-1624 30-30	CC	P	ATOK	RH
3/11/2006	15:51	7537	OF	F	1-127-039-316-322	6	RH	Tie in	750-755 30-30	CC	P	ATOK	RH
3/13/2006	8:27	75200022	BR	F	1-166-167-0-32	32	RH	S ICB	1134-1139 30-30	CC	P	ATOK	RH
3/13/2006	8:38	75200022	BR	F	1-165-166-0-32	32	DH	S ICB	1151-1156 30-30	CC	P	ATOK	RH
3/13/2006	8:40	75200023	JP	F	1-162-163-0-31	31	RH	S ICB	1427-1432 30-30	CC	P	ATOK	RH
3/13/2006	8:40	7537	OF	F	1-170-020-0-31	31	RH	S ICB	1101-1106 30-30	CC	P	ATOK	RH
3/13/2006	8:48	75200022	BR	F	1-164-165-0-31	31	RH	S ICB	1157-1202 30-30	CC	P	ATOK	RH
3/13/2006	8:49	7537	OF	F	1-169-170-0-32	32	RH	S ICB	1125-1130 30-30	CC	P	ATOK	RH
3/13/2006	8:50	75200023	JP	F	1-161-162-0-31	31	RH	S ICB	1432-1437 30-30	CC	P	ATOK	RH
3/13/2006	8:59	7537	OF	F	1-168-169-0-32	32	RH	S ICB	1127-1132 30-30	CC	P	ATOK	RH
3/13/2006	9:00	75200022	BR	F	1-163-164-0-31	31	RH	S ICB	1424-1429 30-30	CC	P	ATOK	RH
3/13/2006	9:06	75200023	JP	F	1-153-154-0-93	93	RH	E berm	1438-1443 30-30	CC	P	ATOK	RH
3/13/2006	9:10	7537	OF	F	1-167-168-0-32	32	RH	S ICB	1132-1137 30-30	CC	P	ATOK	RH
3/13/2006	9:24	75200022	BR	F	1-154-155-0-49	49	RH	E berm	1457-1502 30-30	CC	P	ATOK	RH
3/13/2006	9:25	7537	OF	F	1-160-161-0-31	31	RH	S ICB	1450-1455 30-30	CC	P	ATOK	RH
3/13/2006	9:29	75200022	BR	F	1-155-156-0-35	35	RH	E berm	1502-1507 30-30	CC	P	ATOK	RH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
Location: 1501 Omni Way St Cloud Florida
Description: Cell 2 Construction

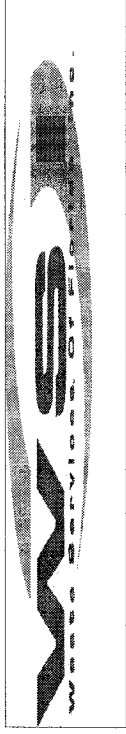
ProjNo: EQ0852

TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30 $\frac{1}{2}$ min Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam					Location		Nondestructive Test						
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam/No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/13/2006	9:34	75200023	JP	F	1-158-159-0-27	27	RH	S ICB	1458-1503 30-30	CC	P	ATOK	RH
3/13/2006	9:37	7537	OF	F	1-159-160-0-30	30	RH	S ICB	1454-1459 30-30	CC	P	ATOK	RH
3/13/2006	9:39	75200022	BR	F	1-156-157-0-30	30	RH	E berm	1516-1521 30-30	CC	P	ATOK	RH
3/13/2006	10:07	75200022	BR	F	1-147-170-7-15	8	RH	Tie in	1104-1109 30-32	CC	P	ATOK	RH
3/13/2006	10:11	75200022	BR	F	1-149-170-15-23	8	RH	Tie in	1107-1112 30-30	CC	P	ATOK	RH
3/13/2006	10:14	75200022	BR	F	1-149-168-46-69	23	RH	Tie in	1128-1133 30-30	CC	P	ATOK	RH
3/13/2006	10:17	75200022	BR	F	1-150-167-69-93	24	RH	Tie in	1131-1136 30-30	CC	P	ATOK	RH
3/13/2006	10:21	75200022	BR	F	1-150-166-93-117	24	RH	Tie in	1135-1140 30-30	CC	P	ATOK	RH
3/13/2006	10:24	75200022	BR	F	1-150-165-117-123	6	RH	Tie in	1150-1155 30-30	CC	P	ATOK	RH
3/13/2006	10:24	75200022	BR	F	1-151-165-123-140	17	RH	Tie in	1155-1200 30-30	CC	P	ATOK	RH
3/13/2006	10:27	75200022	BR	F	1-151-164-140-164	24	RH	Tie in	1158-1203 30-30	CC	P	ATOK	RH
3/13/2006	10:31	75200022	BR	F	1-163-151-164-177	13	RH	Tie in	1423-1428 30-30	CC	P	ATOK	RH
3/13/2006	10:33	75200022	BR	F	1-163-153-177-186	9	RH	Tie in	1425-1430 30-30	CC	P	ATOK	RH
3/13/2006	10:34	75200022	BR	F	1-162-153-188-210	22	RH	Tie in	1428-1432 30-30	CC	P	ATOK	RH
3/13/2006	10:38	75200022	BR	F	1-161-153-210-230	20	RH	Tie in	1433-1438 30-30	CC	P	ATOK	RH
3/13/2006	10:42	75200022	BR	F	1-160-154-233-256	23	RH	Tie in	1451-1456 30-30	CC	P	ATOK	RH



Production Seam Log

Project: I.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

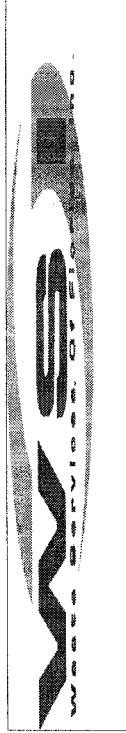
TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30 5 min

Vacuum Box: 5 lbs. 20 secs.

Primary / Secondary: Secondary Series: 1

Production Seam					Location			Nondestructive Test					
Date	Time	Mach. ID	Oper. ID	Ext/ Fus:	Seam No Series-Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail	Oper.	Result	Action	QA ID
3/13/2006	10:42	75200022	BR	F	1-161-154-230-233	3	RH	Tie in	patched	DL	P	VTOK	DH
3/13/2006	10:45	75200022	BR	F	1-159-154-256-278	22	RH	Tie in	1455-1500 30-30	CC	P	ATOK	RH
3/13/2006	10:49	75200022	BR	F	1-159-155-278-280	2	RH	Tie in	patched	DL	P	VTOK	RH
3/13/2006	10:52	75200022	BR	F	1-158-156-301-308	7	RH	Tie in	1503-1508 30-30	CC	P	ATOK	RH
3/13/2006	10:53	75200022	BR	F	1-158-157-308-313	5	RH	Tie in	1515-1520 30-30	CC	P	ATOK	RH
3/13/2006	11:01	75200022	BR	F	1-149-169-23-46	23	RH	Tie in	1126-1131 30-30	CC	P	ATOK	RH
3/13/2006	11:26	75200022	BR	F	1-149-150-240-0	240	RH	C FLOOR	1130-1135 30-30	CC	P	ATOK	RH
3/20/2006	10:43	75200023	JP	F	1-004-021-37-40	3	RH	S TIE IN	PATCHED	CC	P	VTOK	RH
3/20/2006	14:03	75200023	JP	F	1-001-021-0-37	37	RH	S TIE IN	2/18/06 30-30	CC	P	ATOK	DH
3/20/2006	14:06	75200023	JP	F	1-005-021-40-63	23	RH	S TIE IN	836-841 30-30	CC	P	ATOK	DH
3/20/2006	14:10	75200023	JP	F	1-006-021-63-85	22	RH	S TIE IN	838-843 30-30	CC	P	ATOK	DH
3/20/2006	14:46	75200023	JP	F	1-015-021-276-299	23	RH	S TIE IN	2/18/06 30-30	CC	P	ATOK	DH



Production Seam Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: FQ0852 TaskNo: 01

Material Type gml : 1 Specifications: Seam Pressure: 25-30 5 min Vacuum Box: 5 lbs. 20 secs.

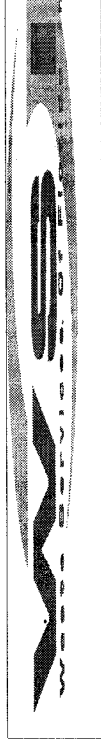
Primary / Secondary: Secondary Series: 1

Date	Production Seam			Location			Nondestructive Test		
	Time	Mach. ID	Oper. ID	Ext/ Fus:	SeamNo Series=Seam1-Seam2-Begin-End	Length (ft.)	QA ID	Location	Detail

Total Length Fusion: 27033

Total Length Extrusion: 1215

Comments: 1-001-021-0-37:S TIE IN; 1-004-021-37-40:S TIE IN (PATCHED); 1-005-021-40-63:S TIE IN; 1-006-021-63-85:S TIE IN; 1-007-021-85-108:S TIE IN; 1-008-021-108-131:S TIE IN; 1-009-021-131-154:S TIE IN; 1-010-021-154-176:S TIE IN; 1-011-021-176-209:S TIE IN; 1-012-021-209-231:S TIE IN; 1-013-021-231-254:S TIE IN; 1-014-015-33-0:S ICB; 1-015-016-32-0:S ICB; 1-016-017-32-0:S ICB; 1-017-018-32-0:S ICB; 1-018-019-32-0:S ICB; 1-019-020-0-31:SE ICB; 1-019-021-366-389:S TIE IN; 1-020-021-389-411:S TIE IN; 1-021-022-0-410:S FLOOR / W BERM; 1-022-023-0-407:S FLOOR / W BERM; 1-023-024-0-94:S FLOOR / W BERM; 1-024-025-0-407:S FLOOR / W BERM AREA; 1-025-026-0-407:S FLOOR / W BERM; 1-026-EXT-153-176:EXT=EXISTING LINER TIE IN TO CELL 1; 1-026-027-0-75:S FLOOR / W BERM; 1-026-027-75-90:MATERIAL WAS DAMAGED AT SEAM; 1-026-027-90-407:S FLOOR / W BERM; 1-027-EXT-176-196:EXT=EXISTING LINER TIE IN TO CELL 1; 1-027-028-0-407:S FLOOR / W BERM; 1-028-EXT-196-221:EXT=EXISTING LINER TIE IN TO CELL 1; 1-028-029-0-407:S FLOOR / W BERM; 1-029-EXT-221-242:EXT=EXISTING LINER TIE IN TO CELL 1; 1-042-043-0-37:HEATING ELEMENT WENT OUT ON MACH. (8:00 AM); 1-042-043-37-405:NEW WEDGE USED IN PLACE OF 7547; 1-042-EXT-512-534:WTS=WEST TIE IN SEAM; 1-065-076-142-147:patched-RS-155; 1-093-099-61-86:spark tested; 1-093-100-45-61:spark tested; 1-094-099-86-92:spark tested; 1-095-099-86-89:spark tested; 1-096-099-89-111:spark tested; 1-097-099-111-115:spark tested; 1-098-099-115-123:spark tested; 1-100-099-35-50:spark tested



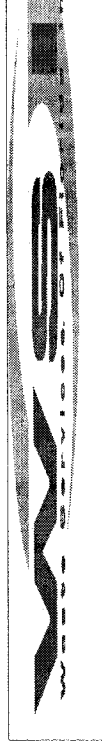
Repair Summary Log

Primary / Secondary: Secondary										Series: 1									
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing						
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action		
2/18/2006	1-0001		P	1/2/3/4		14'FSAT		2	2	0	74300002	OF	DH	2/20/2006	DL	P	VTOK	RH	
2/18/2006	1-0002		P	11/12		7' FSAT		2	2	0	74300002	OF	RH	2/20/2006	DL	P	VTOK	DH	
2/18/2006	1-0003	1-001	P	14/15		15' FSAT		6	3	0	74300002	OF	RH	2/20/2006	DL	P	VTOK	DH	
2/18/2006	1-0004		P	15/16		65' FWTS		2	2	0	74300002	OF	RH	2/20/2006	DL	P	VTOK	DH	
2/18/2006	1-0005		P	19/20/21		80' FWTS		2	2	0	74300002	OF	RH	2/20/2006	DL	P	VTOK	DH	
2/18/2006	1-0006	1-002	P	19/21		68' FWTS		6	3	0	74300002	OF	RH	2/20/2006	DL	P	VTOK	DH	
2/18/2006	1-0007		P	18/19/21		57' FWTS		2	2	0	74300002	OF	RH	2/18/2006	DL	P	VTOK	DH	
2/18/2006	1-0008		P	17/18/21		34' FWTS		2	2	0	74300002	OF	RH	2/18/2006	DL	P	VTOK	DH	
2/18/2006	1-0009		P	16/17/21		31' FWTS		2	2	0	74300002	OF	RH	2/20/2006	DL	P	VTOK	RH	
2/18/2006	1-0010		P	15/16/21		28' FWTS		2	2	0	74300002	OF	RH	2/20/2006	DL	P	VTOK	RH	
2/18/2006	1-0011		P	14/15/21		26' FWTS		2	2	0	74300002	OF	RH	2/20/2006	DL	P	VTOK	RH	
2/18/2006	1-0012		P	13/14/21		24' FWTS		2	2	0	74300002	OF	RH	2/20/2006	DL	P	VTOK	RH	
2/18/2006	1-0013		P	12/13/21		21' FWTS		2	2	0	74300002	OF	RH	2/20/2006	DL	P	VTOK	RH	
2/18/2006	1-0014		P	11/12/21		19' FWTS		2	2	0	74300002	OF	RH	2/20/2006	DL	P	VTOK	RH	
2/18/2006	1-0015		P	10/11/21		17' FWTS		2	2	0	74300002	OF	RH	2/20/2006	DL	P	VTOK	RH	
2/18/2006	1-0016		P	9/10/21		15' FWTS		2	2	0	74300002	OF	RH	2/20/2006	DL	P	VTOK	RH	
2/18/2006	1-0017		P	8/9/21		13' FWTS		2	2	0	74300002	OF	RH	2/20/2006	DL	P	VTOK	DH	



Repair Summary Log

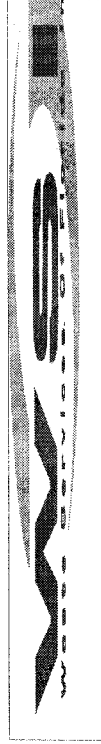
Primary / Secondary: Secondary Series: 1																		
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
2/18/2006	1-0018		P	7/8/21		108' FWTS		2	2	0	74300002	OF	RH	2/20/2006	DL	P	VTOK	RH
2/18/2006	1-0019		P	6/7/21		85' FWTS		2	2	0	74300002	OF	RH	2/20/2006	DL	P	VTOK	RH
2/18/2006	1-0020		P	5/6/21		63' FWTS		2	2	0	74300002	OF	RH	2/20/2006	DL	P	VTOK	DH
2/18/2006	1-0021		P	1/4/5/21		37' FWTS		3	3	0	74300002	OF	RH	2/20/2006	DL	P	VTOK	DH
2/18/2006	1-0022		P	1/2/EXT		16' FSAT		2	2	0	74300002	OF	RH	2/20/2006	DL	P	VTOK	RH
2/18/2006	1-0023		P	1/21/EXT		37' FSAT		2	2	0	74300014	JP	RH	2/20/2006	DL	P	VTOK	RH
2/18/2006	1-0024		P	21/22/EXT		62' FSAT		2	2	0	74300014	JP	RH	2/20/2006	DL	P	VTOK	RH
2/18/2006	1-0025		P	22/23/EXT		84' FSAT		2	2	0	74300014	JP	RH	2/20/2006	DL	P	VTOK	RH
2/18/2006	1-0026	1-003	P	22/23		66' FWTS		6	3	0	74300014	JP	RH	2/20/2006	DL	P	VTOK	DH
2/18/2006	1-0027		P	21/22		83' FWTS		2	2	0	74300014	JP	RH	2/20/2006	DL	P	VTOK	DH
2/18/2006	1-0028	1-004	P	23/24		50' FWTS		2	2	0	74300014	JP	RH	2/20/2006	DL	P	VTOK	RH
2/18/2006	1-0029		P	23/24		100' FWTS		2	2	0	74300014	JP	RH	2/20/2006	DL	P	VTOK	RH
2/18/2006	1-0030		P	26/27		82' FWTS		2	2	0	74300014	JP	DH	2/20/2006	DL	P	VTOK	RH
2/18/2006	1-0031		P	25/26		90' FWTS		2	2	0	74300014	JP	RH	2/20/2006	DL	P	VTOK	RH
2/18/2006	1-0032		P	26/27		73' FWTS		2	2	0	74300014	JP	RH	2/20/2006	DL	P	VTOK	RH
2/18/2006	1-0033		P	22/EXT		72' FSAT		2	2	0	74300014	JP	RH	2/20/2006	DL	P	VTOK	RH
2/18/2006	1-0034		P	23/EXT		96' FSAT		2	2	0	74300014	JP	RH	2/20/2006	DL	P	VTOK	RH



Repair Summary Log

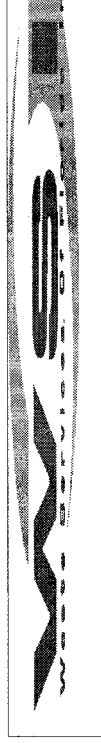
Series: 1

Primary / Secondary:				Secondary		Series: 1												
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				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
2/18/2006	1-0035		P	23/24/EXT		107' FSAT		2	2	0	74300014	JP	RH	2/20/2006	DL	p	VTOK	RH
2/18/2006	1-0036		P	24/EXT		115' FSAT		3	2	0	74300014	JP	RH	2/20/2006	DL	p	VTOK	RH
2/18/2006	1-0037		P	24/25/EXT		130' FSAT		2	6	0	74300014	JP	RH	2/20/2006	DL	p	VTOK	RH
2/18/2006	1-0038		P	25/EXT		138' FSAT		6	3	0	74300014	JP	RH	2/20/2006	DL	p	VTOK	RH
2/18/2006	1-0039		P	25/26/EXT		153' FSAT		2	2	0	74300014	JP	RH	2/20/2006	DL	p	VTOK	RH
2/18/2006	1-0040		P	26/EXT		161' FSAT		2	2	0	74300014	JP	RH	2/20/2006	DL	p	VTOK	RH
2/18/2006	1-0041		P	26/27/EXT		173' FSAT		2	2	0	74300014	JP	RH	2/20/2006	DL	p	VTOK	RH
2/18/2006	1-0042		P	27/EXT		186' FSAT		2	2	0	74300014	JP	RH	2/20/2006	DL	p	VTOK	RH
2/18/2006	1-0043		P	27/28/EXT		196' FSAT		2	2	0	74300014	JP	RH	2/20/2006	DL	p	VTOK	RH
2/18/2006	1-0044		P	28/29/EXT		221' FSAT		2	2	0	74300014	JP	RH	2/20/2006	DL	p	VTOK	RH
2/18/2006	1-0045		P	29/EXT		230' FSAT		2	2	0	74300014	JP	RH	2/20/2006	DL	p	VTOK	RH
2/20/2006	1-0046		P		26	4'E	1'S	2	2	0	74300014	JP	RH	2/20/2006	DL	p	VTOK	RH
2/20/2006	1-0047		P		27	4'E	1'S	2	2	0	74300014	JP	RH	2/20/2006	DL	p	VTOK	RH
2/20/2006	1-0048		P		27	11'E	5'S	2	2	0	74300014	JP	RH	2/20/2006	DL	p	VTOK	RH
2/20/2006	1-0049	1-007	P	27/28		48' FWTS		6	3	0	74300014	JP	RH	2/20/2006	DL	p	VTOK	RH
2/20/2006	1-0050	1-008	P	28/29		50' FWTS		6	3	0	74300014	JP	RH	2/20/2006	DL	p	VTOK	RH
2/20/2006	1-0051	1-005	P	24/25		150' FWTS		6	3	0	74300014	JP	RH	2/20/2006	DL	p	VTOK	RH



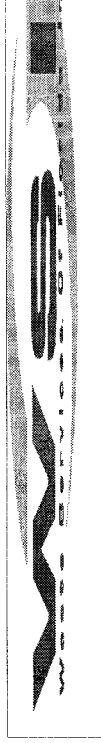
Repair Summary Log

Primary / Secondary: Secondary Series: 1 1																		
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				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
2/20/2006	1-0052	1-006	P	25/26		350' FWTS		6	3	0	74300014	JP	RH	2/20/2006	DL	p	VTOK	RH
2/20/2006	1-0053		P		24	31' E	4' S	2	2	0	74300014	JP	RH	2/20/2006	DL	p	VTOK	RH
2/20/2006	1-0054		P		27	94'E	5' S	2	2	0	74300014	JP	RH	2/20/2006	DL	p	VTOK	RH
2/20/2006	1-0055		P	21/22		92' FWTS		3	2	0	74300014	JP	RH	2/20/2006	DL	p	VTOK	RH
2/23/2006	1-0056		P	32/EXT		56' FSAT		4	2	0	74300002	LS	RH	2/25/2006	DL	p	VTOK	RH
2/23/2006	1-0057		P	38/39/EXT		450 FSAT		3	2	0	74300002	AN	RH	2/25/2006	DL	p	VTOK	RH
2/23/2006	1-0058		P		35	1' EAST 2' SOUTH		2	2	0	74300002	LS	DH	2/25/2006	DL	p	VTOK	RH
2/24/2006	1-0059		P	45/46/EXT		504' FSAT		2	2	0	74300014	LS	DH	2/25/2006	DL	p	VTOK	RH
2/24/2006	1-0060		P	45/EXT		6' SOUTH		2	2	0	74300014	LS	DH	2/25/2006	DL	p	VTOK	RH
2/24/2006	1-0061		P	44/45/EXT		585' FSAT		2	2	0	74300014	LS	DH	2/25/2006	DL	p	VTOK	RH
2/24/2006	1-0062		P	43/44/EXT		563' FSAT		3	2	0	74300014	LS	DH	2/25/2006	DL	p	VTOK	RH
2/24/2006	1-0063		P	42/43/EXT		541' FSAT		3	2	0	74300014	LS	DH	2/25/2006	DL	p	VTOK	RH
2/24/2006	1-0064		P	41/42/ EXT		519' FSAT		6	3	0	74300014	LS	DH	2/25/2006	DL	p	VTOK	RH
2/24/2006	1-0065		P	29/30/EXT		247' FSAT		3	2	0	74300002	JP	DH	2/25/2006	DL	p	VTOK	RH
2/24/2006	1-0066		P	30 / EXT		0' NORTH		2	2	0	74300002	JP	DH	2/25/2006	DL	p	VTOK	RH
2/24/2006	1-0067		P	30/31/EXT		261' FSAT		2	2	0	74300002	JP	DH	2/25/2006	DL	p	VTOK	RH
2/24/2006	1-0068		P		31	1' EAST 0' NORTH		2	2	0	74300002	JP	DH	2/25/2006	DL	p	VTOK	RH



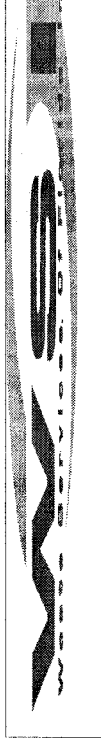
Repair Summary Log

Primary / Secondary: Secondary										Series: 1								
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				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
2/24/2006	1-0069		P	31/32/EXT		289' FSAT		3	2	0	74300002	JP	DH	2/25/2006	DL	p	VTOK	RH
2/24/2006	1-0070	1-010	P	31/32		50' FWTS		6	2	0	74300014	OF	DH	2/25/2006	DL	p	VTOK	RH
2/24/2006	1-0071		P	42/43		37' FWTS		4	2	0	74300014	OF	DH	2/25/2006	DL	p	VTOK	RH
2/24/2006	1-0072		P	32/33/EXT		310' FSAT		2	2	0	74300014	OF	DH	2/25/2006	DL	p	VTOK	RH
2/24/2006	1-0073		P	33/EXT		318' FSAT		2	2	0	74300002	JP	DH	2/28/2006	DL	p	VTOK	RH
2/24/2006	1-0074		P	33/34/EXT		335' FSAT		2	2	0	74300002	JP	DH	2/28/2006	DL	p	VTOK	RH
2/24/2006	1-0075	1-018	P	34/EXT		338' FSAT		2	2	0	74300002	JP	DH	2/28/2006	DL	p	VTOK	RH
2/24/2006	1-0076		P	34/35/EXT		358' FSAT		2	2	0	74300002	JP	DH	2/28/2006	DL	p	VTOK	RH
2/24/2006	1-0077		P	35/EXT		363' FSAT		2	2	0	74300002	JP	DH	2/28/2006	DL	p	VTOK	RH
2/24/2006	1-0078		P	35/36/EXT		361' FSAT		2	2	0*	74300002	JP	DH	2/28/2006	DL	p	VTOK	RH
2/24/2006	1-0079		P	36/EXT		386' FSAT		3	2	0	74300002	JP	DH	2/28/2006	DL	p	VTOK	RH
2/24/2006	1-0080		P	36/37/EXT		404' FSAT		3	2	0	74300002	JP	DH	2/28/2006	DL	p	VTOK	RH
2/24/2006	1-0081		P	37/38/EXT		426' FSAT		3	2	0	74300002	JP	DH	2/28/2006	DL	p	VTOK	RH
2/24/2006	1-0082		P	39/40/EXT		448' FSAT		2	2	0	74300002	JP	DH	2/28/2006	DL	p	VTOK	RH
2/24/2006	1-0083		P	40/41/EXT		471' FSAT		7	2	0	74300002	JP	DH	2/28/2006	DL	p	VTOK	RH
2/24/2006	1-0084		P		35	8' FWTS	10' FSAT	2	2	0	74300002	JP	DH	2/28/2006	DL	p	VTOK	RH
2/24/2006	1-0085	1-009	P	29/30		350' FWTS		6	2	0	74300002	JP	DH	2/28/2006	DL	p	VTOK	RH



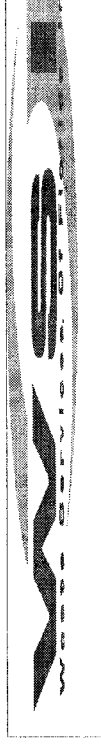
Repair Summary Log

Primary / Secondary:				Secondary				Series: 1										
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				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
2/25/2006	1-0086	1-021	P	42/43		28'FWTS		6	2	0	74300002	JP	DH	2/28/2006	DL	p	VTOK	RH
2/25/2006	1-0087	1-019	P	40/41		50' FWTS		6	2	0	74300002	JP	DH	2/28/2006	DL	p	VTOK	RH
2/25/2006	1-0088	1-014	P	35/36		50' FWTS		6	2	0	74300014	OF	DH	2/28/2006	DL	p	VTOK	RH
2/25/2006	1-0089	1-020	P	41/42		100' FWTS		6	2	0	74300014	OF	DH	2/28/2006	DL	p	VTOK	RH
2/25/2006	1-0090	1-022	P	43/44		150' FWTS		6	2	0	74300014	OF	DH	2/28/2006	DL	p	VTOK	RH
2/25/2006	1-0091	1-015	P	37/38		149' FWTS		6	2	0	74300014	OF	DH	2/28/2006	DL	p	VTOK	RH
2/25/2006	1-0092	1-011	P	32/33		149' FWTS		6	2	0	74300014	OF	DH	2/28/2006	DL	p	VTOK	RH
2/25/2006	1-0093	1-023	P	44/45		150' FWTS		0	0	0	74300014	OF	DH	2/28/2006	DL	p	VTOK	RH
2/25/2006	1-0094	1-024	P	45/46		150' FWTS		0	0	0	74300014	OF	DH	2/28/2006	DL	p	VTOK	RH
2/25/2006	1-0095	1-016	P	38/39		150' FWTS		0	0	0	74300014	OF	DH	2/28/2006	DL	p	VTOK	RH
2/25/2006	1-0096		P		37	149' FWTS2' NORTH		0	0	0	74300014	OF	DH	2/28/2006	DL	p	VTOK	RH
2/25/2006	1-0097	1-012	P	33/34		152' FWTS		0	0	0	74300014	OF	DH	2/28/2006	DL	p	VTOK	RH
2/25/2006	1-0098		P		38	119' FWTS40' NORTH		2	2	0	74300014	OF	DH	2/28/2006	DL	p	VTOK	RH
2/25/2006	1-0099		P		41	191' FWTS3' NORTH		3	2	0	74300014	OF	DH	2/28/2006	DL	p	VTOK	RH
2/25/2006	1-0100		P		42	171' FWTS0' NORTH		5	2	0	74300014	OF	DH	2/28/2006	DL	p	VTOK	RH
2/25/2006	1-0101	1-017	P	39/40		150' FWTS		2	2	0	74300014	OF	DH	2/28/2006	DL	p	VTOK	RH
2/25/2006	1-0102		P	37/38		168' FWTS		2	2	0	74300014	OF	DH	2/28/2006	DL	p	VTOK	RH



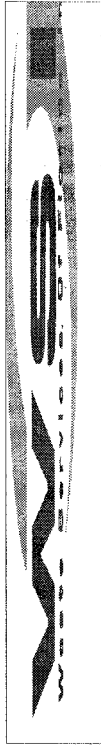
Repair Summary Log

Primary / Secondary: Secondary										Series: 1								
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
2/25/2006	1-0103	1-013	P	34/35		352' FWTS		6	2	0	74300014	OF	DH	2/28/2006	DL	P	VTOK	RH
2/27/2006	1-0104		P	46/47/EXT		536' FSAT		2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	RH
2/27/2006	1-0105		P	47/48/EXT		558' FSAT		2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	RH
2/27/2006	1-0106		P	48/49/EXT		580' FSAT		2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
2/27/2006	1-0107		P	49/50/EXT		702' FSAT		2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
2/27/2006	1-0108		P	50/51/EXT		722' FSAT		2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
2/27/2006	1-0109		P	51/52/EXT		744' FSAT		2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
2/27/2006	1-0110		P	52/53/EXT		766' FSAT		2	2	0	74300002	JP	DH	3/1/2006	DL	P	VTOK	DH
2/27/2006	1-0111		P	53/54/EXT		788' FSAT		2	2	0	74300002	JP	DH	3/1/2006	DL	P	VTOK	DH
2/27/2006	1-0112		P	54/56/EXT		802' FSAT		2	2	0	74300002	JP	DH	3/1/2006	DL	P	VTOK	RH
2/27/2006	1-0113		P	56/57/EXT		820' FSAT		2	2	0	74300002	JP	DH	3/1/2006	DL	P	VTOK	DH
2/27/2006	1-0114		P	57/60/EXT		843' FSAT		3	3	0	74300002	JP	DH	3/1/2006	DL	P	VTOK	DH
2/27/2006	1-0115		P	57/58/59		13' FWTS		2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
2/27/2006	1-0116		P	56/57/58		13' FWTS		2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
2/27/2006	1-0117		P	55/56/58		288' FWTS		2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
2/27/2006	1-0118		P	55/58		304' FWTS		2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
2/27/2006	1-0119		P	54/55/56		288' FWTS		2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH



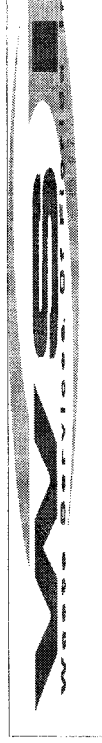
Repair Summary Log

Primary / Secondary:				Secondary				Series: 1				1						
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
3/1/2006	1-0120		C	57/60		53-82		29	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	1-0122	1-029	P	51/52		50' FWTS		6	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	1-0123	1-025	P	46/47		50' FWTS		6	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	1-0124	1-032	P	57/58		13' FWTS	11' N	6	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	1-0125	1-026	P	47/48		150' FWTS		6	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	1-0126	1-030	P	52/53		49' FWTS		6	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	1-0127	1-033	P	58/59		50' FWTS		6	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	1-0128		P		59	72' FWTS	13' N	3	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	1-0129		P	56/58		80' FWTS		7	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	1-0130	1-027	P	48/49		150' FWTS		6	2	0	74300014	EC	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	1-0131	1-031	P	53/54		150' FWTS		6	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	1-0132		P		59	140' FWTS	6' N	2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	1-0133		P		59	143' FWTS	16' N	2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	1-0134		P		59	146' FWTS	12' N	2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	1-0135		P		59	147' FWTS	4' N	3	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	RH
3/1/2006	1-0136		P		59	156' FWTS	13' N	2	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH
3/1/2006	1-0137		P		59	164' FWTS	13' N	3	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH



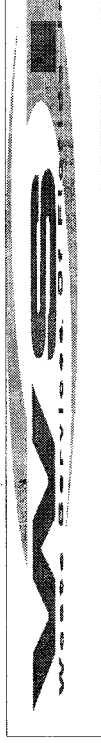
Repair Summary Log

Primary / Secondary: Secondary										Series: 1									
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing						
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID	
3/1/2006	1-0138		P		59	165' FWTS	12' N	3	2	0	74300014	LS	3/1/2006	DL	P	VTOK	DH		
3/1/2006	1-0139		P		59	177' FWTS	3' N	2	2	0	74300014	LS	3/1/2006	DL	P	VTOK	RH		
3/1/2006	1-0140	1-028	P	49/50		150' FWTS		6	2	0	74300014	LS	3/1/2006	DL	P	VTOK	DH		
3/1/2006	1-0141		P		50	141' FWTS	13' N	2	2	0	74300014	EC	3/1/2006	DL	P	VTOK	DH		
3/1/2006	1-0142	1-034	P	57-EXT		843' Fsat		6	2		74300014	LS	3/1/2006	DL	P	VTOK	DH		
3/3/2006	1-0143		P		41	216' FWTS		2	2		74300002	JP	3/3/2006	DL	P	VTOK	DH		
3/3/2006	1-0144		C	57-60-EXT		795-885		66	2		74300002	JP	3/3/2006	DL	P	VTOK	RH		
3/3/2006	1-0145	1-034B	P	56-EXT		826' FSAT		6	2		74300002	JP	3/3/2006	DL	P	VTOK	DH		
3/4/2006	1-0153		P	59-60-61		75' FNAT		2	2		74300014	OF	3/4/2006	DL	P	VTOK	RH		
3/4/2006	1-0154		P	65-74-75		75' FNAT		6	2		74300014	OF	3/4/2006	DL	P	VTOK	RH		
3/4/2006	1-0156		P	64/77/76		75' FNAT		2	2	0	74300014	OF	3/4/2006	DL	P	VTOK	DH		
3/4/2006	1-0157		P	64/77/78		75' FNAT		3	2	0	74300014	OF	3/4/2006	DL	P	ATOK	RH		
3/4/2006	1-0158		P	62-64-78-79		75' FNAT		9	2		74300014	OF	3/4/2006	DL	P	VTOK	RH		
3/4/2006	1-0161		P		61-81-82	75' FNAT		3	2		74300014	OF	3/4/2006	DL	P	VTOK	RH		
3/4/2006	1-0159		P	62-79-80		75' FNAT		2	2		74300014	OF	3/4/2006	DL	P	VTOK	RH		
3/4/2006	1-0162		P	60-61-EXT		905' FSAT		3	2		74300014	OF	3/4/2006	DL	P	VTOK	RH		
3/4/2006	1-0160		P	61-62-80-81		75' FNAT		3	2		74300014	OF	3/4/2006	DL	P	VTOK	RH		



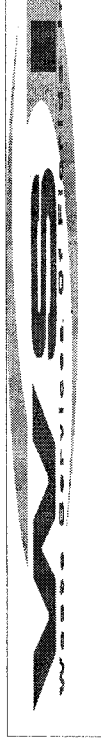
Repair Summary Log

Primary / Secondary:										Secondary										Series: 1									
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing																
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action												
3/4/2006	1-0163		P	61-63-EXT		906 FSAT			3	2		74300014	OF	RH	3/4/2006	DL	P	VTOK	RH										
3/4/2006	1-0165		P	63-64		29 FWTS			3	2		74300014	LS	RH	3/4/2006	DL	P	VTOK	RH										
3/4/2006	1-0146		P	68-69-70-71		21 FNAT			3	2		74300014	OF	DH	3/4/2006	DL	P	VTOK	RH										
3/4/2006	1-0147		P	67-68-71-72		40 FNAT			5	2		74300014	OF	RH	3/4/2006	DL	P	VTOK	DH										
3/4/2006	1-0148		P	66-67-72		46 FNAT			2	2		74300014	OF	DH	3/4/2006	DL	P	VTOK	DH										
3/4/2006	1-0149		P	66-72-73		55 FNAT			2	2		74300014	OF	RH	3/4/2006	DL	P	VTOK	RH										
3/4/2006	1-0150		P	65-66-73-74		53 FNAT			4	2		74300014	OF	RH	3/4/2006	DL	P	VTOK	DH										
3/4/2006	1-0151		P	62-63-64		48 FWTS			2	2		74300014	OF	RH	3/4/2006	DL	P	VTOK	RH										
3/4/2006	1-0152		P	61-62-63		48 FWTS			2	2		74300014	OF	RH	3/4/2006	DL	P	VTOK	RH										
3/6/2006	1-0164		P	63/64/EXT		930 FSAT			3	2	0	74300014	LS	DH	3/8/2006	DL	P	VTOK	RH										
3/6/2006	1-0167		P	65-EXT		970 EXT			2	2		74300014	LS	RH	3/6/2006	DL	P	VTOK	RH										
3/6/2006	1-0168		P	65-66-EXT		970 FSAT			2	2		74300014	LS	DH	3/8/2006	DL	P	VTOK	RH										
3/6/2006	1-0173	1-035	P	61-62		100 FWTS			6	2		74300014	LS	RH	3/8/2006	DL	P	VTOK	RH										
3/6/2006	1-0166		P	64-65-EXT		950 FSAT			3	2		74300014	LS	RH	3/8/2006	DL	P	VTOK	RH										
3/6/2006	1-0169		P	66-67-EXT		995 FSAT			2	2		74300014	LS	RH	3/8/2006	DL	P	VTOK	RH										
3/6/2006	1-0170		P		57-68-EXT	1015 FSAT			2	2		74300014	LS	RH	3/8/2006	DL	P	VTOK	RH										
3/6/2006	1-0179		P	83-84-85		60 FNAT			2	2		74300014	LS	RH	3/8/2006	JR	P	VTOK	RH										



Repair Summary Log

Primary / Secondary: Secondary										Series: 1								
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		Non-Destructive Testing						
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID	Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID	
3/6/2006	1-0171		P	68-69-70-EXT		035 FSAT		2	2		74300014	LS	DH	3/8/2006	DL	P	VTOK	RH
3/6/2006	1-0172		P	66-67		31 FWTS		6	2		74300014	LS	RH	3/8/2006	DL	P	VTOK	RH
3/6/2006	1-0175	1-038	P	82-83		55 FNAT		6	2		74300014	LS	RH	3/8/2006	DL	P	VTOK	RH
3/6/2006	1-0174	1-039	P	76-77		56 FNAT		6	2		74300014	LS	RH	3/8/2006	DL	P	VTOK	RH
3/6/2006	1-0176		P	61-81-82		75 FNAT		2	2		74300014	LS	RH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0177		P	59-61-83		75 FNAT		2	2		74300014	LS	RH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0178		P	59-83-85		75 FNAT		2	2		74300014	LS	RH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0180		P	57-85		332 FWTS		2	2		74300014	LS	RH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0181		P	84-85-86		61 FNAT		3	2		74300014	LS	RH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0182		P	59-85-86		75 FNAT		3	2		74300014	LS	RH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0189		P	92-93		7 FEAT		3	2		74300002	JP	RH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0183		P	88-89		54 FNAT		13	2		74300014	LS	RH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0184		P	90-91-92		49 FEAT		2	2		74300002	JP	RH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0186		P	88-89		2 FNAT		2	2		74300014	LS	RH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0185		P	87-88		1 FNAT		2	2		74300014	LS	RH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0187		P	90-93		1 FEAT		2	2		74300014	LS	RH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0188		P	90-92-93		27 FEAT		2	2		74300002	JP	RH	3/8/2006	JR	P	VTOK	RH

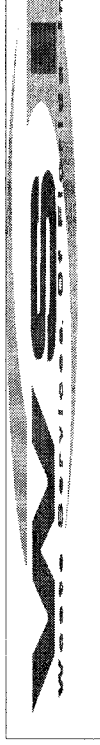


Repair Summary Log

Primary / Secondary:				Secondary										Series: 1				
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
3/6/2006	1-0190		P	93-94		2 FEAT		3	2		74300002	JP	RH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0192		P	97-98		2 FNAT		3	2		74300002	JP	DH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0191		P	95-96		2 FEAT		2	2		74300002	JP	RH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0193		P	98-100		2 FEAT		3	2		74300002	JP	RH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0194		P	100-101-103		47 FEAT		6	2		74300002	JP	DH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0195		P	92-93-101-102		40 FNST		2	2		74300002	JP	RH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0196		P	91-92-101-102		40 FNST		3	2		74300002	JP	RH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0197		P	101-102-103		36 FEAT		2	2		74300002	JP	RH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0198		P	101-102		7 FNAT		2	2		74300002	JP	DH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0199	1-041	P	102-103		39 FEAT		6	2		74300002	JP	DH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0200		P	88-89-104		75 FNAT		6	2		74300002	JP	DH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0203		P	55-58-104		75 FNAT		2	2		74300002	JP	RH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0204		P	54-55-104		75 FNAT		2	2		74300002	JP	DH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0201		P	87-88-104		75 FNAT		2	2		74300002	JP	RH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0202		P	58-59-86-87-104		75 FNAT		10	5		74300002	JP	RH	3/8/2006	JR	P	VTOK	RH
3/6/2006	1-0205		P	91-105-106		56 FNAT		3	3		74300014	LS	RH	3/8/2006	JR	P	VTOK	RH
3/9/2006	1-0216		P	52-53-109		63 FEAT		2	2	0	74300014	LS	DH	3/10/2006	DL	P	VTOK	RH



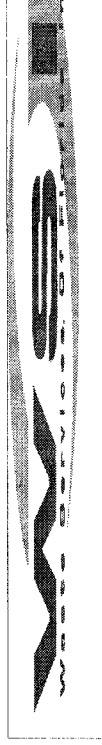
Repair Summary Log



Primary / Secondary: Secondary										Series: 1									
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing						
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID	
3/9/2006	1-0220	1-042	P	108-109		38 FEAT		6	2	0	74300002	JP	DH	3/10/2006	DL	P	VTOK	RH	
3/9/2006	1-0223		P	47-48-113-115		95 FEAT		3	2	0	74300002	JP	DH	3/10/2006	DL	P	VTOK	RH	
3/9/2006	1-0238		P	37-124-125		160 FEAT		3	2	0	74300002	JP	DH	3/10/2006	DL	P	VTOK	RH	
3/9/2006	1-0206		P	91-103-106		IMP FRO		2	2		74300014	LS	DH	3/10/2006	DL	P	VTOK	RH	
3/9/2006	1-0207		P	89-105-106		56 FNAT		3	1		74300014	LS	DH	3/10/2006	DL	P	VTOK	RH	
3/9/2006	1-0208		P	89-104-106		62 FNAT		2	2		74300014	LS	RH	3/10/2006	DL	P	VTOK	RH	
3/9/2006	1-0210		P	54-104-107		365 FWTS		7	2		74300014	LS	DH	3/10/2006	DL	P	VTOK	RH	
3/9/2006	1-0211		P	53-54-107		362 FWTS		3	2		74300014	LS	DH	3/10/2006	DL	P	VTOK	RH	
3/9/2006	1-0212		P	53-106-107		380 FWTS		2	2		74300014	LS	DH	3/10/2006	DL	P	VTOK	RH	
3/9/2006	1-0213		P	53-104-106-108		68 FEAT		6	4		74300014	LS	RH	3/10/2006	DL	P	VTOK	RH	
3/9/2006	1-0214		P	102-103-106		56 FNAT		3	2		74300014	LS	RH	3/10/2006	DL	P	VTOK	RH	
3/9/2006	1-0215		P	53-108-109		68 FNAT		2	2		74300014	LS	RH	3/10/2006	DL	P	VTOK	RH	
3/9/2006	1-0217		P	109-110-52		F Sump E		3	3		74300014	LS	RH	3/10/2006	DL	P	VTOK	RH	
3/9/2006	1-0218		P	110-51-52		F Sump E		2	2		74300014	LS	RH	3/10/2006	DL	P	VTOK	RH	
3/9/2006	1-0219		P	110-111-51		3 S of Sum		2	2		74300014	LS	RH	3/10/2006	DL	P	VTOK	RH	
3/9/2006	1-0209		P	104-106-107		73 FNAT		2	2		74300014	LS	RH	3/10/2006	DL	P	VTOK	RH	
3/10/2006	1-0221		P	49-50-111		73 FEAT		4	2	0	74300002	JP	DH	3/10/2006	DL	P	VTOK	RH	



Repair Summary Log

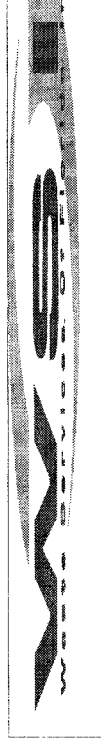


Primary / Secondary: Secondary										Series: 1								
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
3/10/2006	1-0230		P	42-43-129-131		130 FEAT		7	2	0	74300002	JP	DH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0258		P	113-114-115		65 FEAT		2	2	0	74300002	JP	DH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0226		P	45-117-132		3 of Sump		2	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0253		P	130-128-129		91 FEAT		2	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0254		P	131-130-129		94 FEAT		2	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0231		P	41-42-128-129		2 S of Sur		4	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0232		P	40-41-128-127		3 of Sump		6	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0233		P	39-40-127		3 of Sump		2	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0234		P	39-126-127		3 of Sump		2	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0235		P	38-39-126		3 of Sump		2	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0236		P	38-125-126		3 of Sump		2	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0239		P	36-37-124		3 of Sump		2	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0237		P	37-38-125		3 of Sump		2	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0240		P	36-122-124		3 of Sump		2	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0251		P	125-124-123		166 FEAT		2	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0250		P	122-123-124		159 FEAT		2	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0241		P	35-36-122		3 of Sump		5	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH



Repair Summary Log

Primary / Secondary:				Secondary				Series: 1										
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
3/10/2006	1-0242		P	35-122-121		S of Sump		3	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0244		P	33-34-121-119		S of Sump		12	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0243		P	34-35-121		S of Sump		2	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0249		P	121-120-122		178 FEAT		2	2		74300002	JP	RH	3/10/2006	JR	P	VTOK	RH
3/10/2006	1-0245		P	32-33-118-119		S of Sump		2	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0246	1-047	P	120-119		126 FEAT		6	2		74300002	JP	RH	3/10/2006	JR	P	VTOK	RH
3/10/2006	1-0248		P	119-121-120		175 FEAT		2	2		74300002	JP	RH	3/10/2006	JR	P	VTOK	RH
3/10/2006	1-0255	1-044	P	130-131		58 FEAT		6	3		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0259		P	50-51-111		of Sump		2	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0222		P	48-49-112-113		2 S of Sun	ETS	3	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0252		P	113-114-115		89 FEAT		2	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0257	1-043	P	114-116		43 FEAT		6	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0256		P	114-115-116		68 FEAT		2	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	DH
3/10/2006	1-0224		P	46-47-115-116		S of Sump		2	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0225		P	45-46-116-117		S of Sump		3	2		74300002	JP	DH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0227		P	44-45-132		S of Sump		2	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/10/2006	1-0228	1-048	P	44-132		S of Sump		6	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH



Repair Summary Log

Primary / Secondary: Secondary										Series: 1									
Repair Date	Repair ID	DS No	Repair Type	Location				Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID	Oper ID		Date	Oper ID	Result (p/f)	Action	QA ID	
3/10/2006	1-0229		P	43-44-131-132		5 of Sump		5	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH	
3/10/2006	1-0247	1-046	P	122-123		38 FEAT		6	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH	
3/13/2006	1-0271		P	28-137-138		231 FEAT		2	2	0	74300002	JP	DH	3/16/2006	CC	P	VTOK	RH	
3/13/2006	1-0285	1-052	P	141-143		121 FEAT		6	2	0	74300002	JP	DH	3/16/2006	CC	P	VTOK	RH	
3/13/2006	1-0288		P	144-145-146		183 FEAT		2	2	0	74300002	JP	DH	3/16/2006	CC	P	VTOK	RH	
3/13/2006	1-0317		P	118/133		AT AT		2	2	0	74300002	JP	DH	3/16/2006	DL	P	VTOK	RH	
3/13/2006	1-0321		P	20-170		AT AT		2	2	0	7402	BR	DH	3/16/2006	DL	P	VTOK	RH	
3/13/2006	1-0265		P	135-136-137		189 FEAT		2	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH	
3/13/2006	1-0262		P	31-32-118-133		5 of Sump		5	4		74300002	JP	RH	3/16/2006	DL	P	VTOK	RH	
3/13/2006	1-0263		P	30-31-133-134		5 of Sump		4	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH	
3/13/2006	1-0267		P	134-137-135		208 FEAT		2	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH	
3/13/2006	1-0272		P	136-137-138		186 FEAT		2	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH	
3/13/2006	1-0266	1-050	P	135-137		199 FEAT		6	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH	
3/13/2006	1-0268		P	29-30-134		5 of Sump		2	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH	
3/13/2006	1-0261	1-049	P	118-133		182 FEAT		6	2		74300002	JP	RH	3/16/2006	DL	P	VTOK	RH	
3/13/2006	1-0275		P	140-139-138		182 FEAT		2	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH	
3/13/2006	1-0293		P	21-22-147-145		5 of Sump		4	2		74300014	BR	RH	3/16/2006	CC	P	VTOK	RH	



Repair Summary Log

Primary / Secondary:				Secondary		Series: 1												
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
3/13/2006	1-0276		P	138-140		167 FEAT		6	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0287		P	22-23-144-145		5 of Sump		5	2		74300014	BR	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0277		P	139-140-141		178 FEAT		2	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0270	1-056	P	28-29-137		5 of Sump		2	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0286		P	23-24-143-144		5 of Sump		5	2		74300014	BR	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0282		P	25-142-143		5 of Sump		2	2		74300014	BR	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0322		P	28-137-138		5 of Sump		2	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	0322/283		P	28-137-138		5 of Sump		2	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0273		P	27-28-138		582 FEAT		2	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0274		P	27-138-139		5 of Sump		3	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0279		P	26-27-139		5 of Sump		2	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0281		P	25-26-142		5 of Sump		2	2		74300014	BR	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0280		P	26-139-142		5 of Sump		2	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0278		P	139-141-142		211 FEAT		2	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0291		P	145-146-148		181 FEAT		2	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0284	1-052	P	141-143		121 FEAT		6	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0289	1-053	P	144-146		86 FEAT		2	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH



Repair Summary Log

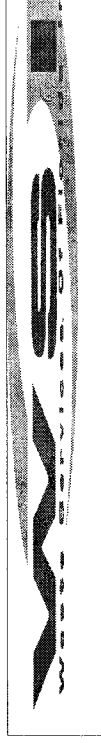


Primary / Secondary: Secondary										Series: 1								
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
3/13/2006	1-0290		P	146-147-148		94 FEAT		2	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0298		P	147-148-149		91 FEAT		2	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0297		P	169-170-149		31 FSAT		2	2		74300002	BR	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0264		P	134-133-135		209 FEAT		2	2		74300002	JP	RH	3/16/2006	DL	P	VTOK	RH
3/13/2006	1-0294		P	170-20-21		31 FSAT		2	2		74300014	BR	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0295		P	170-21-20-147		5 of Sump		8	4		74300014	BR	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0300		P	168-169-149		32 FSAT		2	2		74300002	BR	RH	3/16/2006	DL	P	VTOK	RH
3/13/2006	1-0301		P	167-168-149-150		240 FEAT		3	2		74300002	BR	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0299	1-055	P	149-150		125 FEAT		6	2		74300002	JP	RH	3/16/2006	DL	P	VTOK	RH
3/13/2006	1-0310		P	153-162-163		31 FSAT		2	2		74300002	JP	RH	3/16/2006	DL	P	VTOK	RH
3/13/2006	1-0305		P	150-151-152		143 FEAT		2	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0292	1-054	P	145-147		250 FEAT		6	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0302		P	150-166-167		93 FEAT		2	2		74300002	BR	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0307	1-059	P	164-151		32 FSAT		6	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0303		P	165-166-150		117 FEAT		2	2		74300002	BR	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0304		P	150-151-165		195 FEAT		2	2		74300002	BR	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0308		P	163-164-151		31 FSAT		2	3		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH

Wednesday, April 12, 2006



Repair Summary Log



Primary / Secondary: Secondary										Series: 1								
Repair Date	Repair ID	DS No	Repair Type	Location			Size			Welder I.D.		QA ID	Non-Destructive Testing					
				Seam	Panel	Distance (ft.)	Offset (ft.)	Length (ft.)	Width (ft.)	Dia. (ft.)	Mach ID		Oper ID	Date	Oper ID	Result (p/f)	Action	QA ID
3/13/2006	1-0309		P	163-152-151-153		32 FSAT		2	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0320	1-058	P	166-167		20 FSAT		6	2		74300002	BR	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0311		P	162-161-153		31 FSAT		2	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0319		P	165-166		7 FSAT		2	2		74300002	BR	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0306		P	164-165-151		31 FSAT		2	2		74300002	BR	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0312		P	153-154-160-161		31 FSAT		5	3		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0313		P	159-160-154		30 FSAT		2	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0314		P	154-155-158-159		27 FSAT		4	2		74300002	JP	RH	3/16/2006	CC	P	VTOK	RH
3/13/2006	1-0316		P	156-157-158		30 FSAT		3	2		74300002	BR	RH	3/16/2006	DL	P	VTOK	RH
3/13/2006	1-0318	1-057	P	158-159		18 FSAT		6	2		74300002	JP	RH	3/16/2006	DL	P	VTOK	RH
3/13/2006	1-0315		P	155-156-158		35 FEAT		2	2		74300002	BR	RH	3/16/2006	DL	P	VTOK	RH
3/14/2006	1-0155	1-039	P	64/65/75/76		75 FNAT		2	2		74300014	OF	RH	3/14/2006	CC	P	VTOK	DH
3/16/2006	1-0323		P		132	121 FEAT	S 131-13	2	2		74300002	JP	RH	3/16/2006	JR	P	VTOK	RH
3/16/2006	1-0269		P	29-137-134		5 of Sump		2	2		74300002	JP	RH	3/16/2006	DL	P	VTOK	RH
3/16/2006	1-0260		P	111-112-50-51		of Sump		5	2		74300002	JP	RH	3/10/2006	DL	P	VTOK	RH
3/16/2006	1-0296		P	147-149-170		291 FEAT		2	2		74300002	BR	RH	3/16/2006	CC	P	VTOK	RH
3/1/2009	1-0121		C	59/60		82 FWTS	0-9 North	9	2	0	74300014	LS	DH	3/1/2006	DL	P	VTOK	DH



Destructive Test Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

TaskNo: 01

Test Reqs: Fusion: Peel Inside: 78 Peel Outside: 78 Shear: 120

Extrusion: Peel: 70 Shear: 108

MaterialType: 1

Series: 1

Sample Data					Field Data				Laboratory Data					Re test 1	Re test 2	QA ID	
DS No	Well Type	Track Type	Location		Mach ID	Oper ID	Peel		Shear	Unit ppi/psi	Result (P/F)	Date of Results	Average Peel		Unit ppi/psi	Result (P/F)	
			Seam	Dist. (ft.)			Inside	Outside					Inside	Outside			
1-001	F	D	14/15	15'FSAT75200023		JP	126	115	164	ppi	P	2/21/2006	114	130	ppi	P	RH
1-002	F	D	19/21	66' FWT75200023		JP	112	112	169	ppi	P	2/21/2006	126	135	ppi	P	RH
1-003	F	D	22/23	66' FWT75200022		BR	122	120	198	ppi	P	2/20/2006	125	140	ppi	P	RH
1-004	F	D	23-24	150' 75200023		JP	110	119	190	ppi	P	2/20/2006	120	116	ppi	P	RH
1-005	F	D	24-25	50' FWT7547		OF	111	111	190	ppi	P	2/20/2006	122	106	ppi	P	RH
1-006	F	D	25-26	350 75200022		BR	112	113	180	ppi	P	2/21/2006	120	121	ppi	P	RH
1-007	F	D	27-28	48' FWT7547		OF	132	126	188	ppi	P	2/20/2006	123	117	ppi	P	RH
1-008	F	D	28-29	50' FWT75200022		BR	116	115	186	ppi	P	2/20/2006	118	130	ppi	P	RH
1-009	F	D	29-30	50' FWT7547		OF	108	104	190	ppi	P	2/27/2006	114	115.6	ppi	P	RH
1-010	F	D	31-32	50' FWT75200023		JP	114	117	183	ppi	P	2/27/2006	121.8	116.4	ppi	P	RH
1-011	F	D	32-33	49' FWT7547		OF	113	110	181	ppi	P	2/27/2006	118	126.6	ppi	P	RH
1-012	F	D	33-34	52' FWT75200023		JP	113	112	169	ppi	P	2/27/2006	118	119	ppi	P	RH
1-013	F	D	34-35	52' FWT75200022		BR	119	121	172	ppi	P	2/27/2006	130.6	124.2	ppi	P	RH
1-014	F	D	35-36	50' FWT7547		OF	107	108	172	ppi	P	2/27/2006	118	115.6	ppi	P	RH

Wednesday, April 12, 2006

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Destructive Test Log



Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

TaskNo: 01

Test Reqs: Fusion: Peel Inside: 78 Peel Outside: 78 Shear: 120
 Extrusion: Peel: 70 Shear: 108

Primary / Secondary: Secondary Series: 1 MaterialType: 1

Sample Data										Field Data				Laboratory Data						Re test	Re test	QA ID
DS No	Weld Type	Track Type	Location		Mach ID	Oper ID	Peel		Shear	Unit ppi/psi	Result (P/F)	Date Samp	QA ID	Average Peel		Unit ppi/psi	Result (P/F)	Re test 1	Re test 2	QA ID		
			Seam	Dist. (ft.)			Inside	Outside						Inside	Outside							
1-015	F	D	37-38	49' FWTS5200022		BR	114	113	174	ppi	P	2/27/2006	DH	123.8	129.8	ppi	P			RH		
1-016	F	D	38-39	50' FWTS 7547		OF	114	114	161	ppi	P	2/27/2006	DH	128.4	122	ppi	P			RH		
1-017	F	D	39-40	50' FWTS5200023		JP	107	120	169	ppi	P	2/27/2006	DH	129.8	117.8	ppi	P			RH		
1-018	E	S	34' EXT	38' FSAT4300014		JP	156	-----	176	ppi	P	2/27/2006	DH	153	-----	ppi	P			RH		
1-019	f	d	40-41	50' FWTS5200022		BR	104	108	162	ppi	P	2/27/2006	DH	120.8	127	ppi	P			RH		
1-020	f	d	41-42	00' FWTS5200023		JP	120	129	198	ppi	P	2/27/2006	DH	128.2	113.4	ppi	P			RH		
1-021	f	d	42-43	28' FWTS 7547		OF	107	114	195	ppi	P	2/27/2006	DH	126.8	132.2	ppi	P			RH		
1-022	f	d	43-44	50' FWTS5200022		BR	117	121	193	ppi	P	2/27/2006	DH	120.4	124.6	ppi	P			RH		
1-023	f	d	44-45	00' FWTS5200023		JP	131	136	186	ppi	P	2/27/2006	DH	130.2	120.2	ppi	P			RH		
1-024	f	d	45-46	50' FWTS5200022		BR	122	121	188	ppi	P	2/27/2006	DH	117.8	113.6	ppi	P			RH		
1-025	f	d	46-47	50' FWTS 7537		OF	114	113	158	ppi	P	3/1/2006	DH	117	115	ppi	p			RH		
1-026	f	d	47-48	50' FWTS5200023		JP	116	112	158	ppi	P	3/1/2006	DH	126	115	ppi	p			RH		
1-027	f	d	48-49	50' FWTS5200022		BR	121	118	196	ppi	P	3/1/2006	DH	130	116	ppi	p			DH		
1-028	f	d	49-50	50' FWTS 7537		OF	113	118	186	ppi	P	3/1/2006	DH	115	114	ppi	p			DH		

Wednesday, April 12, 2006



Destructive Test Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St. Cloud Florida
 Description: Cell 2 Construction

ProjNo: FQ0852

TaskNo: 01

Test Reqs: Fusion: Peel Inside: 78 Peel Outside: 78 Shear: 120
 Extrusion: Peel: 70 Shear: 108

Primary / Secondary: Secondary Series: 1 MaterialType: 1

Sample Data				Field Data				Laboratory Data				Re test 1	Re test 2	QA ID								
DS No	Well Type	Track Type	Location		Mach ID	Oper ID	Peel		Shear	Unit ppi/psi	Result (P/F)	Date Samp	QA ID	Date of Results	Average Peel		Avg. Shear	Unit ppi/psi	Result (P/F)	Re test 1	Re test 2	QA ID
			Seam	Dist. (ft.)			Inside	Outside							Inside	Outside						
1-029	f	d	51/52	50 FWTS/5200022		BR	108	111	165	ppi	P	3/1/2006	DH	3/2/2006	122	123	170	ppi	p			DH
1-030	f	d	52/53	49' FWTS	7537	OF	127	130	186	ppi	P	3/1/2006	DH	3/2/2006	129	116	171	ppi	p			DH
1-031	f	d	53/54	50' FWTS/5200022		BR	120	108	169	ppi	P	3/1/2006	DH	3/2/2006	128	112	174	ppi	p			DH
1-032	f	d	57/58	11' N 75200023		JP	134	134	162	ppi	P	3/1/2006	DH	3/2/2006	148	150	162	ppi	p			DH
1-033	f	d	58/59	50' FWTS/5200023		JP	126	116	179	ppi	P	3/1/2006	DH	3/2/2006	121	120	178	ppi	p			DH
1-034A	F	D	P2-EXT	8 FSAT 74300002		JP	106	-----	118	PSI	P	3/3/2006	DH	3/6/2006	173	-----	170	PSI	P	1-34A1-34B		RH
1-034B	E	S	56-EXT	826 FSA/74300002		JP	101	-----	142	ppi	P	3/3/2006	DH	3/6/2006	131	-----	160	ppi	P			DH
1-042	F	D	108/109	58 W 75200022		BR	140	136	191	ppi	P	3/9/2006	DH	3/13/2006	136	128	180	ppi	P			RH
1-044	F	D	130/131	58 W 75200022		BR	113	120	188	PSI	P	3/9/2006	DH	3/13/2006	114	110	169	psi	P			RH
1-035	F	D	61/62	100 E 75200023		JP	95	98	155	ppi	P	3/9/2006	DH	3/11/2006	127	111	174	ppi	P			RH
1-036	F	D	66/67	31 E 7537		OF	96	91	157	ppi	P	3/9/2006	DH	3/11/2006	116	112	172	ppi	P			RH
1-039	F	D	65/75	124 E 7537		OF	114	114	148	ppi	P	3/9/2006	DH	3/11/2006	130	141	166	ppi	P			RH
1-043	F	D	114/116	43 W 75200022		BR	119	135	169	ppi	P	3/9/2006	DH	3/13/2006	115	108	172	ppi	P			RH
1-037	F	D	76/77	56 S 7537		OF	111	96	157	ppi	P	3/9/2006	DH	3/11/2006	116	115	166	ppi	P			RH

Wednesday, April 12, 2006

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Destructive Test Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EO0852

TaskNo: 01

Test Reqs: Fusion: Peel Inside: 78 Peel Outside: 78 Shear: 120
 Extrusion: Peel: 70 Shear: 108

MaterialType: 1

Series: 1

Primary / Secondary: Secondary

DS No			Weld Type	Track Type	Sample Data			Field Data				Laboratory Data				Re test 1	Re test 2	QA ID			
					Seam	Location		Mach ID	Oper ID	Peel		Shear	Unit ppi/psi	Result (P/F)	Date Samp				QA ID	Average Peel	
							Inside			Outside											
1-038	F	D	82/83	55 S	75200022	BR	91	95	147	ppi	P	3/9/2006	DH	3/11/2006	118	118	173	ppi	P		RH
1-040	E	S	65/ext	956 N	74300014	OF	105	-----	151	ppi	P	3/9/2006	DH	3/11/2006	151	-----	170	ppi	P		RH
1-041	F	D	102/103	39 W	75200022	BR	119	115	146	PSI	P	3/9/2006	DH	3/11/2006	143	131	173	ppi	P		RH
1-045	F	D	126-127	85 FEAT	75200022	BR	104	108	152	PSI	P	3/10/2006	DH	3/13/2006	126	110	171	PSI	P		RH
1-046	F	D	122-123	38 FEAT	75200023	JP	117	116	175	PSI	P	3/10/2006	DH	3/13/2006	120	115	171	PSI	P		DH
1-047	F	D	119-120	126 FEAT	7539	DL	115	116	153	PSI	P	3/10/2006	RH	3/13/2006	118	115	170	PSI	P		RH
1-048	F	D	44-132	10 SOUT	7537	OF	154	139	150	PSI	P	3/10/2006	DH	3/13/2006	142	137	164	PSI	P		DH
1-049	F	D	118-133	182 FEAT	7537	OF	106	107	147	PPI	P	3/13/2006	RH	3/15/2006	133	118	177	PSI	P		RH
1-050	F	D	135-137	199FEAT	75200023	JP	126	122	187	PPI	P	3/14/2006	RH	3/15/2006	119	112	182	PSI	P		RH
1-059	F	D	153-164	152 East	75200022	BR	132	125	167	PSI	P	3/14/2006	RH	3/15/2006	128	152	181	PSI	P		RH
1-058	F	D	166-167	20 FSAT	75200022	JP	110	112	164	PSI	P	3/14/2006	RH	3/15/2006	117	113	185	PSI	P		RH
1-057	F	D	158-159	8 NORTH	75200023	JP	109	111	152	PSI	P	3/14/2006	RH	3/15/2006	121	112	182	PSI	P		RH
1-056	F	D	29-137	54 SOUT	7537	OF	130	132	160	PSI	P	3/14/2006	RH	3/15/2006	145	127	171	PSI	P		RH
1-055	F	D	149-150	125 FEAT	75200022	BR	115	110	166	PSI	P	3/14/2006	RH	3/14/2006	121	113	174	PSI	P		RH

Wednesday, April 12, 2006

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Destructive Test Log

Project: J.E.D. Solid Waste Landfill
 Location: 1501 Omni Way St Cloud Florida
 Description: Cell 2 Construction

ProjNo: EQ0852

TaskNo: 01

Test Reqs: Fusion: Peel Inside: 78 Peel Outside: 78 Shear: 120
 Extrusion: Peel: 70 Shear: 108

MaterialType: 1

Series: 1

Primary / Secondary: Secondary

Sample Data				Field Data				Laboratory Data						Re test	Re test	QA ID			
DS No	Weld Type	Track Type	Location		Mach ID	Oper ID	Peel		Shear	Unit ppi/psi	Result (P/F)	Date of Results	Average Peel		Unit ppi/psi	Result (P/F)			
			Seam	Dist. (ft.)			Inside	Outside					Inside	Outside					
1-054	F	D	145-147	250 FEAT	7539	DL	110	109	164	PSI	P	3/14/2006	RH	135	120	178	P		RH
1-053	F	D	144-146	86 FEAT	75200023	JP	113	116	162	PSI	P	3/14/2006	RH	123	112	177	P		RH
1-052	F	D	141-143	121 FEAT	7539	DL	110	109	166	PSI	P	3/14/2006	RH	118	116	172	P	/	/
1-051	F	D	138-140	167 FEAT	7537	OF	106	104	145	PSI	P	3/14/2006	RH	121	110	174	P		RH

Comments: 1-001: SAMPLE CUT ON 2/18/06-DEPLOYED 2/17/06; 1-002: SAMPLE CUT 2/18/06-DEPLOYED 2/17/06; 1-003: SAMPLE CUT 2/18/06- DEPLOYED 2/17/06; 1-004: SAMPLE CUT ON 2/18/06-DEPLOYED ON 2/17/06; 1-006: SAMPLE CUT ON 2/18/06- DEPLOYED 2/18/06; 1-034A: 2-NON FTB

GEOSYNTEC CONSULTANTS Photographic Record		
Client: Omni Waste Services, Inc	Project Number:	FQ 0852
Project Name: Oak Hammock Disposal Facility – Cell 2		
Project Location: Near Holopaw in Osceola County, Florida		

Photograph 1 Date: 22 Dec 2005 Direction: North Comments: Cell 2 footprint area after stripping	
Photograph 2 Date: 20 Jan 2006 Direction: North Comments: Placement of general fill within Cell 2	

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Omni Waste Services, Inc

Project Number:

FQ 0852

Project Name: Oak Hammock Disposal Facility – Cell 2

Project Location: Near Holopaw in Osceola County, Florida

Photograph 3

Date: 20 Jan 2006

Direction: East

Comments:
Compaction of general
fill within Cell 2



Photograph 4

Date: 22 Feb 2006

Direction: West

Comments:
Surveyor staking out
liner subbase grades
within Cell 2



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Omni Waste Services, Inc

Project Number:

FQ 0852

Project Name: Oak Hammock Disposal Facility – Cell 2

Project Location: Near Holopaw in Osceola County, Florida

Photograph 5

Date: 22 Feb 2006

Direction: Northeast

Comments:
Final grading of liner
subbase layer

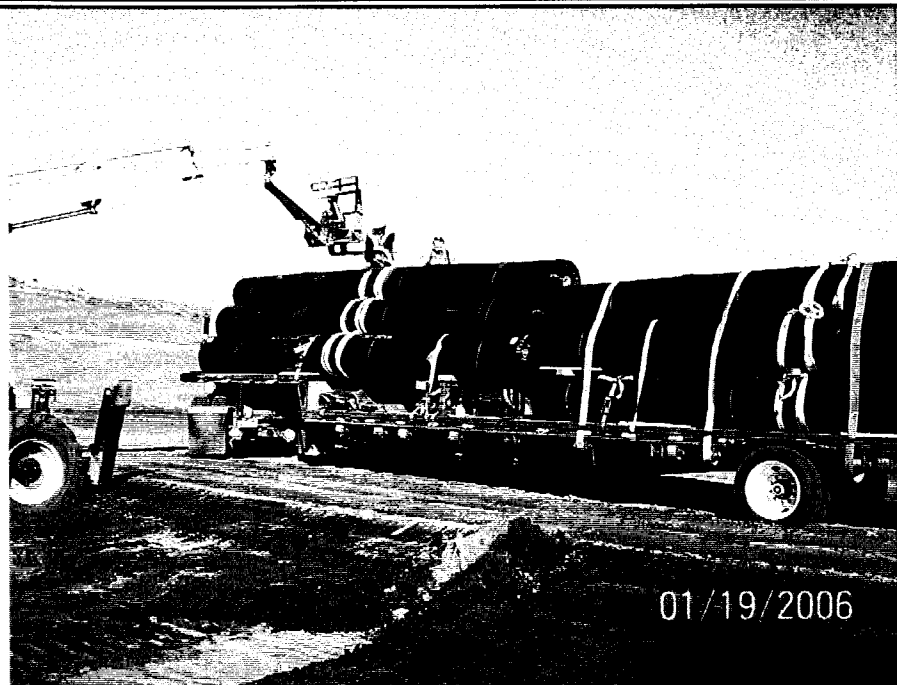


Photograph 6

Date: 19 Jan 2006

Direction: Northwest

Comments:
Unloading of 60-mil
HDPE textured
geomembrane liner rolls



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Omni Waste Services, Inc

Project Number:

FQ 0852

Project Name: Oak Hammock Disposal Facility – Cell 2

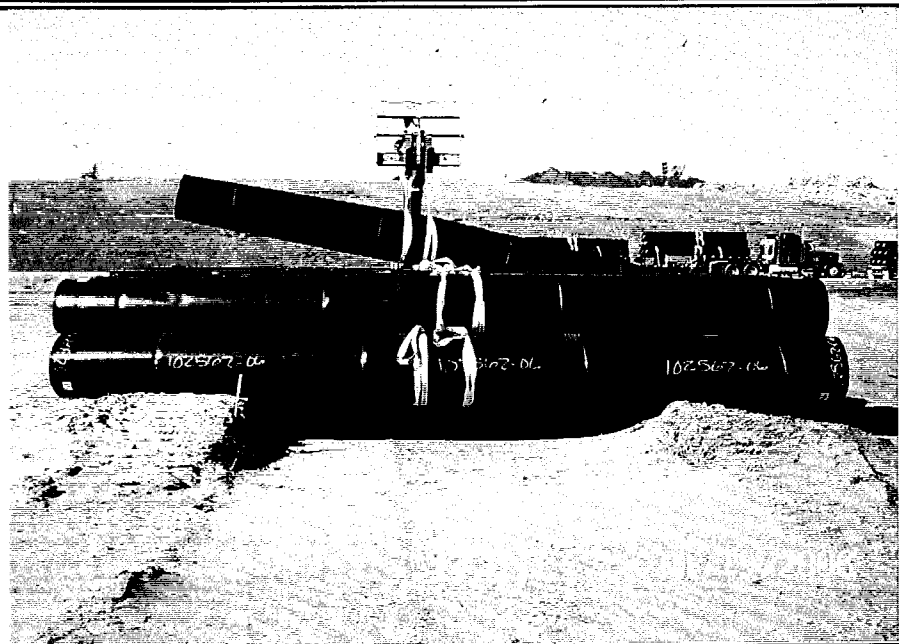
Project Location: Near Holopaw in Osceola County, Florida

Photograph 7

Date: 19 Jan 2006

Direction: West

Comments:
Staging of geomembrane
liner rolls



Photograph 8

Date: 18 Feb 2006

Direction: North

Comments:
Geosynthetics tie-in
along west side of Cell 2



GEOSYNTEC CONSULTANTS Photographic Record		
Client: Omni Waste Services, Inc	Project Number:	FQ 0852
Project Name: Oak Hammock Disposal Facility – Cell 2		
Project Location: Near Holopaw in Osceola County, Florida		

Photograph 9 Date: 18 Feb 2006 Direction: Southwest Comments: Progression of liner system construction	
Photograph 10 Date: 24 Feb 2006 Direction: East Comments: Installation of secondary GCL component of liner system	

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Omni Waste Services, Inc

Project Number:

FQ 0852

Project Name: Oak Hammock Disposal Facility – Cell 2

Project Location: Near Holopaw in Osceola County, Florida

Photograph 11

Date: 18 Feb 2006

Direction: East

Comments:
Application of granular
bentonite along GCL
panel overlap



Photograph 12

Date: 24 Feb 2006

Direction: Northwest

Comments:
Installation of secondary
60-mil HDPE
geomembrane liner



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Omni Waste Services, Inc

Project Number:

FQ 0852

Project Name: Oak Hammock Disposal Facility – Cell 2

Project Location: Near Holopaw in Osceola County, Florida

Photograph 13

Date: 27 Feb 2006

Direction: South

Comments:
Preparation of trial seam
for extrusion welder



Photograph 14

Date: 27 Feb 2006

Direction: South

Comments:
Extrusion welding
secondary geomembrane
liner along Cell 2 / Cell 1
tie-in



GEOSYNTEC CONSULTANTS Photographic Record		
Client: Omni Waste Services, Inc	Project Number:	FQ 0852
Project Name: Oak Hammock Disposal Facility – Cell 2		
Project Location: Near Holopaw in Osceola County, Florida		

Photograph 15 Date: 18 Feb 2006 Direction: Comments: Non-destructive air channel testing of completed double track fusion weld	
Photograph 16 Date: 1 Mar 2006 Direction: Comments: Non-destructive vacuum box testing of completed extrusion weld	

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Omni Waste Services, Inc

Project Number:

FQ 0852

Project Name: Oak Hammock Disposal Facility – Cell 2

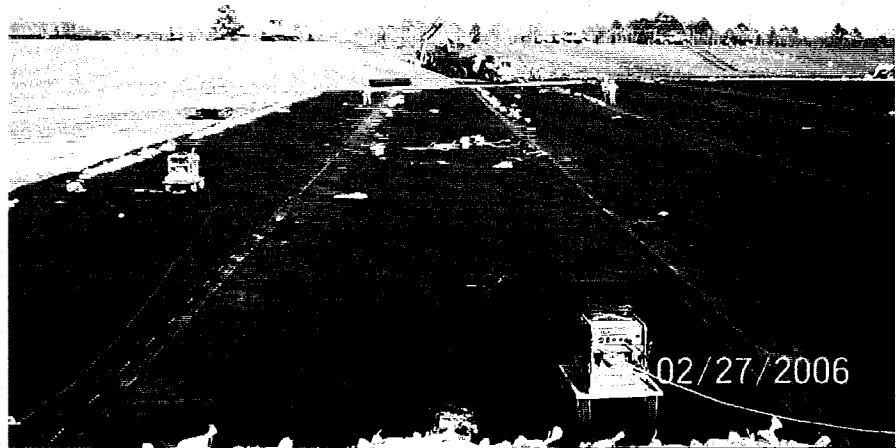
Project Location: Near Holopaw in Osceola County, Florida

Photograph 17

Date: 27 Feb 2006

Direction: Northeast

Comments:
Secondary geomembrane
installation and
excavation of Cell 2
sump area



Photograph 18

Date: 2 Mar 2006

Direction: Northeast

Comments:
Geosynthetics installation
progression



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Omni Waste Services, Inc

Project Number:

FQ 0852

Project Name: Oak Hammock Disposal Facility – Cell 2

Project Location: Near Holopaw in Osceola County, Florida

Photograph 19

Date: 2 Mar 2006

Direction:

Comments:
Overlap and connection
of geonet component of
adjacent geocomposite
panels



Photograph 20

Date: 22 Feb 2006

Direction:

Comments:
Sewing upper geotextile
overlap of adjacent
geocomposite panels



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Omni Waste Services, Inc

Project Number:

FQ 0852

Project Name: Oak Hammock Disposal Facility – Cell 2

Project Location: Near Holopaw in Osceola County, Florida

Photograph 21

Date: 24 Feb 2006

Direction: Northeast

Comments:
Excavation of Cell 2
sump

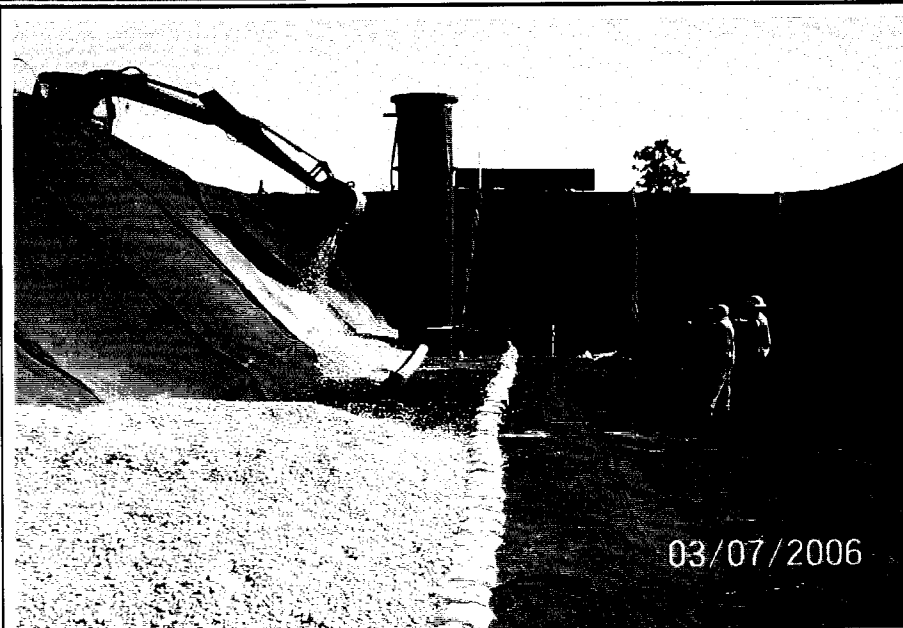


Photograph 22

Date: 7 Mar 2006

Direction: Northeast

Comments:
Placement of drainage
gravel for secondary
leachate collection sump
construction



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Omni Waste Services, Inc

Project Number:

FQ 0852

Project Name: Oak Hammock Disposal Facility – Cell 2

Project Location: Near Holopaw in Osceola County, Florida

Photograph 23

Date: 30 Mar 2006

Direction: Northeast

Comments:
Cell 2 leachate collection
sump risers

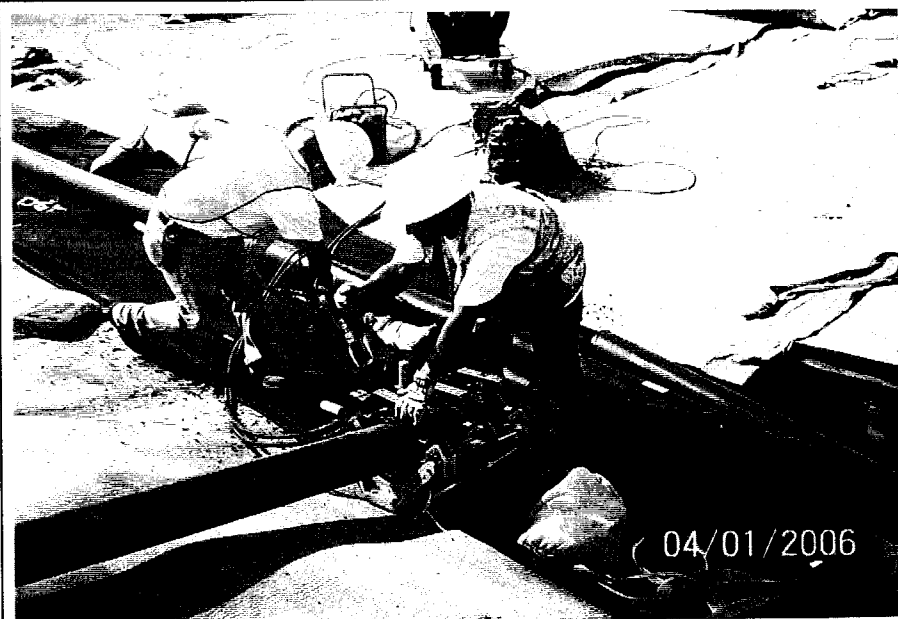


Photograph 24

Date: 1 Apr 2006

Direction: Southwest

Comments:
Thermal butt fusion
welding of HDPE
leachate collection piping
within Cell 2



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Omni Waste Services, Inc

Project Number:

FQ 0852

Project Name: Oak Hammock Disposal Facility – Cell 2

Project Location: Near Holopaw in Osceola County, Florida

Photograph 25

Date: 4 Apr 2006

Direction: Northwest

Comments:
Compaction of general
fill around leachate
collection sump risers



Photograph 26

Date: 1 April 2006

Direction: West

Comments:
Compaction of general
fill in geosynthetics'
anchor trench



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Omni Waste Services, Inc

Project Number:

FQ 0852

Project Name: Oak Hammock Disposal Facility – Cell 2

Project Location: Near Holopaw in Osceola County, Florida

Photograph 27

Date: 7 April 2006

Direction: Southwest

Comments:
Placement of protective
cover soil along south
side of Cell 2



Photograph 28

Date: 12 Apr 2006

Direction: West

Comments:
Installation of control
panel at Cell 2 sump area

