

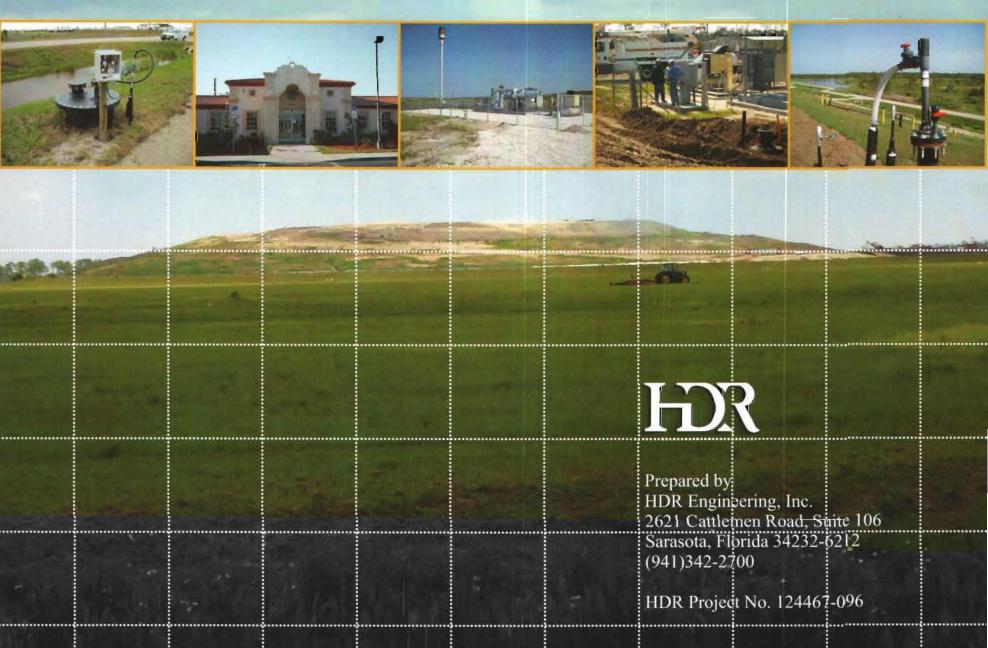
ENVIRONMENTAL PROTECTION

AUG 13 2010

SOUTHWEST DISTRICT

Central County Solid Waste Disposal Complex
Phase I Landfill Gas Collection and Control System
Sequence 1

Certification of Construction Completion Report DEP Construction Permit No. 130542-009-SC/08
August 2010





August 13, 2010

Susan J. Pelz, P.E.
Florida Department of Environmental Protection
Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Subject:

Certification of Construction Completion Report

Sarasota County Central County Solid Waste Disposal Complex (CCSWDC)

Phase I Landfill Gas Collection and Control System - Sequence 1

FDEP Construction Permit Number 130542-009-SC/08

Dear Ms. Pelz:

On behalf of Sarasota County Solid Waste Operations (SWO), HDR Engineering, Inc. (HDR) is pleased to submit four copies of the Certification of Construction Completion Report (Report) for the CCSWDC Phase I landfill Gas Collection and Control System – Sequence 1. As stated in the Report, HDR served as the Engineer of Record and provided on-site Construction Quality Assurance (CQA) services during the construction of the project as a representative of the SWO. The enclosed Report includes a completed Certification of Construction Completion form, signed and sealed by a Professional Engineer licensed in the State of Florida.

HDR believes that the Report meets the requirements established in the subject permit and the CQA Plan. Please contact me at 813-282-2776 if you have any questions or require additional information.

Sincerely,

Richard Siemering

Solid Waste Section Manager

cc: Spencer Anderson, P.E., Sarasota County

Jack Gibson, Sarasota County Gary Bennett, Sarasota County Lois Rose, Sarasota County Cliff Koenig, P.E. Controlling Cliff Koenig, P.E. Controlling Controlling Southwest District



### 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: 130542-009-SC/08County: Sarasota					
Name of Project: Central County Solid Waste Disposal Complex Phase I Gas Collection and Control System					
Name of Owner: Sarasota County Solid Waste Operations					
Name of Engineer: HDR Engineering, Inc.					
Type of Project: Construction of a Landfill Gas Collection and Control System at the Phase I landfill					
Cost: Estimate \$ 1,823,071.11 Actual\$ 1,357,711.82 (Bid Amount)					
Site Design: Quantity: 1,000 ton/day Site Acreage: 55 Acres					
Deviations from Plans and Application Approved by DEP: Construction of Phase I landfill gas collection					
and control system was constructed in general accordance with the specifications and drawings submitted as part of					
the permit application. No significant deviations occurred during construction. Refer to the certification report for					
a summary of minor deviations.					
Address and Telephone No. of Site: 4000 Knights Trail Road, Nokomis FL 3200					
(941) 861-1570 Ph. Of Ent.					
Name(s) of Site Supervisor: Ms. Lois E. Rose, Manager, Solid Waste					
Name(s) of Site Supervisor: Ms. Lois E. Rose, Manager, Solid Waste  Protection  Date Site inspection is requested: As soon as possible					
Address and Telephone No. of Site: 4000 Knights Trail Road, Nokomis FL 300 Pt. Of Environmental Name(s) of Site Supervisor: Ms. Lois E. Rose, Manager, Solid Waste  Date Site inspection is requested: As soon as possible.					
Name(s) of Site Supervisor: Ms. Lois E. Rose, Manager, Solid Waste  Date Site inspection is requested: As soon as possible.  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					
Name(s) of Site Supervisor: Ms. Lois E. Rose, Manager, Solid Waste  Date Site inspection is requested: As soon as possible.  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					
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: 130542-009-SC/08  :Dated: July 15, 2009					
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: 130542-009-SC/08  :Dated: July 15, 2009  Date: 8-13-2010					
This is to certify that, with the exception of any deviation notes above, the construction of the project has been completed in substantial accordance with the plans authorized by Construction  Permit No: 130542-009-SC/08  Date: S-13-20/0  Signature of Project Construction  Signature of Project Construction					
This is to certify that, with the exception of any deviation notes above, the construction of the project has been completed in substantial accordance with the plans authorized by Construction  Permit No: 130542-009-SC/08  Date: S-13-20/0  Signature of Project Construction  Signature of Project Construction					
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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: 130542-009-SC/08  Date: S-13-20/8  Page 1 of 1  No. 64078					





Sarasota County Solid Waste Operations

Central County Solid Waste Disposal Complex
Phase I – Sequence 1
Landfill Gas Collection and Control System
Certification of Construction Completion Report

August 2010

Prepared by HDR Engineering, Inc. 2621 Cattlemen Road, Suite 106 Sarasota, Florida 34232-6212 (941) 342-2700

HDR Project No. 124467-096 Florida Certification of Authorization No. 00004213

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### 1.0 INTRODUCTION

On behalf of Sarasota County Solid Waste Operations (SWO), HDR Engineering, Inc. (HDR) has prepared this Certification of Construction Completion Report to document the construction activities of the Phase I Landfill Gas Collection and Control System (LFGCCS) at the Central County Solid Waste Disposal Complex (CCSWDC). The Phase I LFGCCS construction included only the first sequence of wells and piping on the side slopes of Phase I up to a maximum elevation 80 feet (Sequence 1) and not in the active disposal area. The landfill gas collection system will be expanded into further areas of the Phase I landfill after final build-out elevations have been reached (Sequence 2) during closure construction activities for Phase I currently being permitted under FDEP File No. 130542-014-SF/01.

Construction of the Phase I LFGCCS Sequence 1 began on January 19, 2010, and Final Completion was achieved by the Contractor on June 14, 2010. HDR provided Engineer of Record (EOR) and Construction Quality Assurance (CQA) services to SWO throughout the duration of the project. Ardaman and Associates, Inc. (Ardaman) was retained by HDR to provide as requested testing services during the construction of the project.

HDR's responsibilities during construction of the Phase I LFGCCS Sequence 1 included:

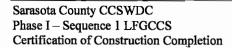
- Original design and construction documents;
- Daily CQA monitoring of all construction activities;
- Attendance at progress meetings during construction;
- Review of shop drawings and other contractor submittals;
- Review and address contractor Requests for Information (RFI) during construction;
- Review of contractor's pay requests; and
- Preparation of the Certification of Construction Completion Report for submittal to FDEP.

The CQA activities were performed to confirm that the construction materials and procedures were in compliance with the Construction Permits No. 130542-009-SC/08 dated July 15, 2009, and 1150089-005-AC dated August 5, 2009 issued by the Florida Department of Environmental Protection (FDEP), Southwest District and in accordance with Chapter 62-701, Solid Waste Management Facilities, and Florida Administrative Code (FAC). A copy of the Phase I LFGCCS construction permits are provided in Attachment A.

The Phase I LFGCCS Sequence 1 was constructed in general accordance with the above mentioned permits and associated permit drawings. Minor deviations from the approved permit documents were required to facilitate construction or to update the documents to comply with current industry standards.

These minor deviations include the following:

• Construction Permit Drawings required the installation of 29 Gas Extraction Wells (GW). Due to revised filling sequence and operations on Phase I, the southwest corner of Phase I has not reached final design grades, therefore, only GW-1 through 26 were installed;



- The Construction Permit Drawings require the connection to the leachate cleanout (LCO) pipes on the north and south slopes. Ten connections were designed but due to the revised filling sequence, LCO-4S and LCO-5S connections were not installed.
- A Condensate Knockout Pot at the southeast corner was replaced with an HDPE wye;
- The 2" SDR 9 (airline) and 4" SDR 9 (forcemain) were installed in the up-gradient side of the header pipe to facilitate connections to GWs;
- The high point of the 24-inch header pipe on the east slope was placed approximately 10 feet further north than shown on the Pre-Construction survey; hence, the high point elevation was lowered and the overall pipe length from the high point was increased, resulting in the location of the header, forcemain, airline valve pits and wye at the southeast corner being deeper than designed. Extensions to the valve pits were required in order to provide a minimum of 2 feet from the top of the valve pit to existing grade. Valve stem extensions were also necessary to extend the valve actuators to near the top of the valve pit. Please refer to Section 4. 4 for additional information.
- As a result of the lower invert elevation of the wye, the slope of the 30-inch header pipe from the
  wye to the south access road varies from 1.3% to 1.8% along the final 150 feet of trench before
  passing the anchor trench (Refer to as-built Sheet 00C-3D for control point numbers 10174,
  50082, and 50084). Waste was only located along the initial 50 feet of trench. Please refer to
  Section 4. 4 for additional information.
- The subbase for the corrugated metal pipe (CMP) within the landfill footprint was not required to be compacted to 95% modified proctor. A gravel layer compacted with the hoe was placed as a subbase;
- GW-3, GW-8, and GW-18 were installed as Type 1 GW instead of Type 2 GW. The location of the header pipe was not close enough to the GWs to facilitate a Type 2 connection;
- The header and forcemain valve pit diameters were increased in order to facilitate the installation of valves inside the HDPE pits.
- Access ports at each GW were replaced with 1-inch ball valves. The ball valves allow liquid level
  measurements to be measured by inserting a liquid level sensor through the ball valve at the GW.

### 2.0 PROJECT DESCRIPTION

### 2.1 General

The CCSWDC site encompasses approximately 6,150 acres and is located two miles east of I-75 and three miles south of S.R. 72 in central Sarasota County. The Class I landfill is located within a 550 acre special exception area which is located at the approximate center of the site.

The Phase I LFGCCS Sequence 1 included 26 vertical GWs,header and lateral piping of various sizes, condensate sumps, isolation valves for airlines, condensate, and landfill gas, access points for header, forcemain and air lines, and a skid mounted flare station for the efficient combustion of the collected gas.

### 2.2 Construction Activities

Construction activity observations by the CQA inspectors were recorded in CQA daily logs provided in Attachment B. Construction and documentation for Phase I LFGCCS Sequence 1 included the following components:

- Gas extraction wells;
- Piping installation (including header and lateral trenching, road crossing);
- Condensate sump and U-traps installation;
- · Header, forcemain, and valve pit installation; and
- Flare station installation;

### 2.2.1 Gas Extraction Wells

The Phase I LFGCCS was considered critical with respect to the adequate performance of the CCSWDC and protection of the environment. The Phase I LFGCCS Sequence 1 system consists of 26 vertical GWs drilled into the waste. Each vertical GW has the following components (from top to bottom):

- Minimum 18-inch thick intermediate soil layer;
- 2-foot thick hydrated bentonite seal;
- Minimum 18-inch thick soil plug layer;
- 2-foot thick hydrated bentonite seal;
- 1-foot thick soil plug layer;
- · Geonet with heat bonded geotextile; and
- Washed non-calcareous stone (size 1 to 3-inch) surrounding the perforated pipe.

The GWs were designed to be installed to a depth of approximately two-thirds of the waste depth and at least 15 feet from the bottom liner system. Therefore, the installed GWs did not interfere with the liner or leachate collection system in Phase I.

CQA personnel were on-site full-time during the entire duration of the installation of the GWs to observe construction activities related to the installation of the GW components. Please refer to Attachment C for GW installation and drilling logs.

### 2.2.2 Gas Remote Wellheads

The Phase I LFGCCS Sequence 1 system consists of 8 remote wellheads connected to the existing LCO piping. The gas system was connected on the north slope to LCO-1N, 2N, 3N, 4N, and 5N, and on the south slope to LCO-1S, 2S, and 3S. LCO-4S and 5S were not installed due to the southwest corner of Phase I not at final design grades. The remote wellheads will provide for gas extraction from the existing LCO piping.

### 2.2.3 Condensate Sumps

Condensate generated from the LFGCCS will gravity drain to 4 condensate sumps located on the south slope and along the east access road outside of the landfill. On the north slope, condensate drains to three U-traps. The U-traps have a drain line that allows accumulated condensate being discharge into the existing Phase I collection system. Condensate forms within the interior of the gas collection pipes as landfill gas contacts the cooler HDPE pipe surface. The condensate sumps serve as low points within the LFGCCS for the condensate to collect via gravity flow. The pneumatic condensate sump pumps are activated independently by the condensate level in each sump. The condensate is then pumped to the existing Cell 1 leachate collection system, located at the north slope of Phase I and ultimately routed to the existing leachate storage tank. Refer to Attachment D for leak test results obtained for condensate sumps 3, 4, and 5 located outside of the Phase I landfill. Sump 2 did not require a leak test since it is located within the landfill footprint.

### 2.2.4 Flare Station

The Flare Station includes one blower. The blower system is used to draw landfill gas through the LFGCCS to the flare. The blower for the LFGCCS is located at the flare station on the blower skid. The blower will be operated continuously in accordance with FDEP Air Program permit and Title V regulatory requirements. The Flare Station includes an additional connection for a future blower if needed. The Flare Station equipment includes:

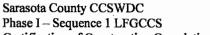
- Condensate demister separator/condensate knock-out pot.
- Blower system to provide vacuum pressure to draw the gas from the landfill.
- Candlestick flare station.

### 3.0 CONSTRUCTION QUALITY ASSURANCE PROGRAM

### 3.1 General

The scope of CQA monitoring, testing, and documentation services performed during the construction of the Phase I LFGCCS Sequence 1 included review of documents, record drawings, field CQA operations, and preparation of the final Construction Certification Report. These activities are summarized in the following sections. A list of personnel involved in the construction of the Phase I LFGCCS Sequence 1 is included in Section 3.5.

Installation of the GWs began on January 28, 2010 and was completed on February 5, 2010. Installation of header piping, laterals to GWs, sumps, U-traps, and the Flare Station began on February 8, 2010 and reached substantial completion on May 12, 2010. Construction of the Phase I LFGCCS Sequence 1 reached final acceptance on June 12, 2010.



### 3.2 Related Documents

As previously noted, this Report summarizes the CQA activities performed by HDR during construction of Phase I LFGCCS Sequence 1. The following documents define the design and technical aspects of the project which governed the construction:

- Permit Application entitled "Central County Solid Waste Disposal Complex Class I landfill Phase I LFGCCS Construction/Operation Permit Application" prepared by HDR, dated December 29, 2008, and amendments dated March 13, 2009, and April 20, 2009.
- Construction Permit entitled "Central County Solid Waste Disposal Complex Class I Landfill (CCSWDC) Phase I Gas Collection and Control System Construction Permit No.: 130542-009-SC/08, Sarasota County", dated July 15, 2009.
- Permit drawings entitled "Central County Solid Waste Disposal Complex, Sarasota County, Phase I – Sequence I Landfill Gas Collection and Control System, dated April 20, 2009, prepared by HDR Engineering, Inc.
- "Contract Documents and Specifications for CCSWDC Landfill Gas Collection Phase I Sequence 1, CIP # 95215, Bid # 09803CS", prepared by Sarasota County Capital Management Services and HDR.

All of the above documents are hereafter collectively referred to as the CQA Documents in this Report. During the construction of Phase I LFGCCS Sequence 1, some minor modifications from the approved permit documents were required to facilitate construction or to update the documents to comply with current industry standards. These minor modifications are discussed in detail within Section 1.0 of this certification report.

### 3.3 Field CQA Operations

The following activities were performed as part of CQA services provided by HDR:

- Notifying contractor of areas that needed additional compaction based on failing in-situ tests and re-testing these areas to ensure compliance with the requirements of the CQA Documents;
- Observing placement, grading, and compaction of earthwork related construction activities (including the flare station pad);
- Observing delivery, storage, and tracking the inventory of materials delivered for the project;
- Observing installation of GWs;
- Documenting and observing leak tests on installed piping;
- Observing construction of U-traps, and connection of U-traps to existing leachate collection system; and
- Observing repair of the perimeter roads;

During construction activities involving CQC and CQA testing, the observations made by CQA personnel and results for both CQC and CQA tests obtained by CQA personnel were compared with the

5

requirements of the CQA Documents. The Contractor was notified of deficiencies in construction practices and/or materials to ensure appropriate corrective actions were taken. Corrective actions and CQA/CQC retesting were monitored by CQA personnel for compliance with the requirements of the CQA Documents.

### 3.4 Certification Report and Record Drawings

During construction of the Phase I LFGCCS Sequence 1, CQA monitoring and testing activities were documented by CQA personnel in Daily Logs. CQA Daily Logs are included in Attachment B. Compaction test results completed by the CQA laboratory are included in Attachment F.

Record drawings for the Phase I LFGCCS Sequence 1 and this Construction Certification Report were prepared as the final task of the construction of the Phase I LFGCCS. Record drawings are included in Attachment G.

### 3.5 Project Personnel and Responsibility

The principal organizations involved in designing and construction of the Phase I LFGCCS Sequence 1 include the facility owner/operator, Design Engineer, CQA organization, and Contractor as listed below.

Owner:

Sarasota Solid Waste Operations
Central County Solid Waste Disposal Complex
4000 Knights Trail Road
Nokomis, FL
(941) 861-1570

Design Engineering:

HDR Engineering, Inc. 200 W. Forsyth Street, Suite 800 Jacksonville, FL 32202-4321 (904) 598-8900

Construction Quality Assurance:

HDR Engineering, Inc. 2421 Cattlemen Road, Suite 106 Sarasota, FL 34232

(941) 342-2700

LFG General Contractor:

SCS Field Services 1901 Central Drive, Suite 550

Bedford, TX 76021 (817) 571-2288

<u>Name</u>

Lois Rose, Manager Solid Waste Operations.

Jack Gibson, Construction Manager

Name

Cliff Koenig, P.E, Engineer of Record

Name

Richard A. Siemering, Solid Waste Section

Manage

Carlos Restrepo, P.E, Field CQA Representative

Name

Robert Butler, Project Manager Johnny Meier, Field Superintendent Flare Station Contractor: LFG Specialties, LLC/Shaw E&I Group 16406 US Route 224 E. Findlay, OH 45840 (419) 424-4915 Name Lawrence Derr, Project Manager

CQA Geotechnical Testing Laboratory: Ardaman and Associates, Inc. 78 Sarasota Center Blvd. Sarasota, FL 34240 (941) 922-3526

Name
Jerry Kuehn., P.E, Senior Project Engineer

### 4.0 SUMMARY OF CONSTRUCTION

### 4.1 Gas Extraction Wells

Gas extraction wells (GW) were constructed with 6-inch diameter high density polyethylene (HDPE), SDR 11 inserted into a 36-inch diameter borehole. The boreholes were terminated at approximately 15 feet above the estimated bottom of the cell with a maximum depth equivalent to two-thirds of the waste depth.

The GWs have 10 feet of solid HDPE pipe near the surface of the landfill (not including 4 foot stick up) welded to perforated HDPE pipe deeper in the landfill in order to minimize the potential for air intrusion into the landfill and gas system. Perforations in the HDPE pipes were fabricated by the manufacturer in the configuration shown in the Record Drawings provided in Attachment G on Sheet D-01, Detail 2. All GWs were capped at the bottom of the well.

Before placing the HDPE pipe into the GW borehole, CQA personnel verified the depths. After the GW was installed, 1-inch to 3-inch, washed, non-calcareous gravel was deposited in the bottom of the borehole, as well as around the perforated pipe. The gravel was placed up to 2 feet above the end of the perforated pipe length. Above the gravel, a 6-ounce non-woven geotextile bonded to geonet (geocomposite ring) was placed before installation of a 1-foot soil plug around the solid-wall pipe. A 2-foot thick hydrated bentonite seal was installed and filled on top with a minimum of 18-inch thick backfill. A second 2-foot hydrated bentonite seal was installed on top of the backfill. The remainder of the borehole was backfilled with cover soils to grade.

The solid HDPE pipe was extended approximately 4 feet above the existing ground surface. This allows for final cover placement during closure of Phase I with approximately 2 feet of pipe extension above the final cover grade.

During drilling, CQA personnel verified the type of waste excavated and temperature. The maximum waste temperature was recorded at GW-2 with 102 °F. Adjustments to GWs depths were not necessary. Contractor's GW installation and drilling logs are included in Attachment C.

### 4.2 Wellheads

Each GW was fitted with Landtec Accu-Flo wellheads. The wellheads were installed with a 2-inch diameter vertical wellhead assembly, kanaflex hose, and fittings. The Accu-Flo wellhead is specifically designed to allow easy installation and maintenance. The installed wellhead is built with quick connect access ports, allowing the connection of a landfill gas monitor. The Accu-Flo wellhead can be adjusted with a built-in gate valve. This valve can be manipulated to increase or decrease the amount of vacuum available to the GW.

### 4.3 Gas Extraction Header and Lateral Pipes

Landfill gas will be collected from the GWs and conveyed to the flare through a network of header and lateral pipelines constructed of HDPE SDR 17 pipe. Condensate flowing in the header and lateral lines along the south slope and east access road drains to four condensate sumps (Sumps 2, 3, 4, and 5). Condensate flowing along the north slope drains to three U-traps (U-1, 2, and 3). The condensate is then pumped into the existing leachate collection system via the 4-inch SDR 9 forcemain line. The 4-inch SDR-9 forcemain line is connected to the existing Cell 1 leachate collection system. A minimum slope of 5 percent for header and laterals within the landfill footprint and 1 percent slope for headers outside of the landfill footprint were provided to minimize surging and blockage problems due to condensate buildup and landfill settling.

The location and alignment of the headers and laterals were adjusted during construction where conditions in the landfill varied from the design or to facilitate meeting the required slope. The header and lateral piping was installed by the Contractor according to the design criteria.

Lateral piping is used to transmit landfill gas from the GW into the main header piping of the gas collection system and provide a pathway for the vacuum present in the header line to influence the GWs. The lateral pipingwas installed using HDPE SDR 11 piping. Depending on the type of GW, a 4-inch, 6-inch, or 8-inch diameter pipe was used for laterals.

Access points were also installed in the header line. 18-inch x 8-inch SDR 11 tees and 24-inch x 8-inch tees were fused to the header line. An 8-inch SDR 11 riser extension with a blind flange was fused to the tees.

Header and lateral pipes were subjected to air pressure tests to detect any leaks in the piping. The required test pressure was 10 psig, to be held for one hour. HDR allowed a test pressure of 5 psi for portions of piping connected to Sump 2 due to the sump manufacturer's recommendation that the sump not be pressurized to greater than 5 psi. The pressure drop, in any test, could not exceed 5 percent of the testing gauge pressure over the 1 hour test period. As shown in Table 1, all piping sections, requiring an air pressure test, passed air pressure testing. These tests are documented in the CQA Daily Field Logs provided in Attachment B.

Header and lateral pipe sections were joined using butt-fusion methods. CQA personnel monitored the butt-fusion techniques to ensure that industry accepted procedures were used during construction. CQA personnel also verified the diameter to ensure compliance with the requirements of the Contract Documents.

Date	Pipe Dia.	Length (ft)	Description	Stationing	Location	Pressure (psig)	Duration (hrs)	Pass/ Fail
3/8/2010	18" SDR 17	1,773	Header	0+00 (U-3) to 16+75 (U-1) and 0+00 (U-3) to 0+95 (EOP)	North Slope	10	1.0	Pass
	8" SDR 11	96	Lateral GW-6		North Slope	10_	1.0	Pass
	6" SDR 11	190	Laterals GW-1,4,7, LCO-5N		North Slope	10	1.0	Pass
	4" SDR 11	240	Laterals GW- 2,3,5,8,9,10		North Slope	10	1.0	Pass
	4" SDR 9	2,265	Along header and laterals		North Slope	10	1.0	Pass
	2" SDR 9	2,265	Along header and laterals		North Slope	10	1.0	Pass
3/9/2010	6" SDR 11	283	Remote Wellheads LCO-1N, 2N, 3N, 4N		North Slope	10	1.0	Pass
4/8/2010	24" SDR 17	1,164	Header	0+00 (U-1) to 11+64 (Wye)	East Slope	10	1.0	Pass
	6" SDR 11	96	Laterals GW-14,15,16		East Slope	10	1.0	Pass
	4" SDR 11	347	Laterals GW- 11,12,13,17, 18		East Slope	10	1.0	Pass
	4" SDR 9	1,607	Along header and laterals		East Slope	10	1.0	Pass
4/13/2010	2" SDR 9	1,607	Along header and laterals		East Slope	10	1.0	Pass
4/15/2010	18" SDR 17	1,400	Header	0+00 (Sump 2) to 10+70 (Wye) and 0+00 (sump 2) to 3+30 (EOP)	South Slope	5*	1.0	Pass
	6" SDR 11	120	Laterals GW-19,20, LCO-3S		South Slope	5*	1.0	Pass
	4" SDR 11	270	Laterals GW- 21,22,23,24, 25,26		South Slope	5*	1.0	Pass
	4" SDR 9	1,750	Along header and laterals		South Slope	10	1.0	Pass
	2" SDR 9	1,750	Along header and laterals		South Slope	10	1.0	Pass
4/16/2010	6" SDR 11	233	Remote Wellheads LCO-1S, 2S		South Slope	10	1.0	Pass
4/19/2010	30" SDR 17	400	Header	0+00 (Wye) to 4+00 (Sump 3)	East of Phase V	10	1.0	Pass
4/24/2010	30" SDR 17	545	Header	4+00 (Sump 3) to 9+45 (Sump 4)	East of Phase V	10	1.0	Pass
4/29/2010	30" SDR 17	505	Header	9+45 (Sump 4) to 14+50	East of Phase V	10	1.0	Pass
5/8/2010	30" SDR 17	400	Header	14+50 to 18+50 (Sump 5)	East of Phase V	10	1.0	Pass
5/5/2010	36" SDR 17 /90 elbow	90	Header	Sump 5 to Flare Station	Flare Station	10	1.0	Pass
5/12/2010	4" SDR 9	1,850	Forcemain line	0+00 (Wye) to 18+50 (Sump 5)	East slope to Flare Station	10	1.0	Pass
	2" SDR 9	1,850	Air return line	0+00 (Wye) to 18+50 (Sump 5)	East slope to Flare Station	10	1.0	Pass
	14" SDR 17	12	26" x 14" reducer at		Flare Station	10	1.0	Pass

<sup>\* 18&</sup>quot; SDR 17 header in south slope tested at 5 psig for 1 hr. Sump 2 connected to 18" header not recommended to be tested at 10 psig



The header line crossed 5 access roads. The Contractor excavated to the required depths to install the 42-inch and 48-inch Reinforced Concrete Pipes (RCP) to protect the header line. A limerock base was placed before installing the RCPs. During backfilling, Contractor and CQA personnel conducted compaction tests to meet a 95% modified proctor. Compaction test results are provided in Attachment F.

The header and lateral for LCO-1S, on the south slope, were installed inside a corrugated metal pipe (CMP) where the future access road on the south slope of Phase I crosses the header and LCO-1S lateral. The access road will be constructed once Phase I reaches final build-out elevations. The subbase for the CMP was not compacted to 95% modified proctor. The Contractor installed a compacted gravel base layer for the CMP as recommended by HDR.

### 4.4 Pipe Slope

The header, lateral, air, and forcemain lines were installed with a minimum slope of 5 percent within the landfill footprint. Pipes located outside of the landfill footprint were installed with a 1 percent minimum slope.

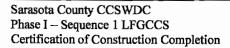
The Contractor and CQA personnel field verified the slope of the header pipe at 25-foot intervals along the length of thepipe before backfilling. Survey tubes for pipe coordinates and elevations were placed every 50-foot intervals for as-builts. Changes in pipe direction, fittings, and connections were also surveyed. The final as-built survey is included in Attachment G as part of the Record Drawings.

During installation of the 24-inch header line from the high point to the wye along the east side slope, CQA personnel informed the Contractor that the trench depth was becoming deeper than required in the Contract Documents to maintain minimum cover, which would provide an excessive depth of cover over the pipe. Further review of as-builts demonstrated that the Contractor moved the high point location approximately 10 feet further north than that shown on the pre-construction survey; hence, the high point elevation was lowered and the overall pipe length from the high point to the wye was increased, resulting in a flatter slope along the surface of the pipe route, causing the Contractor to progressively excavate a deeper trench to meet the minimum 5 percent slope.

Given the high point invert was installed lower than designed and staked-out, as well as the pipe length in this area, the difference between the pipe surface slope and the actual pipe slope resulted in the wye invert being approximately 5 feet deeper than designed. Thus, rather than having an invert elevation of approximately 40 feet NGVD at the wye as shown on the Contract Drawings (C-004), the installed invert elevation is approximately 35.3 feet NGVD.

As a result, the lower invert elevation of the wye required that the 30-inch header pipe at the road crossing just south of the southeast corner of Phase I be adjusted to maximize pipe slope. The header, airline, and forcemain valve pits were extended and valve stem extensions were installed for the header valves in order to provide the required clearance from the top of the pits to the existing grade.





The 30-inch header line from the wye to the road just south of Phase I southeast corner (approximately 150 feet) varied from 1.3 percent (60.15 feet) to 1.8 percent (49.94 feet) and then to 2.4 percent (41.60 feet). Waste was only found during the first 50 feet of trench. HDR reviewed the header pipe configuration and based on waste being found only on the first 50 feet of trench, accepted the pipe slope obtained in this area. The Contractor provided an additional 2 year warranty to SWO to cover any repairs along this section of pipe. Due to the limited depth and area of waste at this section of pipe, HDR does not anticipate settlement which would cause the pipe to exhibit condensate drainage issues.

### 4.5 Air and Forcemain Lines

Air and forcemain lines were constructed of 2-inch and 4-inch HDEP SDR 9 pipe, respectively. The air line serves as an air source for the operation of pneumatic pumps which are commonly installed in GWs to reduce the volume of liquid contained within the well boring when needed to improve GW performance. The GWs installed as part of the LFGCCS Sequence 1 were not provided with pneumatic pumps. The forcemain line allows discharge of water pumped from the GW into the existing leachate collection system.

The air and forcemain lines were installed in the same trench as the GW lateral and connected to the air and forcemain lines along the header. Air and forcemain lines along the header were installed on the upgradient side of the slope to facilitate connections to the GWs. The air and forcemain lines were fused together to create one complete system. Air and forcemain line risers were installed at each GW and Sumps with 1-inch stainless steel ball valves.

Air and forcemain pipes were subjected to air pressure test to detect any leaks in the piping. No loss in pressure was reported as shown in Table 1 provided in Section 4.3.

As part of the design, a dual containment forcemain line was required to be installed outside of the landfill footprint. Based on the meeting minutes between HDR and FDEP on October 17, 2008, dual contained condensate forcemain lines are not required. HDR approved the change from a dual containment pipe to a single pipe.

### 4.6 Condensate Sumps

Three 36-inch HDPE SDR 17 condensate sumps (S-2, S-3, and S-4) amd one 48-inch HDPE SDR 17 condensate sump (S-5) were installed. Sump S-1 will be installed as part of the Phase I Closure LFGCCS – Sequence 2. The sumps were installed at low points in the header line to serve as a removal location for condensate which is present in the header line.

During excavation of Sumps 3, 4, and 5, outside of the landfill footprint, a layer of rock was found during the bottom 4 feet of excavation. The Contractor was able to remove the rock to the required depth level.

Once the Sumps were installed, 10 cubic yards of concrete was placed around the sump to serve as ballast to prevent uplift forces.

The condensate sumps have a 6-inch flanged access point for the pneumatic pump. QED pneumatic pumps were installed with a bubbler system that will turn the pump on or off based on the liquid level inside the sump. Condensate removed from the sump is pumped into the 4-inch forcemain return line. Condensate sumps S-3, S-4, and S-5 (located outside of the landfill footprint) were leak tested by the manufacturer. Please refer to Attachment D for leak test results for the sumps. Sump S-2 located on the south side slope of Phase I was not required to be tested since it was located within the lined footprint of Phase I.

### 4.7 Leachate Cleanouts

The Phase I LFGCCS Sequence 1 incorporated the connection to existing Phase I leachate cleanouts. Existing 6-inch leachate cleanouts risers extended along the base liner of the landfill to the leachate sump at the base of the landfill. These leachate cleanouts give access to the landfill gas which is present at the base of the landfill.

Gas accumulation in the existing leachate collection system flowed passively and was flared by solar flares located at each leachate cleanout riser. As part of the Phase I LFGCCS Sequence 1, the solar flares were removed. Condensate lines were connected between the U-traps and the existing leachate cleanout risers. An additional tee was installed at the leachate cleanout riser connecting to remote GWs. The remote GWs were located next to each U-trap. The forcemain line was connected at the Cell 1 leachate cleanout riser for discharge of condensate accumulated in the landfill gas system.

All fusions at the cleanout risers were made with electrofusion collars. CQA personnel verified that excavations at the cleanouts were made with all necessary precautions to prevent any damage to the bottom liner system. No damage to the liner was reported. A total of 8 leachate cleanout risers were connected to the landfill gas system including 5 cleanouts on the north side slope and 3 on the south side slope.

### 4.8 U-traps

The Contractor field fabricated all U-traps. Three U-traps were installed on the north slope and were connected to the existing leachate collection system for Cells 1, 3, and 5 of Phase I. Gas condensate accumulated in the LGFCCS at the north slope will gravity drain to the U-traps. The U-traps include a 4" condensate drain line that is connected to the LCO risers. CQA personnel verified that dimensions based on the construction documents were met. All U-traps were filled with water before flare station start-up.

### 4.9 **Isolation Valves**

The Phase I LFGCCS Sequence 1 was designed and constructed using header isolation valves, air line valve pits, and forcemain valve pits. The first set of valve pits are located at the northwest corner of Phase I. This will allow reduction of the supply of vacuum or the ability to close the landfill gas system for the future Phase II landfill.

The remaining two sets of valve pits are located at the southeast corner of Phase I where the header line diameter increases from 18-inch to 24-inch and where the header increases from a 24-inch to a 30-inch diameter header. These valve pits will allow reduction of the supply of vacuum or complete closing of the landfill gas system to the south side slope or to the east and north side slopes.

The header, forcemain, and air line isolation valves are housed in the valve pits. The header and forcemain valve pits were constructed using a 48-inch diameter HDPE SDR 32.5 standard manhole pipe with a 1-inch thick square HDPE bottom, the airline valve pit was constructed using a 36-inch diameter HDPE SDR 32.5 standard manhole pipe with an open bottom. All valve pits have a lockable lid using a metal rod.

The airline valves are used for isolating the air supply to the air line installed in parallel with the header line. The air line valve pit contains a 2-inch diameter ball valve. The airline valve pit located along the 24-inch header line (at the southeast corner of Phase I) controls the supply of pressurized air to the north and east side slopes. The airline valve pit located along the 18-inch header line (at the southeast corner of Phase I) controls the supply of pressurized air to the south side slope.

The forcemain valves are used for isolating leachate pumped from GWs to the forcemain line installed in parallel with the header line. The forcemain valve pit contains a 2-inch diameter ball valve and a 2-inch check valve. The forcemain valve pit located along the 24-inch header line (at the southeast corner of Phase I) controls the condensate or leachate from the south side slope and the condensate sumps outside of the landfill. The forcemain valve pit located along the 18-inch header line (at the southeast corner of Phase I) controls the condensate or leachate from the south side slope.

#### 4.10 Flare Station

The flare station at the CCSWDC consists of a condensate knockout pot, a blower skid (the vacuum source), several meters and analyzers, an air compressor, a flame arrestor, the flare stack with a propane ignition tip, and the programmable logic controller (PLC). The skid mounted system was provided by Shaw LFG Specialties.

Ardaman conducted a subsurface soil exploration for the area selected for the flare station to determine soil conditions and provide a recommendation on the foundation design. Ardaman's geotechnical report is included in Attachment F.

The Contractor surveyed the areas for the flare, compressor pads, and fence. The compaction of the flare and compressor pad areas was observed by CQA personnel. Soil was filled to grade in 6- to 8- inch lifts. Each lift was rolled approximately 6 times each prior to the addition of the next lift. Once it was determined that the grade surrounding the future location of the flare station was adequately compacted and raised, the area was prepared for the construction of the concrete pad which the flare station would be placed on. The soil foundation was compaction testedand the test results are provided in Attachment F. The soil foundation for the Flare Station passed compaction by achieving 95% of modified proctor maximum dry density.

Once the area designated for the concrete pad was prepared, the forms were installed for the edge of the concrete pad. Rebar was placed within the forms for the concrete padand spaced according to the recommendations of the Flare Station manufacturer. CQA personnel reviewed the rebar placement and documented that the rebar was placed in substantial accordance with the Flare Station manufacturer's recommendations.

Once the concrete was poured into the forms, a vibratory shaker was used to evenly spread the concrete over the entire area of the pad. A chamfer was used on the edge of the concrete to create an edge on all sides of the flare station pad. The concrete was spread to ensure that sections did not set before other sections were installed. Once the concrete was partially set a brush was used to create traction grooves on the surface of the flare station concrete pad. Once the concrete was set, the forms were removed and the area surrounding the concrete pad was backfilled with stone, raising it to the level of the concrete pad.

A concrete cylinder test was taken to measure the strength of the concrete for the pad at 7, 14, and 28 days. The concrete achieved 4,000 psi, as required by the specifications, within 28 days. The concrete strength test result report is provided in Appendix F. Once it was determined that the concrete had reached the specified strength, the Contractor used a crane to move the skid mounted flare station and place it onto the concrete pad. The flare stack was elevated off the ground using two thick wires connected with hooks to small indentations on the wind screen of the flare stack. Prior to complete installation, the UV Sensor and associated sealant was placed in the ignition area of the flare stack. Once this was completed the flare stack was raised into the correct position on the skid. The flare stack was then bolted to the flare skid.

After the flare station was set and connected to the gas collection system, an overall walkthrough was performed by the CQA representative and the Contractor. Drain lines and additional fittings provided by the flare manufacturer were installed. After all of the checks were completed, Shaw began commissioning and start up of the flare station. A training seminar was provided to County staff and HDR by Shaw.

### 4.11 Utilities

Existing overhead power lines located west of the maintenance building area were used to provide power to the flare station. Florida Power and Light Company (FPL) installed the transformer and junction box. The Contractor was responsible for connecting electrical lines to the junction box. The installation of the power lines and transformers were completed by FPL on March 1, 2010. The Contractor connected a phone line from the Flare Station control panel to the County's Maintenance Building.

### 5.0 CONCLUSION

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

The observations associated with the construction of Phase I LFGCCS Sequence 1 indicate that the construction was completed in compliance with Construction Permit No. 130542-009-SC/08 and the Contract Documents. Deviations identified in this Report are believed to be minor in nature and were approved by HDR before implementation by the Contractor. HDR has determined that the final completed construction satisfied project specifications and permit requirements.



# ATTACHMENT A PHASE I GAS COLLECTION AND CONTROL SYSTEM FDEP CONSTRUCTION PERMITS (SOLID WASTE AND TITLE V)



### Florida Department of Environmental Protection

Southwest District Office 13051 North Telecom Parkway Temple Terrace, Florida 33637-0926 Charlie Crist Governor

Jeft Kuttkamp Lt. Governor

Michael W. Sole Secretary

CERTIFIED MAIL #7008 0150 0003 4894 2128 RETURN RECEIPT REQUESTED

July 15, 2009

### NOTICE OF PERMIT

Sarasota County Solid Waste Operations c/o Mr. Frank Coggins, Manager 4000 Knights Trail Road Nokomis, Fl. 34275

Re: Central County Solid Waste Disposal Complex (CCSWDC)

Phase I Gas Collection and Control System Construction

Permit No.: 130542-009-SC/08, Sarasota County

Dear Mr. Coggins:

Enclosed is permit number 130542-009-SC/08, issued pursuant to Section(s) 403.087(1), Florida Statutes.

Any party to this Order (permit) has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appealate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Blvd., Mail Station 35, Tallahassee, 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Deborah A. Getzoff District Director Southwest District

"Ahore Protection, Less Process" una depistate flas

### CERTIFICATE OF SERVICE

This undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed or transmitted electronically to the addressee and the listed persons before the close of business on  $\frac{\text{July 15, 2009}}{\text{Clerk Stamp}}$  to the listed persons.

FILING AND ACKNOWLEDGMENT FILED,

on this date, pursuant to Section 120.52(11), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Mae breatly 7/15/2009

DAG/sgm Attachments Copies furnished to:

Sarasota County Elected Officials Notification
Carlo Lebron, P.E., HDR Engineering, Inc., carlo.lebron@hdrinc.com
Richard Tedder, FDEP Tallahassee, (e-mail)
Frank Hornbrook, FDEP, Tallahassee, (e-mail)
John Morris, P.G., FDEP Tampa (e-mail)
Ronni Moore, OGC Tallahassee (e-mail)
Susan Pelz, P.E., FDEP Tampa (e-mail)



## Florida Department of Environmental Protection

Southwest District 13051 North Telecom Parkway Temple Terrace, Florida 33637-0926 Telephone: 813-632-7600 Charlie Crist Governor

Jeff Kottkamp Lt. Governor

Michael W. Sole Secretary

### PERMITTEE

Sarasota County
Solid Waste Operations
Mr. Frank Coggins, Manager
4000 Knights Trail Road
Nokomis, Florida 34275

### PERMIT/CERTIFICATION

WACS ID No: SWD/58/51614 Permit No: 130542-009-sc/08

Date of Issue: 07/15/2009
Expiration Date: 07/15/2014
County: Sarasota
Lat/Long: 27°12'6.57"N
82°23'34.07"W
Sec/Town/Rge: 3/38S/19E

Sec/Town/Rge: 3/38S/19E Project: Central County Solid Waste

Disposal Complex (CCSWDC),
Phase I Gas Collection/Control

System Construction

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-302, 62-330, 62-520, 62-522, 62-550, and 62-701. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or referenced in Specific Condition #A.2., and made a part hereof and specifically described as follows:

To construct a landfill gas collection and control system for an existing Class I landfill, referred to as the Central County Solid Waste Disposal Complex (CCSWDC), Class I Landfill (Phase I), subject to the specific and general conditions attached, located at the north end of Knights Trail Road, 2 miles east of I-75, northeast of Venice, Sarasota County, Florida. The specific conditions attached are for the construction of:

A landfill gas collection and control system.

### General information:

Phases I	70 vertical extraction wells (6-inch slotted PVC pipe), below-
Gas extraction system	grade lateral and header pipelines w/3 condensate knockout
	pots, 2 condensate sumps (S-2 & S-3) and 3 condensate u-traps
	(U-1 to U-3). System is also connected to 3 existing leachate
	cleanouts on south and north sides of Phase I for condensate
	drainage to existing leachate collection system. Landfill gas
	conveyed from Phase I via gas transmission line to landfill gas
	control unit located south of future Phase 3. Transmission line
	condensate gravity drains to 3 condensate sumps (S-4 to S-6).
	[ref. Sp. Cond. #A.2.a.(3), Sheets C-03 & C-05]
Gas processing system	Gas inlet from gas extraction system, knockout pot, 2 blowers,
	vertical candlestick flare unit. Condensate collected at knock
	down pot, blowers and flare drained via a 2" HDPE gravity drain
	line to condensate sump S-6. [ref. Sp. Cond. #A.2.a.(3), Sheet C-06]

Replaces Permit No.: N/A, new permit

This permit contains compliance items summarized in **Attachment 1** that shall be complied with and submitted to the Department by the dates noted. If the compliance dates are not met and submittals are not received by the Department on the dates noted, enforcement action may be initiated to assure compliance with the conditions of this permit.

### GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- 3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
- 4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
- 5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
- 6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
- 7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
  - (a) Have access to and copy any records that must be kept under conditions of the permit;
  - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules

Reasonable time may depend on the nature of the concern being investigated.

### GENERAL CONDITIONS:

- 8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - (a) A description of and cause of noncompliance; and
  - (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
- 10. The permittee agrees to comply with changes in Department rules and Florida Statues after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
- 11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-730.300, Florida Administrative Code, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
- 12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
- 13. This permit also constitutes:
  - (a) Determination of Best Available Control Technology (BACT)
  - (b) Determination of Prevention of Significant Deterioration (PSD)
  - (c) Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
  - (d) Compliance with New Source Performance Standards

### GENERAL CONDITIONS:

- 14. The permittee shall comply with the following:
  - (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
  - (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
    - (c) Records of monitoring information shall include:
      - the date, exact place, and time of sampling or measurements;
      - the person responsible for performing the sampling or measurements;
      - 3. the dates analyses were performed;
      - the person responsible for performing the analyses;
      - 5. the analytical techniques or methods used;
      - 6. the results of such analyses.
- 15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

### SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

- 1. **Facility Designation**. This gas control system is designed to recover combustible gas and shall be constructed, operated, closed, monitored and maintained in accordance with all applicable requirements of Chapters 62-4, 62-302, 62-330, 62-520, 62-522, 62-550, and 62-701, Florida Administrative Code (F.A.C.) and all applicable requirements of Department rules.
- 2. Permit Application Documentation. This permit is valid for construction of a gas collection and control system for existing Central County Solid Waste Disposal Complex (CCSWDC), Class I Landfill (Phase I), in accordance with all applicable requirements of Department rules and in accordance with the reports, plans and other information prepared by HDR Engineering, Inc. (unless otherwise specified) as follows:
  - a. Central County Solid Waste Disposal Complex Class I Landfill Phase I Gas Collection and Control System Construction and Operation Permit Application (3-ring binder & plan set) dated December 29, 2008 (received December 30, 2008), as revised, replaced or amended (information collated into originals\*) dated March 13, 2009 (received March 26, 2009) and dated April 20, 2009 (received April 22, 2009). This information includes, but is not limited to:
    - Section 2 Engineering Report;
    - 2) Section 4 Specifications; and
    - 3) Plan Sheets titled, Permit Drawings for Central County Solid Waste Disposal Complex, Sarasota County Phase I Gas Collection and Control System... (17 Sheets) signed and sealed April 20, 2009 (received April 22, 2009).

### 3. Permit Modifications.

- a. Any construction, operation or other activities not previously approved as part of this permit shall require a separate Department permit unless the Department determines a permit modification to be more appropriate, or unless otherwise approved in writing by the Department. Any significant changes to the construction or operation at the facility shall require a permit modification. Permits shall be modified in accordance with the requirements of Rule 62-4.080, F.A.C. A modification which is reasonably expected to lead to substantially different environmental impacts which require a detailed review by the Department is considered a substantial modification.
- b. This permit authorizes the <u>construction</u> of the **Phase I** gas collection and control system and other related appurtenances, only.
- 4. Permit Renewal. On or before January 1, 2014 the permittee shall notify the Department in writing or electronically of its intent to apply for renewal of this permit and of the anticipated date of submittal of the permit renewal application. No later than May 1, 2014, the permittee shall apply for a renewal of a permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules. Permits shall be renewed at least every five years as required by Rule 62-4.090, F.A.C. and Rule 62-701.320(10)(b), F.A.C. In the event that the regulations governing this permitted construction are revised, the permit renewal shall include modification of those specific construction conditions which are affected by the revision of regulations to incorporate those revisions in accordance with Specific Condition A.8.

<sup>\*</sup> see OCULUS for un-collated submittals

### SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

- 5. **Professional Certification.** Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.), Florida Statutes, applicable portions of permit applications and supporting documents which are submitted to the Department for public record shall be signed and sealed by the professional(s) who prepared or approved them.
- 6. **General Conditions.** The permittee shall be aware of and operate under the "General Conditions." General Conditions are binding upon the permittee and enforceable pursuant to Chapter 403, Florida Statutes.
- 7. **Permit Acceptance**. By acceptance of this Permit, the Permittee certifies that he/she has read and understands the obligations imposed by the Specific and General Conditions contained herein and also including date of permit expiration and renewal deadlines. It is a violation of this permit for failure to comply with all conditions and deadlines.
- 8. Regulations. Chapter 62-701, F.A.C., effective May 27, 2001, is incorporated into this permit by reference. In the event that the regulations governing this permitted operation are revised, the Department shall notify the permittee, and the permittee shall request modification of those specific conditions which are affected by the revision of regulations to incorporate those revisions.
- 9. **Prohibitions.** The prohibitions of Rule 62-701.300, F.A.C., shall not be violated by the activities at this facility.
  - a. In the event that limestone is encountered during excavation or construction activities, the excavation/construction activities shall cease and the Department shall be notified within 24 hours of discovery. Written notification shall be submitted within 7 days of discovery. The written notification shall include the location, elevation, and extent of limestone noted on a plan sheet, a description of the materials encountered, and a plan of action which ensures that groundwater will not be adversely affected by the continued construction and operation of the facility. Excavation or construction activities shall not resume in the affected area until the Department-approved plan of action has been completed.
  - b. In the event that surface depressions or other occurrences which may be indicative of sinkhole activity or subsurface instability, are discovered on-site, or within 500 feet of the site, the Department shall be notified in accordance with Specific Condition #C.6.b. The written notification shall include a description of the incident, the location and size of the affected area shown on an appropriate plan sheet, and a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.
  - c. Open burning of solid waste is prohibited except in accordance with Rule 62-701.300(3) and Chapter 62-256, F.A.C. All fires which require longer than one (1) hour to extinguish must be promptly reported to the Department in accordance with Specific Condition #C.6.b.

### SPECIFIC CONDITIONS: PART B - Construction Requirements

- 1. **Construction.** All significant construction activities shall be approved by the Department prior to initiating work, unless specifically authorized otherwise.
  - a. This permit authorizes the construction of the gas collection and control system for Phase I of the Class I landfill and related appurtenances only.
- 2. **Certification of Construction Completion.** All information required by this Specific Condition shall be signed and sealed by a registered professional engineer or land surveyor as appropriate.
  - a. Within sixty (60) days after the specified construction has been completed, the following activities shall be completed and submitted by the permittee for Department approval. Operation of the constructed systems, structures, equipment, etc., shall not be initiated prior to Department approval of the information required by this Specific Condition:
    - 1) The owner or operator shall submit a Certification of Construction Completion, Form 62-701.900(2), signed and sealed by the professional engineer in charge of construction and quality assurance to the Department for approval, and shall arrange for Department representatives to inspect the construction in the company of the permittee, the engineer, and the facility operator.
    - 2) The owner or operator shall submit Record Drawings/Documents showing all changes (i.e., all additions, deletions, revisions to the plans previously approved by the Department including site grades and elevations). The Record Documents shall include, but not be limited, to as-built plans, details and elevations (survey).
    - 3) The owner or operator shall submit a narrative indicating all changes in plans, the cause of the deviations, and certification of the Record Drawings/Documents by the Engineer to the Department.
    - 4) The professional engineer of record shall submit to the Department a final report to verify conformance with the plans and specifications in accordance with Rules 62-701.400(7) and (8), F.A.C.
- 3. Record Drawings/Documents. The Record Drawings/Documents shall include, but not be limited to, the following information:
  - a. As-built survey of location and elevations along landfill gas header and transmission lines and condensate discharge lines and drain pipes [ref. Spec 02221-3.9.A.];
  - b. Ground surface elevations and well depths for each of the extraction wells and horizontal collector vertical borings listed on the "Well Schedule" identified on Sheet D-01 of the Construction Drawings [ref. Sp. Cond. #A.2.a(3)];
  - c. Copies of photographs documenting all stages of the construction project;

### SPECIFIC CONDITIONS: PART B - Construction Requirements

4. **Pre-Construction Meeting Notification**. Department Solid Waste Permitting staff shall be notified **at least one (1) week prior** to all preconstruction meetings. Prior to initiating construction activities, the permittee shall make arrangements for the Engineer of Record to meet on site and discuss all plan changes with Department Solid Waste Permitting Staff. A copy of the minutes from the pre-construction conference shall be submitted to the Department within two (2) weeks of the conference.

### 5. Construction Schedule and Progress Report.

- a. The Engineer of Record or another qualified professional engineer shall make periodic inspections during construction to ensure that design integrity is maintained.
- b. An updated construction schedule and progress report shall be submitted to the Department monthly, by the 15<sup>th</sup> of each month. The monthly progress report should be submitted electronically in PDF format or in an appropriately labeled three-ring binder of sufficient size to store the monthly progress reports for the entire project. The monthly progress reports shall include, but not be limited to:
  - 1) A narrative explaining the status (and any delays) of major stages of the construction;
  - 2) A summary of submittals and change order requests;
  - 3) Weekly progress meeting minutes; and
  - 4) Color copies of photographs, which are representative of the typical construction activities for the reporting period, and which show overall views and details of major stages of construction. If digital photographs are taken, a CD-Rom containing the photographs may be submitted in lieu of printed copies.
- 6. Construction Tolerances. Invert elevations of the landfill gas collection and control pipes shall be recorded at a frequency sufficient to demonstrate that the headers and laterals have been constructed to the slopes and grades shown on the drawings and will drain adequately. This information shall be included with the Record Documents.
- 7. Laboratory and Field Testing Requirements. Field and laboratory testing during the construction activities shall be conducted by a qualified testing laboratory.

### 8. Construction Quality Assurance.

- a. A complete set of construction drawings and shop drawings, which include daily additions, deletions and revisions, shall be maintained on-site at all times for reference.
- b. Leachate or gas condensate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to the land, surface water or groundwater at any time during the construction activities.
- c. Unsatisfactory, defective or non-conforming work shall be reported to the Engineer and shall be corrected, or the reasons for not correcting the work shall be recorded and maintained onsite for reference and inspections. Documentation of the corrections or reasons for not correcting the work shall be submitted with the Record Documents required by Specific Conditions #B.3.

### SPECIFIC CONDITIONS: PART B - Construction Requirements

(Specific Condition #B.8., cont'd)

- d. Excavated refuse shall be loaded and transported to the Class I landfill working face by the end of each working day. No refuse shall be allowed to remain uncovered overnight. The refuse must be removed immediately during any rain event to prevent stormwater from contacting the refuse. [ref. Spec 02221-3.3 A. & B.]
- e. The non-perforated PVC laterals, leachate and condensate drain lines, connections to LFG header, and air supply lines, shall be subjected to pressure tests to detect any leaks in the piping. [ref. Spec 15060-3.4]
- f. All dewatering liquids shall be managed as leachate.

### SPECIFIC CONDITIONS: PART C - Operation Requirements

### 1. Facility Operation Requirements.

- a. The permittee shall operate this facility in accordance with Chapter 62-701, F.A.C., and Operation Permit No. 130542-007-SO-01, (including modifications, if any), or its successors.
- b. This permit <u>does not authorize</u> the operation of the Phase I gas collection and control system and other related appurtenances until the following requirements have been completed and submitted by the Permittee, and approved by the Department:
  - 1) Certification of Construction Completion requirements of Specific Conditions #B.2. and #B.3.,
  - 2) Issuance of a permit modification of Operation Permit No. 130542-007-S0-01 or its successor, which authorizes operation of the landfill gas collection and control system and its related appurtenances.

The permittee may temporarily operate the constructed system for up to 180 days to allow for system start-up and operational adjustments while the certification of construction completion submittals and approvals required by this specific condition are completed. The permit shall notify the Department electronically or in writing of the start date for temporary start-up operation of the system.

- c. Leachate and/or gas condensate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to soils, surface water or groundwater outside the liner and leachate management systems at any time during the construction or operation of this facility.
- 2. **Facility Personnel**. The owner or operator shall provide adequate personnel for constructing, operating, monitoring and maintaining the facility in an orderly, safe, and sanitary manner.
- 3. Control of Access. Access to, and use of, the facility shall be controlled as required by Rule 62-701.500(5), F.A.C.
- 4. **Monitoring of Waste**. Wastes shall be monitored as required by Operation Permit No. 130542-007-SO-01, (including modifications, if any), or its successors.
- 5. Control of Nuisance Conditions. The owner or operator shall control odors, vectors (mosquitoes, other insects, rodents), and fugitive particulates (dust, smoke) arising from the construction and operation so as to protect the public health and welfare. Such control shall minimize the creation of nuisance conditions on adjoining property. Odors observed by Department personnel upon site inspection, shall constitute a nuisance condition, and the permittee must take immediate corrective action to abate the nuisance.

### SPECIFIC CONDITIONS: PART C - Operation Requirements

### 6. Facility Maintenance and Repair.

- a. The site shall be properly maintained including maintenance of access roads to disposal areas, equipment, stormwater and leachate management systems, cover systems and berms, gas monitoring and management systems, surface water monitoring system, and groundwater monitoring system. Erosion and ponded water in disposal areas shall be prevented.
- b. In the event of damage to any portion of the landfill site facilities, unauthorized leachate discharges, failure of any portion of the landfill systems (including damaged or dry groundwater monitoring wells), fire, explosion, the development of sinkhole(s) or other subsurface instability at the site, the permittee shall immediately (within 24 hours) notify the Department explaining such occurrence and remedial measures to be taken, method to prevent reoccurrence, and time needed for repairs. Written, detailed notification shall be submitted to the Department within seven (7) days following the occurrence. Routine maintenance does not require notification but shall be noted on daily reports.
- 7. **Stormwater Management.** The site shall have a surface water management system designed, constructed, operated, and maintained to prevent surface water from running on to waste filled areas, and a stormwater runoff control system designed, constructed, operated, and maintained to collect and control stormwater to meet the requirements of Chapter 62-330, F.A.C., and the requirements for management and storage of surface water in accordance with Rule 62-701.500(10), F.A.C., to meet applicable standards of Chapters 62-3, 62-302, and 62-330, F.A.C. The stormwater management system shall be inspected for damage and proper operation daily.

### SPECIFIC CONDITIONS: PART D - Recordkeeping

- 1. Report Submittals. Unless otherwise specified, all submittals, notifications, requests for permit modification, reports for compliance with this permit, etc., shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.
- 2. Operation Plan and Operating Record. Each landfill owner or operator shall have an operational plan which meets the requirements of Rule 62-701.500(2), F.A.C. A copy of the Department approved permit, operational plan, construction reports and record drawings, and supporting information shall be kept at the facility at all times for reference and inspections. Operating records as required by Rule 62-701.500(3), F.A.C., are part of the operations plan, and shall also be maintained at the site.
- 3. **Waste Records**. The permittee shall maintain all records required by the construction specifications, and this permit on-site, and shall provide copies to the Department upon request, unless specified otherwise.
- 4. **Financial Assurance**. The permittee shall provide adequate financial assurance for this facility and related appurtenances in accordance with Rule 62-701.630, F.A.C. and Operation Permit No. 130542-007-SO-01 (including modifications, if any), or its successors.

### SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

1. Water Quality Monitoring Quality Assurance. Water quality monitoring shall be conducted as required by Operation Permit No. 130542-007-SO-01 (including modifications, if any), or its successors.

PERMITTEE: Sarasota County Solid Waste Operations PERMIT NO: 130542-009-SC/08 Mr. Frank Coggins, Manager CCSWDC Phase I Gas Collection/Control System Construction

### SPECIFIC CONDITIONS: PART F - Landfill Gas Management

### Landfill Gas - NSPS and Title V Air Requirements.

- a. This solid waste permit will meet the statutory requirement to obtain an air construction permit before modifying or constructing a source of air pollution, except for those landfills that are subject to the prevention of significant deterioration (PSD) requirements of Chapter 62-212, F.A.C. Facilities that are subject to the PSD requirements shall obtain an air construction permit from the Bureau of Air Regulation prior to beginning construction or modification pursuant to Rule 62-210.400, F.A.C.
- b. The permittee shall comply with any applicable Title V air operation permit application requirements of Chapter 62-213, F.A.C., and 40 CFR 60, Subparts WWW and CC, as adopted by reference at Rule 62-204.800, F.A.C. Title V Permit applications shall be submitted to the District Air Program Administrator or County Air Program Administrator with air permitting authority for the landfill.
- c. The permittee shall submit to the Division of Air Resources Management, Department of Environmental Protection, Mail Station 5500, 3900 Commonwealth Blvd., Tallahassee, FL 32399-3000, any amended design capacity report and any Non-Methane Organic Compound (NMOC) emission rate report, as applicable, pursuant to 40 CFR 60.757(a)(3) and (b).

### Gas Monitoring and Control.

- a. Landfill gas shall be monitored to demonstrate compliance with the criteria established in Rule 62-701.530(1)(a), F.A.C. (less than 25% of the lower explosive limit (LEL) for combustible gases in structures and less than 100% of the LEL for combustible gases at or beyond the property boundary).
- b. The owner or operator shall control landfill gas after the shutdown of the active landfill gas collection system (i.e., gas is no longer routed to the boiler or the flare). In the event that a passive gas venting system is required the owner or operator shall submit an application for minor permit modification to authorize its construction/operation.
- 3. Gas Monitoring Locations. Landfill gas monitoring shall be conducted as required by Operation Permit No. 130542-007-SO-01 (including modifications, if any), or its successors.
- 4. Gas Remediation. In the event that the Lower Explosive Limit (LEL) is greater than 25% inside structures both on and off of the landfill site, or greater than 100% at the property boundary, the owner shall submit to the Department, within 7 days of detection, a remediation plan detailing the nature and extent of the problem and the proposed remedy. The remedy shall be completed within 60 days of detection unless otherwise approved by the Department.

PERMITTEE: Sarasota County Solid Waste Operations PERMIT NO: 130542-009-SC/08
Mr. Frank Coggins, Manager CCSWDC Phase I Gas Collection/Control System Construction

### SPECIFIC CONDITIONS: PART G - Closure and Long-Term Care Requirements

- 1. Closure Permit Requirements. No later than ninety (90) days prior to the date when wastes will no longer be accepted for portions of the landfill which have reached closure design dimensions, the landfill owner or operator shall submit a closure permit application to the Department, in order to assure conformance with all applicable Department rules. A closure permit is required prior to implementing closure related activities.
- 2. Final Cover. Portions of the landfill which have been filled with waste to the extent of designed dimensions shall be closed (shall receive final cover) within 180 days after reaching design dimensions, in accordance with Rule 62-701.500(7)(g), F.A.C. and all applicable requirements of Department rules.
- 3. Long-Term Care Requirements.
  - a. The owner or operator shall perform long-term care for the site in accordance with Rule 62-701.620, F.A.C., and the conditions of Operation Permit No. 130542-007-SO-01 (including modifications, if any), or its successors.
  - b. Long-term care includes, but is not limited to, water quality, leachate and gas monitoring, maintenance of the final cover system, maintenance of the leachate collection and removal system, erosion control, and the prevention of ponding within disposal areas.
- 4. Use of Closed Landfill Areas. Prior to implementation, the owner or operator shall submit a plan for any proposed uses of the closed portions of the landfill to the Department for approval. This plan shall include a description of the proposed use and evaluation of the impact on the existing landfill systems (e.g. final cover, leachate collection, bottom liner), engineering designs, calculations and plans as appropriate, etc. The proposed activity shall not be initiated without prior Department approval, and may require a permit modification or separate permit.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Deborah A. Getzoff District Director Southwest District

### ATTACHMENT 1

SPECIFIC CONDITION	SUBMITTAL DUE DATE	REQUIRED ITEM
A.4	No later than January 1, 2014	Notification of date of permit renewal application submittal
	No later than May 1, 2014	Submit application for permit renewal
A.9.a.	Within 24 hours of discovery	Notification of sinkholes or subsurface instability
	Within 7 days of verbal notification	Written notification & corrective action plan
B.2.a.	Within 60 days of completion	Submit certification of construction completion, record drawings, etc.
В.4.	At least 1 week prior	Notify of preconstruction meeting
	No later than 2 week after pre-construction meeting	Submit meeting minutes
B.5.b.	Monthly, by the 15 <sup>th</sup> each month	Submit monthly progress report & schedule
C.6.b.	Within 24 hours of discovery	Notification of: sinkholes, failure of landfill systems or equipment, etc.
	Within 7 days of verbal notification	Written notification & corrective action plan



# Florida Department of Environmental Protection

Southwest District 13051 N. Telecom Parkway Temple Terrace, Florida 33637-0926 Charlie Crist Governor

Jeff Kottkamp Lt. Governor

Michael W. Sole Secretary

### NOTICE OF FINAL PERMIT

### **ELECTRONIC MAIL**

[fcoggins@scgov.net]

In the Matter of an Application for Permit by:

Mr. Frank Coggins, Manager Sarasota County Solid Waste Operation 4000 Knights Trail Road Nokomis, FL 34275-3610 DEP File No. 1150089-005-AC Sarasota County

Dear Mr. Coggins:

Enclosed is Final Permit Number 1150089-005-AC. This permit authorizes Sarasota County Solid Waste Operations to construct a landfill gas open candlestick flare at the Sarasota County Central County Solid Waste Disposal Complex landfill. This facility is located at 4000 Knights Trail Road in Nokomis, Sarasota County, Florida. This permit is issued pursuant to Section(s) 403.087, Florida Statutes.

Any party to this order has the right to seek judicial review of it under section 120.68 of the Florida Statutes, by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Mara Grace Nasca District Air Program Administrator Southwest District

MGN/DRZ/pp Enclosures Permittee: Sarasota Board of County Commissioners

Facility Name: Sarasota County Central County Solid Waste Disposal Complex

FINAL Air Construction Permit No.: 1150089-005-AC

### **CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Fin	ıa]
Permit(s) (including the Final Permit(s)) was sent by electronic mail before the close of business on	
to the person(s) listed:	

Mr. Frank Coggins, Manager Sarasota County Solid Waste Operations [fcoggins@scgov.net]

Mr. Carlo Lebron, P.E. HDR Engineering, Inc. [Carlo.Lebron@hdrinc.com]

Mr. John Hickey
Sarasota County ESBC Air Quality
[jhickey@scgov.net]

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

(Clerk)	(Date)	





# Florida Department of Environmental Protection

Southwest District 13051 N. Telecom Parkway Temple Terrace, Florida 33637-0926 Charlie Crist Governor

Jeff Kottkamp Lt. Governor

Michael W. Sole Secretary

### PERMITTEE:

Sarasota Board of County Commissioners Sarasota County Solid Waste Operations 4000 Knights Trail Road Nokomis, FL 34275-3610 FINAL Permit No: 1150089-005-AC

County: Sarasota

Effective Date: 05/08/2009 Expiration Date: 12/31/2010 Project: Landfill Gas Flare

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-204, 62-210, 62-212, 62-213, 62-296, 62-297, and Chapter 62-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the Florida Department of Environmental Protection and as specifically described below:

This permit authorizes the construction and initial operation of a landfill gas (LFG) flare at the Sarasota County Central County Solid Waste Disposal Complex Landfill as described below.

Open Candlestick Utility Flare Control Device for Emission Unit (EU) 001 - Municipal Solid Waste Landfill - The landfill gas (LFG) open candlestick flare will be a control device on the existing emissions unit at this facility, which is a Class I municipal solid waste landfill (EU 001). In conjunction with a new LFG gas collection system, LFG will be collected from Phase I of the landfill and piped to the new open candlestick flare to be combusted. (Note: This flare has been sized to handle the expected LFG generation from the landfill through the year 2024 and will be used to control LFG from Phase II of the landfill, which is not expected to receive solid waste until 2010.) The flare will be a control device for odor, volatile organic compounds (VOC), hazardous air pollutants (HAPs), and non-methane organic compounds (NMOC). The flare is designed to achieve 98% destruction efficiency of VOC and NMOC. The candlestick flare will be designed to combust up to 5,500 scfm of LFG collected from the landfill, and will be equipped with a pilot flame fueled by propane/natural gas, a pilot monitoring thermocouple, a main flame monitoring thermocouple, an inlet flame arrestor, and a flame flashback indicator.

This flare is being installed voluntarily to proactively reduce LFG emissions from this facility, and therefore, at this time this flare is <u>not</u> subject to the NSPS Subpart WWW and NSPS Subpart A 40 CFR 60.18 flare control device requirements (see Federal Rule Applicability below). (Note: The flare will be designed and installed with the capability to meet the above NSPS requirements in anticipation of the flare potentially being used in the future as an NSPS Subpart WWW LFG control device.)

### Passive Solar Activated Safety Flares (Existing EU 004)

Upon completion of the new landfill gas collection system and the new LFG candlestick flare, the existing passive solar-activated safety flares located at the leachate collection sumps/wells will be removed and the sumps/wells connected to the gas collection system such that the LFG from these areas is controlled by the new candlestick LFG flare. These passive solar flares are included in the current facility Title V air operation permit (1150089-004-AV) as Emission Unit 004 in Appendix U-1, List of Unregulated Emission Units and or Activities.

### **PERMITTE:**

FINAL Permit No.: 1150089-005-AC Sarasota County Solid Waste Operations Project: Landfill Gas Flare

Sarasota County Central County Solid Waste Disposal Complex

### Federal Rule Applicability

This facility is engaged in landfilling of municipal solid waste (MSW). This landfill has a design capacity greater than 2.5 million megagrams by mass and 2.5 million cubic meters by volume, thereby subjecting this facility to the requirements of NSPS 40 CFR 60 Subpart WWW (Standards of Performance for Municipal Solid Waste Landfills), as adopted by reference in Rule 62-204.800(8)(b), F.A.C. The November 12, 2008 NMOC emission estimate report for this landfill, based on the 2005 Tier 2 site sampling and the projected yearly waste acceptance rates, established that the current emissions of NMOC are less than 50 megagrams per year. Therefore this facility is not currently subject to the collection and control system requirements of NSPS Subpart WWW, nor to NESHAP 40 CFR 63 Subpart AAAA (National Emission Standards for Hazardous Air Pollutants (NESHAP) for Municipal Solid Waste Landfills). The November 12, 2008 report did project that NMOC emissions would exceed the 50 Mg/year level sometime in the middle of 2010. At that time the facility will be subject to the collection and control system requirements of NSPS Subpart WWW, and will also become subject to NESHAP Subpart AAAA. This will require submittal of an NSPS Subpart WWW collection and control system design plan within 12 months of the date of the NMOC report that establishes that NMOC emissions are over 50Mg/year, with the collection and control system to be installed 30 months from the date of that report.

### Facility Title V Major Source Status

Potential emissions from this facility, before the installation of the LFG candlestick flare, are less than the Rule 62-210.300(194), F.A.C. Title V major source levels. However, in accordance with the requirements of Rule 62-204.800(8)(b)74., F.A.C. and NSPS Subpart WWW 40 CFR 60.752(b), a facility subject to NSPS Subpart WWW is also subject to the Title V permitting requirements. Therefore at the time of this permit this facility is a Title V source by designation. (Note: At some point after the flare begins operation carbon monoxide (CO) emissions from the flare will exceed the Title V major source level of 100 tons per year, making the facility a Title V major facility for CO.)

### PSD Major Source Status Note:

The current Sarasota County Central County Solid Waste Disposal Complex facility (prior to the addition candlestick flare) is a minor PSD source. Based on AP-42 emission factors, the maximum candlestick utility flare design capacity LFG flow rate for 8,760 hours per year, and the expected LFG generation rate in the year 2024, potential emissions of carbon monoxide (the pollutant with the highest emission rate) from the utility candlestick flare are estimated to be 247.9 tons per year, which is less than PSD major source level of 250 tons per year. (Note: At some point after the year 2024, as the LFG generation rate continues to increase CO emissions from the flare (and other LFG combustion sources at the facility) could exceed the PSD major source level of 250 tons per year, making the facility a PSD major facility for CO.)

### **Facility Information Summary:**

Site Name: Sarasota County Central County Solid Waste Disposal Complex Landfill

Location: 4000 Knights Trail Road in Nokomis, Sarasota County

UTM: 17-362.51 E 3009.03 N Latitude: 27°11'49.62" Longitude: 82°23'17.14"

Facility ID No: 1150089

Emission Unit (EU) ID No.: 001 - Class I Municipal Solid Waste Landfill w/LFG Candlestick Flare

PERMITTE: FINAL Permit No.: 1150089-005-AC

**Project:** Landfill Gas Flare

Sarasota County Solid Waste Operations

Sarasota County Central County Solid Waste Disposal Complex

### Permitting History/Affected Permits

This municipal solid waste landfill facility is currently permitted on Title V Air Operation Permit 1150089-004-AV.

### **Attachments to This Permit:**

- General Conditions (version dated 11/1/05)

### SPECIFIC CONDITIONS:

### Section A. Facility-Wide Specific Conditions

- **A1.** General Conditions A part of this permit is the attached 15 General Conditions. [Rule 62-4.160, F.A.C.]
- A2. Other Requirements Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C., or any other requirements under federal, state or local law. [Rule 62-210.300, F.A.C.]
- A3. General Particulate Emission Limiting Standards: General Visible Emissions Standard Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C. [Rules 62-296.320(4)(b)1. & 4., F.A.C.]
- **A4.** General Pollutant Emission Limiting Standards: Objectionable Odor Prohibited No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An objectionable odor is any odor present in the outdoor atmosphere, which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance.

[Rules 62-210.200 (Definition of "Objectionable Odor"), and 62-296.320(2), F.A.C.]

- A5. Federal Rule Applicability This facility is subject to the applicable requirements of Federal New Source Performance Standard (NSPS) 40 CFR 60 Subpart WWW (Standards of Performance for Municipal Solid Waste Landfills)\*, as adopted by reference in Rule 62-204.800(8)(b), F.A.C., and the 40 CFR 60 Subpart A General Provisions\* as adopted by reference in Rule 62-204.800(8)(d), F.A.C.. [Rules 62-204.800(8), F.A.C.; NSPS 40 CFR 60 Subparts WWW and A]
  - (\* <u>Permitting Note</u> For the complete requirements of NSPS 40 CFR 60 Subpart WWW, and the Subpart A General Provisions, see Appendix NSPS 40 CFR 60 Subpart WWW and Appendix NSPS 40 CFR 60 Subpart A included as appendices to the current Title V air operation permit for the Sarasota County Central County Solid Waste Disposal Complex Landfill (currently Title V Air Operation Permit 1150089-004-AV).)

**PERMITTE:** 

FINAL Permit No.: 1150089-005-AC Sarasota County Solid Waste Operations Project: Landfill Gas Flare

Sarasota County Central County Solid Waste Disposal Complex

A6. Special Compliance Tests - When the Department, after investigation, has good reason (such as complaints, increased visible emissions, or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emission unit and to provide a report on the results of said tests to the Department. [Rule 62-297.310(7)(b), F.A.C.]

### Section B. LFG Open Candlestick Flare Specific Conditions

### Operation Requirements

**B1.** Permitted Hours of Operation - The open candlestick utility flare is permitted for continuous operation (i.e., 8,760 hours/year).

[Rule 62-210.200, F.A.C. (Definition of Potential to Emit); EPSAP construction permit application submitted 12/18/09]

### Notification Requirements

- B2. Notification of Start of Operation of Candlestick Flare The permittee shall notify the Southwest Districts Air Compliance Section of the date of the initial operation of the candlestick flare controlling LFG from the landfill. The notification shall be submitted in writing within 15 days of operation of the flare. (See also Specific Condition No. C1, which requires submittal of a Title V operation permit revision application based on the date of initial operation.) [Rule 62-4.070(3), F.A.C.]
- B3. Notification of Relocation of the LFG Candlestick Flare The permittee shall notify the Southwest Districts Air Compliance Section any time the LFG candlestick flare is relocated to a different location on the site. The notification shall be submitted in writing within 15 days of operation of the flare at the new location. The notification shall include the following information.
  - a. The date operation of the flare was terminated at its previous location
  - The date the flare was relocated to its current location.
  - c. A description of the new location, including a site plan of the facility showing the new and old location.
  - d. The reason for relocation of the flare.

[Rule 62-4.070(3), F.A.C.]

PERMITTE: FINAL Permit No.: 1150089-005-AC Sarasota County Solid Waste Operations Project: Landfill Gas Flare

Sarasota County Solid Waste Operations Sarasota County Central County Solid Waste Disposal Complex

### Section C - Title V Operation Permit Revision

C1. <u>Submittal of Application for Title V Operation Permit Revision</u>\* - An application to revise the Title V air operation permit for this facility to incorporate the LFG candlestick flare shall be submitted to the Air Permitting Section of the Southwest District Office of the Department <u>no later than 180 days after initial operation of the candlestick flare</u> controlling LFG from the landfill. To properly apply for Title V operation permit revision, the applicant shall submit the following:

- a. the appropriate <u>application form</u> (DEP Form No. 62-210.900(1) *Application for Air Permit Long Form*), including a certification that construction was completed and noting any deviations from the construction permit application; and
- b. a description of the location of the candlestick flare (please include site plan showing the actual flare location).

[Rules 62-4.070(3), 62-4.220, 62-213.420(1)(a)1., and 62-297.310(7)(a)1., F.A.C.]

(\* <u>Permitting Note</u> - Depending on the timing of installation of the LFG collection system and candlestick flare, the permittee may request that incorporation of the candlestick flare into the Title V operation permit be handled as part of the upcoming Title V permit renewal. The Title V renewal application is due to be submitted no later than 10/26/09.)

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Mara Grace Nasca District Air Program Administrator Southwest District

### **ATTACHMENT - GENERAL CONDITIONS**

- 1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, Florida.Statutes (F.S.). The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- 3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
- 4. Not applicable to Air Permits.
- 5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
- 6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
- 7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
  - a. Have access to and copy any records that must be kept under conditions of the permit;
  - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - c. Sample or monitor any substances or parameters at any location reasonable necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

- 8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - a. A description of and cause of noncompliance; and
  - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

### ATTACHMENT - GENERAL CONDITIONS

- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Section 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
- 10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
- 11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-730.300 F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
- 12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
- 13. This permit also constitutes:
  - ( ) Determination of Best Available Control Technology (BACT)
  - ( ) Determination of Prevention of Significant Deterioration (PSD)
  - ( ) Compliance with New Source Performance Standards (NSPS)
- 14. The permittee shall comply with the following:
  - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
  - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
  - c. Records of monitoring information shall include:
    - 1. the date, exact place, and time of sampling or measurements;
    - 2. the person responsible for performing the sampling or measurements;
    - 3. the dates analyses were performed;
    - 4. the person responsible for performing the analyses;
    - 5. the analytical techniques or methods used;
    - 6. the results of such analyses.
- 15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.
- 16. Not applicable to Air Permits.
- 17. Not applicable to Air Permits.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
AUG 13 2010
SOUTHWEST DISTRICT
TAMPA

### ATTACHMENT B CQA DAILY LOG



Project Name: (	CCSWD	C Phase I	LFG Constr	uction - Sequence 1	Date: 1/20/2010	Day: Wednesday	
Project Owner:	Sarasota	County			Contractor: SCS Field Services		
HDR Project No	o. 096-12	4466			CQA: Carlos Restrepo (HDR)		
Weather Cond	itions:						
Temperature				Weather		Precipitation	
Max.		Min.		Clear	Other		
64 F		<b>49</b> F		Sunny		none	
Contractor's E	mployee	s / Title			Equipment Used		
Jhonny Meier			Superintend	ent	Forklift – JLG 1044C		
Brandon Swift			Welder / Driv	ver	Excavator - Kobalko		
Abel Sanchez			Welder / Driv	ver	Truck F-250		
					Flat bed F-450		
						·	
Work Perform	ed:						
• scs	arrived o	on site at (	6:30 am., beg	gan moving 4" SDR 9 and	d 18" SDR 17 pipe from staging area	(south of Phase II) to an	
autho	orized ar	ea on the	west side of	Phase I.			
• Pipe	crew be(	gan fusing	18" SDR 17	' (Header) for stringers. A	max. of 200 LF stringers are used.		
• HDR	met with	Ed Russ	(Sarasota C	county) to discuss concer	ns on Phase I fill sequence. LFG con	struction will be adjusted to	
exist	ing cond	itions to e	ensure minim	um cover and slopes are	met per the construction documents.		
• Fusir	ıg pipe w	as stoppe	ed for 1 hour	until forklift used to move	e pipe was repaired.		
Pipe	crew cor	ntinue fus	ing 18" SDR	17. SCS proceeded to ca	ap open ends of all pipes. No other a	ctivity conducted.	
• Total	18" SDF	R 17 pipe	fused 1/20/2	010 1000 LF			
Total	18" SDF	R 17 plpe	fused week	of 1/11/2010 — 1/15/2010	-800 LF (not under HDR supervision	<u> </u>	
• Rem	aining pi	pe (not fu	sed) – 100 L	F			
• scs	left the s	site at 4:3	0 pm.			<u> </u>	
		•					
•							



Project Name: CCSWDC Phase I LFG Construction - Sequence 1 Date: 1/21/2010 Day: Thursday Project Owner: Sarasota County Contractor: SCS Field Services HDR Project No. 098-124466 CQA: Carlos Restrepo (HDR)  Weather Conditions:  Temperature Weather Precipitation Max. Min. Clear Other  76 F 87 F Partly sunny none  Contractor's Employees / Title Equipment Used Ihonny Meier Superintendent Forklift - JLG 1044C Brandon Swift Welder / Driver Excavator - Kobalko Abel Sanchez Welder / Driver Truck F-250 Flat bed F-450  Work Performed:  SCS arrived on site at 7:00 am Pipe crew began flusing 4" SDR 9 (Condensate Line) for stringers. A max. of 240 LF stringers are used.  It was clarified to SCS who will be providing the soils for the project. County will provide backfill / bedding for GW / trenches. SCS will provide granular material for GWs  Hyatt started survey for silt fence location around Phase I and bales on perfmenter swale towards the Flare Station Pad SCS left the site at 5:00 pm.							
HDR Project No. 096-124486  Weather Conditions:  Temperature  Weather  Weather  Other  Other  Frecipitation  Max.  Min.  Clear  Other  67 F  Partly sunny  Inone  Contractor's Employees / Title  Brandon Swift  Welder / Driver  Excavator - Kobalko  Abel Sanchez  Welder / Driver  Flat bed F-450  Flat bed F-450  Work Performed:  SCS arrived on site at 7:00 am  Pipe crew began fusing 4" SDR 9 (Condensate Line) for stringers. A max. of 240 LF stringers are used.  It was clarified to SCS who will be providing the soils for the project. County will provide backfill / bedding for GW/ trenches.  SCS will provide granular material for GWs  Hyatt started survey for slit fence location around Phase I and bales on perimenter swale towards the Flare Station Pad  SCS finished fusing 4" SDR 9 pipes at 4:30 pm. Proceeded to cap open ends of all pipes.  Total 4" SDR 9 pipe fused 1/21/2010 – 2560 LF  SCS left the site at 5:00 pm.	Project Nan	ne: CCSWD	C Phase	LFG Constr	uction - Sequence 1	Date: 1/21/2010	Day: Thursday
Weather Conditions:  Temperature Weather Precipitation  Max. Min. Clear Other  6 F 87 F Partly sunny none  Contractor's Employees / Title Equipment Used  Jhonny Meier Superintendent Forklift – JLG 1044C  Brandon Swift Welder / Driver Excavator - Kobalko  Abel Sanchez Welder / Driver Truck F-250  Flat bed F-450  Work Performed:  SCS arrived on site at 7:00 am  Pipe crew began fusing 4" SDR 9 (Condensate Line) for stringers. A max. of 240 LF stringers are used.  It was clarified to SCS who will be providing the soils for the project. County will provide backfill / bedding for GW/ trenches.  SCS will provide granular material for GWs  Hyatt started survey for slif fence location around Phase I and bales on perfmenter swale towards the Flare Station Pad  SCS finished fusing 4" SDR 9 pipes at 4:30 pm. Proceeded to cap open ends of all pipes.  Total 4" SDR 9 pipe fused 1/21/2010 – 2560 LF  SCS left the site at 5:00 pm.	Project Own	ner: Sarasot	a County			Contractor: SCS Field Services	
Temperature Weather Precipitation  Max. Min. Clear Other  76 F 97 Partly sunny none  Contractor's Employees / Title Equipment Used  Jhonny Meler Superintendent Forklift – JLG 1044C  Brandon Swift Welder / Driver Excavator - Kobalko  Abel Sanchez Welder / Driver Truck F-250  Flat bed F-450  Work Performed:  SCS arrived on site at 7:00 am  Pipe crew began fusing 4" SDR 9 (Condensate Line) for stringers. A max. of 240 LF stringers are used.  It was clarified to SCS who will be providing the soils for the project. County will provide backfill / bedding for GW / trenches.  SCS will provide granular material for GWs  Hyatt started survey for slift fence location around Phase I and bales on perfmenter swale towards the Flare Station Pad  SCS finished fusing 4" SDR 9 pipes at 4:30 pm. Proceeded to cap open ends of all pipes.  Total 4" SDR 9 pipe fused 1/21/2010 – 2560 LF  SCS left the site at 5:00 pm.	HDR Projec	t No. 096-12	24466			CQA: Carlos Restrepo (HDR)	
Max. Min. Clear Other  67 F Partly sunny none  Contractor's Employees / Title Equipment Used  Jhonny Meier Superintendent Forklift – JLG 1044C  Brandon Swift Welder / Driver Excavator - Kobalko  Abel Sanchez Welder / Driver Truck F-250  Flat bed F-450  Work Performed:  SCS arrived on site at 7:00 am  Pipe crew began fusing 4" SDR 9 (Condensate Line) for stringers. A max. of 240 LF stringers are used.  It was clarified to SCS who will be providing the soils for the project. County will provide backfill / bedding for GW / trenches.  SCS will provide granular material for GWs  Hyatt started survey for slit fence location around Phase I and bales on perfmenter swale towards the Flare Station Pad  SCS finished fusing 4" SDR 9 pipes at 4:30 pm. Proceeded to cap open ends of all pipes.  Total 4" SDR 9 pipe fused 1/21/2010 – 2560 LF  SCS left the site at 5:00 pm.	Weather Co	onditions:					
Contractor's Employees / Title  Equipment Used  Jhonny Meier  Superintendent  Forklift – JLG 1044C  Brandon Swift  Welder / Driver  Excavator - Kobalko  Abel Sanchez  Welder / Driver  Flat bed F-450  Work Performed:  SCS arrived on site at 7:00 am  Pipe crew began fusing 4" SDR 9 (Condensate Line) for stringers. A max. of 240 LF stringers are used.  It was clarified to SCS who will be providing the soils for the project. County will provide backfill / bedding for GW / trenches.  SCS will provide granular material for GWs  Hyatt started survey for slit fence location around Phase I and bales on perimenter swale towards the Flare Station Pad  SCS finished fusing 4" SDR 9 pipes at 4:30 pm. Proceeded to cap open ends of all pipes.  Total 4" SDR 9 pipe fused 1/21/2010 – 2560 LF  SCS left the site at 5:00 pm.	Temperatur	е			Weather		Precipitation
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Abel Sanchez  Welder / Driver  Truck F-250  Flat bed F-450  Work Performed:  SCS arrived on site at 7:00 am  Pipe crew began fusing 4" SDR 9 (Condensate Line) for stringers. A max. of 240 LF stringers are used.  It was clarified to SCS who will be providing the soils for the project. County will provide backfill / bedding for GW / trenches.  SCS will provide granular material for GWs  Hyatt started survey for slit fence location around Phase I and bales on perimenter swale towards the Flare Station Pad  SCS finished fusing 4" SDR 9 pipes at 4:30 pm. Proceeded to cap open ends of all pipes.  Total 4" SDR 9 pipe fused 1/21/2010 – 2560 LF  SCS left the site at 5:00 pm.	Jhonny Mei	er		Superintend	ent	Forklift JLG 1044C	
Flat bed F-450  Work Performed:  SCS arrived on site at 7:00 am  Pipe crew began fusing 4" SDR 9 (Condensate Line) for stringers. A max. of 240 LF stringers are used.  It was clarified to SCS who will be providing the soils for the project. County will provide backfill / bedding for GW / trenches. SCS will provide granular material for GWs  Hyatt started survey for slit fence location around Phase I and bales on perimenter swale towards the Flare Station Pad  SCS finished fusing 4" SDR 9 pipes at 4:30 pm. Proceeded to cap open ends of all pipes.  Total 4" SDR 9 pipe fused 1/21/2010 – 2560 LF  SCS left the site at 5:00 pm.	Brandon Sv	vift		Welder / Dri	ver	Excavator - Kobalko	
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<ul> <li>Total 4" SDR 9 pipe fused 1/21/2010 – 2560 LF</li> <li>SCS left the site at 5:00 pm.</li> </ul>	• H	lyatt started	survey fo	r silt fence lo	cation around Phase I and	d bales on perimenter swale towards	the Flare Station Pad
SCS left the site at 5:00 pm.	• s	CS finished	fusing 4"	SDR 9 pipes	at 4:30 pm. Proceeded to	cap open ends of all pipes.	
	• T	otal 4" SDR	9 pipe fus	sed 1/21/201	0 – 2560 LF		
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Project Name: CCSWI	OC Phase	LFG Constr	uction - Sequence 1	Date: 1/22/2010	Day: Friday
Project Owner: Saraso	ta County			Contractor: SCS Field Services	
HDR Project No. 096-1	124466			CQA: Carlos Restrepo (HDR)	
Weather Conditions:					
Temperature			Weather		Precipitation
Max.	Min.		Clear	Other	
70 F	59 F			Overcast	0.11 inches
				,	
Contractor's Employe	es / Title			Equipment Used	
Jhonny Meier		Superintend	ent	Forklift – JLG 1044C	
Brandon Swift		Welder / Driv	ver	Excavator - Kobalko	
Abel Sanchez		Welder / Driv	ver	Truck F-250	
Steve Miller		Welder / Driv	ver	Flat bed F-450	
Work Performed:					
SCS arrived	on site at	7:00 am			
Pipe crew co	ntinue fusi	ing 4" SDR 9	(Condensate Line) for st	ringers at the staging area. A max. o	f 240 LF stringers are used.
Ed Russ (Sa	rasota Cou	unty) required	SCS to regrade disturbe	ed area on top of Phase I to allow for	proper drainage. SCS regraded
area.					
Hyatt finisher	d survey fo	or silt fence lo	cation around Phase I ar	nd bales on perimenter swale toward	s the Flare Station Pad
SCS needed	clarification	on on 1 hrwa	it after hydrating bentonit	te for wells. It was informed to SCS t	hat if bentonite manufacturer
provides a co	ertified lette	er stating a d	ifferent time, it will be con	nsidered	
SCS took so	ll samples	for sieve ana	llysis. Soils were taken fr	om the existing borrow area south of	Phase II (east borrow area)
SCS finished	fusing 4"	SDR 9 pipes	at 4:30 pm. Proceeded t	o cap open ends of all pipes.	
Total 4" SDR	R 9 pipe fus	sed 1/22/2010	0 – 1840 LF		·
SCS left the	site at 5:00	) pm			
No work peri	formed dur	ing the week	end of 1/23-1/24/2010		
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	E. CCSVVD	C Phase	I LFG Constr	uction - Sequence 1	Date: 1/25/2010	Day: Monday
Project Own	er: Sarasot	a County			Contractor: SCS Field Serv	rices
IDR Project	No. 096-1	24466			CQA: Carlos Restrepo (HD	
Neather Co	nditions:					
Temperature	·			Weather		Precipitation
лах.		Min.		Clear	Other	-
88 F		49 F			Light rain / Cloudy	0.39 inches
			·	I		
Contractor's	Employe	es / Title			Equipment Used	
Ihonny Meie	Γ		Superintend	ent	Forklift JLG 1044C	
Steve Miller			Welder / Dri	ver	Excavator - Kobalko	
Abel Sanche	z		Welder / Dri	ver	Truck F-250	
Ray Perez			Welder / Dri	ver	Flat bed F-450	
loel Sanche	ż		Welder / Dri	ver		
		-				-
• Pi	pe crew be	gan fusing	g 4" SDR 11	(Riser / Laterals) for striboring testing (STP-1)	ingers. A max. of 240 LF string at the flare sation area. 50 ft b	oring was drilled. Ardaman took soil
		_			and bedding in trenches , for	
				n. Proceeded to cap or	r stringers. A max. of 160 LF s	tringers are used.
	<del></del> _		sed 1/25/201		ben ends of all pipes.	<u> </u>
			used1/25/201			
			used 1/25/20			
• Dr	ill rig mobil	ized on si	te. Operation	s will not begin until silt	fence is placed	
• S0	S left the	site at 5:0	0 pm.			
						<u> </u>







Project Name: CCSWDC Phase I LFG Construction - Sequence 1				Date: 1/26/2010	Day: Tuesday	
Project Owner: Sa	rasota County		Contractor: SCS Field Services			
HDR Project No. 096-124466				CQA: Carlos Restrepo (HDR)		
Weather Condition	ns:			<u>-</u>		
Temperature			Weather		Precipitation	
Max.	Min.		Clear	Other		
63 F	47 F		Sunny		none	
		•				
Contractor's Emp	oloyees / Title			Equipment Used		
Jhonny Meier	5	Superintend	ent	Forklift – JLG 1044C		
Steve Miller Welder / Driver			Excavator - Kobalko			
Steve Miller		Welder / Dri	ver	Excavator - Robalko		
Steve Miller Abel Sanchez		Welder / Dri Welder / Dri		Truck F-250	<u>-</u>	
	V		ver			
Abel Sanchez	\ \ \	Nelder / Dri	ver	Truck F-250		
Abel Sanchez Ray Perez	\ \ \	Welder / Dri	ver	Truck F-250		
Abel Sanchez Ray Perez	\ \ \	Welder / Dri	ver	Truck F-250		

# 0

- Pipe crew began fusing 6" SDR 11 (Perforated) and 6" SDR 11 (Solid) pipes for wells
- HDR clarified to SCS that each wellhead will have a condensate and air return line with a cap until HDR determines which well will have a pump system installed
- HDR discussed with SCS how the header pipe will be installed underneath 2 existing elliptical reinforced concrete pipes (ERCPs)
   located at the east side of yard waste processing area. RCPs discharge stormwater from yard waste processing area to the east perimeter swale. HDR will coordinate with SCS for revised pipe layout in this area
- Perforated and solid pipe lengths for wells 1 26 were verified. Incorrect lengths were reported to SCS
- Total 6" SDR 11 perforated pipe 1/26/2010 532 LF
- Total 6" SDR 11 solid pipe 1/26/2010 364 LF (includes 10 ft solid pipe plus 4 ft above grade stickup)
- SCS proceeded to cap open ends of all pipes. SCS left the site at 5:00 pm
- During Progress Meeting #2, the following was addressed:
- SCS will need to install silt fence close to the existing downchute pipes on all slopes. Straw bales will be placed on either side of downchute pipes to prevent any silt moving towards the perimeter swale.
- . SCS will move existing downchute pipes during excavation. Downchute must be placed back at the end of the day
- Well GW-19 can be moved closest to the outside of stormwater bench
- Veolia (Landfill Operator) will need to regrade north slope of Phase I in order to meet design grades (intermediate cover). SCS will
  need to coordinate with Veolia for construction in this area.
- HDR will provide detail information on how the LFG Header pipe will cross the bottom liner system of Phase I at the southeast comer



Project Name: CCSWD	C Phase	LFG Constr	uction - Sequence 1	Date: 1/27/2010	Day: Wednesday		
Project Owner: Sarasot	a County			Contractor: SCS Field Services			
HDR Project No. 096-1:	24466			CQA: Carlos Restrepo (HDR)			
Weather Conditions:							
Temperature			Weather		Precipitation		
Мах.	Min.		Clear	Other			
63 F	44 F		Sunny		none		
	•						
Contractor's Employe	es / Title		<del></del>	Equipment Used			
Jhonny Meier		Superintend	ent	Forklift – JLG 1044C			
Steve Miller		Welder / Driv	ver	Excavator - Kobalko			
Abel Sanchez		Welder / Driv	ver	Truck F-250			
Ray Perez		Welder / Driv	ver	Flat bed F-450			
Joel Sanchez		Welder / Driv	ver				
Brandon Swift		Welder / Drh	ver				
Work Performed:					·		
SCS arrived	on site at	7:00 am.					
Pipe crew be	gan fusing	18" SDR 17	pipes and cross for U-tra	aps 1 - 3. U-traps to be completed du	ring header pipe installation.		
HDR verified	U-trap dir	nensions and	reported to SCS for corr	rections.			
Veolia (landfi	II operator	r) began regra	ading northwest slope of	Phase I.			
K & S Enviro	nmental (s	subcontractor	r) arrived on site to install	straw bales and silt fence. SCS still	needs to install temporary ditch		
block on the	south peri	imeter swale	(south of future Phase III	area)			
SCS proceed	led to cap	open ends o	of all pipes. SCS left the si	ite at 5:00 pm.			
		_					
_							
					<del></del>		
	<u> </u>						
	_			· · ·			
	_						



Designed Own	e: CCSWI	C Phase	LFG Constr	uction - Sequence 1	Date: 1/28/2010	Day: Thursday	
Project Own	er: Saraso	ta County			Contractor: SCS Field Services		
HDR Project	t No. 096-1	24466			CQA: Carlos Restrepo (HDR)		
Weather Co	nditions:						
Temperature	•			Weather		Precipitation	
Max.		Min.		Clear	Other		
70 F		51 F			Partly Cloudy	none	
Contractor's	s Employe	es / Title			Equipment Used		
honny Meie	er		Superintend	ent	Forklift – JLG 1044C		
Steve Miller			Laborer / Dri	iver	Excavator - Kobalko		
Abel Sanche	ez		Laborer / Dri	iver	Truck F-250		
Ray Perez			Laborer / Dri	iver	Flat bed F-450		
Joel Sanche	z		Laborer / Dri	iver	Articulated dump truck JLG		
Brandon Sw	ift		Laborer / Dri	iver	Dozer – Deere 450 J LGP		
red Harlan			Laborer / Dri	iver			
Nork Perfo	rmed:				•		
• 50	CS arrived	on site at	7:00 am. and	began hauling backfill m	naterial and bentonite to the tempora	ry staging area on Phase I	
• Ve	eolia (landf	ill operator	) continues re	egrading the northwest s	lope of Phase I.		
• K	&C Environ	mental (S	ubcontractor)	is not present to continu	ie installing silt fence. SCS installs re	emaining silt fence on northeast	
slo	ope						
• B	&H Drilling	(Subcontra	actor) began	drilling GW-9, GW-14, G	W-10. It was notified to SCS that co	nstruction operations can not be	
CC	nducted w	here silt fe	nce is not in	placed. (GW-14). Drill rig	moves to GW-10		
	re-assembl	ed well ca	sings are put	in place over 1 ft of grav	rel (bedding layer). HDR verified that	each well had the appropriate	
• Pr		net / hydra	ited bentonite	alayers			
	ckfili / geo						
ba		14 were n	ot completed	at the end of the day. W	ells covered as required in contract	documents	
• G	W 10, GW	;			lells covered as required in contract. CS that working hours are 10 hrs/day		
• G	W 10, GW-	ed operati	ons until 6:30				
• G' • So	W 10, GW- CS continu	ed operation	oris until 6:30				
• G'	W 10, GW- CS continu fell Schedu W Db	ed operation	oris until 6:30				
• G' • So	W 10, GW- CS continu /ell Schedu W Db	ed operation	ons until 6:30				
• G' • So • W G'	W 10, GW-CS continu Vell Schedu W Db 33' 0 34'	ed operations to the control of the	ons until 6:30				



Project Owner: Sand Project No. ( Weather Condition Femperature Max. 72 F Contractor's Em	096-1244				Contractor: SCS Field Service	ces	
Veather Condition Temperature Max. T2 F	ons:	66					
emperature  Max.  72 F					CQA: Carlos Restrepo (HDF	0	
Max. 72 F	Mir						
72 F	Mir			Weather		Precipitation	
_		1,		Clear	Other		
contractor's Em	51	F			Partly Cloudy	none ·	
Contractor's Em							
	ployees /	Title			Equipment Used		
honny Meier			Superintende	ent	Forklift - JLG 1044C		
teve Miller			Laborer / Dri	ver	2 X Excavator – Kobalko		
bel Sanchez			Laborer / Dri	ver	Truck F-250		
Ray Perez			Laborer / Dri	ver	Flat bed F-450	_	
oel Sanchez			Laborer / Dri	ver	Articulated dump truck - JLC	}	
Brandon Swift			Laborer / Dri	ver	Dozer – Deere 450 J LGP		
red Harlan			Laborer / Dri	ver		_	
Vork Performed	:						
SCS an	rived on s	site at 7	7:00 am, prod	ceeded to complete GW	<i>I</i> -10, GW-14	_	
K&C Er	vironmer	ntal (Su	ubcontractor)	continues installing silt	fence on east and north slope	. South slope does not have silt fence.	
straw b	ales are r	not plac	ced along the	east perimeter swale y	vet. Straw bales must be place	d before trench construction.	
• B&HE	Orilling (S	ubcont	ractor) starts	drilling GW-11, GW-12	, GW-13, GW-15		
• Location	n of GW-	- 13 was	moved 3 ft r	orth to avoid damaging	existing downchute pipe		
Pre-ass	embled v	vell cas	sings are put	in place over 1 ft of gra	vel (bedding layer). HDR verifi	ed that each well had the appropriate	
backfill	/ geonet	hydra	ted bentonite	layers			
• GW-15	was not	comple	ted at the en	d of the day. Wells cov	ered as required in contract do	cuments	
SCS lef	ft the site	at 6:00	) pm				
	hedule (6						
	Ob Solid		rforated				
	3' 14'	22'					
	5' 14' 3' 14'	24'				<u> </u>	
	2' 14'	21				<u> </u>	





Project N	lame: Co	CSWD	C Phase	I LFG Constr	ruction - Sequence 1	Date: 1/30/2010	Day: Saturday	
Project C	wner: S	arasota	County			Contractor: SCS Field Ser	rvices	
HDR Pro	ject No.	096-12	4466			CQA: Carlos Restrepo (HDR)		
Weather	Conditi	ons:				_	-	
Tempera	ture				Weather		Precipitation	
Max.			Min.		Clear	Other		
<b>72</b> F			54 F			Partly Cloudy	none	
Contract	tor's Em	ployee	s / Title			Equipment Used		
Jhonny M	leier			Superintend	ent	Forklift – JLG 1044C		
Steve Mil	ller			Laborer / Dr	iver	2 X Excavator – Kobalko		
Abel San	chez			Laborer / Dr	iver	Truck F-250		
Ray Pere	z			Laborer / Dr	iver	Flat bed F-450		
Joel San	chez			Laborer / Dr	iver	Articulated dump truck – JLG		
Brandon	Swift			Laborer / Dr	iver	Dozer – Deere 450 J LGP		
Fred Har	lan			Laborer / Dr	iver			
Work Pe	rformed	:						
•	SCS ar	rived o	n site at 7	7:00 am, pro	ceeded to complete GW	<i>l</i> -15		
•	В&Н	Drilling	(Subcont	ractor) starts	drilling GW-16, GW-17	, GW-18		
•	Pre-ass	semble	d well ca	sings are put	in place over 1 ft of gra	vel (bedding layer). HDR ver	rified that each well had the appropriate	
	backfill	/ geon	et / hydra	ted bentonite	e layers		, , -	
•	All well	s were	complete	ed at the end	of the day			
•	SCS pr	oceede	ed to pick	up blown litt	er around the north and	east slopes.		
•	SCS le	ft the s	ite at 3:30	D pm				
	141		45.0					
			6" SDR					
*	GW I		olid Pe 4' 19	erforated ,				
*	16 3		- 18					
*			4' 23	,				



Project Owner: Sarasota C HDR Project No. 096-1244 Weather Conditions: Temperature Max. Mir 68 F 62 Contractor's Employees A Johnny Meier Steve Miller	1.	Weather Clear	Contractor: SCS Field Se	
Weather Conditions: Temperature  Max. Mir 68 F 62  Contractor's Employees I	i.			<del>-</del>
Temperature  Max. Mir 68 F 62  Contractor's Employees /			- I	Precipitation
Max. Mir 68 F 62  Contractor's Employees / Johnny Meier				Precipitation
68 F 62  Contractor's Employees /		Clear		
Contractor's Employees	F		Other	
Johnny Meier	<del>-</del>		Cloudy	0.23
Johnny Meier		'		
· ·	Title	•	Equipment Used	
Steve Miller	Superintend	lent	Forklift – JLG 1044C	
	Laborer / Di	river	Excavator – Kobalko	-
Abel Sanchez	Laborer / Di	river	Truck F-250	-
Ray Perez	Laborer / Di	river	Flat bed F-450	
Joel Sanchez	Laborer / Di	river		
Brandon Swift	Laborer / Di	river		-
Fred Harlan	Laborer / Di	river	-	
		_		
Work Performed:				
SCS arrived on s	ite at 7:00 am			
B & H Drilling (St	ubcontractor) not w	orking today		
K&C Environment	ntal (Subcontractor	) continues installing sil	t fence on south slope	
SCS started repa	air of existing silf fe	nce installed by Veolia	(bench on east slope)	
HDR coordinated	with SCS for exce	avation at the southeast	comer of Phase I to locate	existing bottom liner where LFG header
will cross. Existin	g bottom liner was	found at approximately	3 ft below grade at the cros	ssing point. HDR will provide construction
	ader at this point.	•		
				Phase I. HDR clarified to SCS that gravel
			n the borrow pit once backfil	sting paved roads south and east of Phase I
		( airline return line) to F		a or dorrottoo xogiit
	fusing 4" SDR 9 for	· · · · · · · · · · · · · · · · · · ·		
		_	3 X 4"SDR 9 with elbows and	d cap, 6 X 4"SDR 9 with cap
SCS left the site	at 5:00 pm			



Project (			LFG COIISI	uction - Sequence 1	Date: 2/2/2010	Day:Tuesday
	Owner: Sarasot	a County			Contractor: SCS Field Services	
HDR Pro	oject No. 096-1	24466			CQA: Carlos Restrepo (HDR)	
Weather	Conditions:					
Tempera	ature			Weather		Precipitation
Max.		Min.		Clear	Other	
68 F		52 F			Cloudy	0.29
Contrac	tor's Employe	es / Title			Equipment Used	
Johnny N	Meier		Superintend	ent	Forklift – JLG 1044C	
Steve Mi	iller		Laborer / Dri	iver	Excavator - Kobalko	
Abel Sar	nchez		Laborer / Dr	iver	Truck F-250	
Ray Per	ez		Laborer / Dr	iver	Flat bed F-450	
Joel San	chez		Laborer / Dr	iver	Bobcat	
Brandon	Swift		Laborer / Dr	iver		
Fred Ha	rlan		Laborer / Dri	iver		
•	Pipe crew be SCS started of Due to weath	clearing a	rea at the flar		(6' risers)	
				The site at 12.00 pm		
*			ng #3, the fol	lowing was addressed:		
*	SCS will insta		ng #3, the fol	lowing was addressed:	area. Gravel access road at the so	utheast corner of Phase I is not
•	SCS will insta	all a 10° x	ng #3, the fol 20' gravel ac	lowing was addressed: cess road at the staging		
	SCS will insta required SCS will insta	all a 10' x	ng #3, the fol 20' gravel ac ales at èach	lowing was addressed: cess road at the staging downchute pipe, stormy	vater swale, temporary ditch block o	luring week of 2/8/2010 – 2/13/2010
•	SCS will insta required SCS will insta	all a 10' x all straw b ed installin	ng #3, the fol 20' gravel ac ales at each ng 4" SDR 9	lowing was addressed: cess road at the staging downchute pipe, stormy		luring week of 2/8/2010 – 2/13/2010
•	SCS will insta required SCS will insta SCS request reviewed and	all a 10' x all straw b ed installi	ng #3, the fol 20' gravel ac ales at each ng 4" SDR 9	lowing was addressed: cess road at the staging downchute pipe, stormw (condensate) and 2" SD	vater swale, temporary ditch block o	luring week of 2/8/2010 – 2/13/2010
•	SCS will insta required SCS will insta SCS request reviewed and	all a 10' x all straw b ed installi	ng #3, the fol 20' gravel ac ales at each ng 4" SDR 9	lowing was addressed: cess road at the staging downchute pipe, stormw (condensate) and 2" SD	vater swale, temporary ditch block o	luring week of 2/8/2010 – 2/13/2010 nt side of the header trench. HDR
•	SCS will insta required SCS will insta SCS request reviewed and	all a 10' x all straw b ed installi	ng #3, the fol 20' gravel ac ales at each ng 4" SDR 9	lowing was addressed: cess road at the staging downchute pipe, stormw (condensate) and 2" SD	vater swale, temporary ditch block o	luring week of 2/8/2010 – 2/13/2010 nt side of the header trench. HDR
•	SCS will insta required SCS will insta SCS request reviewed and	all a 10' x all straw b ed installi	ng #3, the fol 20' gravel ac ales at each ng 4" SDR 9	lowing was addressed: cess road at the staging downchute pipe, stormw (condensate) and 2" SD	vater swale, temporary ditch block o	luring week of 2/8/2010 – 2/13/2010 nt side of the header trench. HDR



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- TOJECK IN	lame: CCSWD	C Phase I	LFG Constr	uction - Sequence 1	Date: 2/3/2010	Day: Wednesday
Project C	wner: Sarasot	a County			Contractor: SCS Field Se	rvices
HDR Pro	ject No. 096-1	24466			CQA: Carlos Restrepo (H	DR)
Weather	Conditions:					· ·
Tempera	ture			Weather		Precipitation
Max.		Min.		Clear	Other	
67 F		52 F			Partly Cloudy	none
				•		<del></del> ,
Contract	tor's Employe	es / Title			Equipment Used	
Johnny N	/leier	-	Superintend	ent	Forklift – JLG 1044C	
Steve Mi	ller	1	Laborer / Dr	iver	2 X Excavator – Kobalko	
Abel Sar	chez	J	Laborer / Dr	iver	Truck F-250	
Ray Pere	ez		Laborer / Dr	iver	Flat bed F-450	
Joel San	chez	1	Laborer / Dr	iver	Bobcat	
Brandon	Swift	1	Laborer / Dr	iver		·
Fred Har	lan		Laborer / Dr	iver		
		_				•
Nork Pe	rformed:		_			
•	SCS arrived	on site at 7	:00 am			
•	B & H Drilling	(Subcontr	actor) starts	drilling GW-7, GW-8, G	GW-20, GW-22, GW-23, GW	-24, GW-25
•	Pre-assemble	ed well cas	ings are put	in place over 1 ft of gra	vel (bedding layer). HDR ve	rified that each well had the appropriate
	backfill / geor	net / hydrat	ted bentonite	e layers		
•	GW-8 was fill	ed with an	additional 2	2' of gravel. HDR report	ed to SCS to constantly veri	fy elevations. GW-8 was backfilled with
	1' soil, 3.5' hy	/drated ber	ntonite, and	1.5' of backfill		
•	The following	GWs were	e moved to I	ocate near the edge of	bench:	
	GW-7: 12' so					<u> </u>
	GW-22: 3.5' s					
	GW-23: 3' no GW-26: 5' ea				,	
•	-	_		ection HDR met with FI	OFP at 11:30 am to discuss	drilling operations and temperature of waste
						emperature of waste excavated from wells
		<del></del> -		concerns from FDEP.		
	GW-22 neede	ed an acce	ess ramp for	drill rig. (GW-22 located	d halfway south slope).	_
•	All wells were	complete	d at the end	of the day	·	
•			un bloven litt	er on north and south s	lones.	
	SCS proceed	ea to pick	up blown iitt	er on north and south s		



# Daily Field Report (Continued)

Date	2/3/	2010	Wedr	nesday		
					SDR 11)	
		GW	_	Solid	Perforated	
		7	30'	14'	19'	
		8	34'	14'	23'	GW-8 filled with 2 ft of additional gravel. Only 1 bentonite plug installed (3.5 ft)
_		20	31'	14'	20'	
	•	22	25'	14'	14'	
		23	31'	14'	20'	
	_	24	32'	14'	21'	
_		25	31'	14'	20'	· · · · · · · · · · · · · · · · · · ·
_					· <u>-                                     </u>	
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Project Name: CC	SWDC Phas	e I LFG Constr	uction - Sequence 1	Date: 2/4/2010	Day: Thursday
Project Owner: Sa	rasota Coun	ty		Contractor: SCS Field Services	
HDR Project No. 0	96-124466			CQA: Carlos Restrepo (HDR)	
Weather Conditio	ns: ,				
Temperature			Weather		Precipitation
Max.	Min.		Clear	Other	
76 F	55 F		Sunny		none
Contractor's Emp	loyees / Tit	ie		Equipment Used	
Steve Miller		Acting Supe	rintendent	Forklift - JLG 1044C	
Ray Perez		Laborer / Dr	iver	Excavator – Kobaiko	
Joel Sanchez		Laborer / Dr	iver	Truck F-250	
Brandon Swift		Laborer / Dr	iver	Flat bed F-450	
Fred Harlan		Laborer / Dr	iver	Bobcat	
	ved on site a	<u> </u>	drilling GW-19, GW-21	. GW-26	
				, GW-26 vel (bedding layer). HDR verified that	hand the amore whete
		Irated bentonite		ver (bedding layer). HDR verified that	t each well had the appropriate
				ortheast slope after Veolia (landfill op	erator regarded area)
				ded SCS revised well schedule	
			drilling GW-1, GW-2		
Pre-asse	embled well	casings are put	in place over 1 ft of gra	vel (bedding layer). HDR verified that	t each well had the appropriate
backfill /	geonet / hyd	Irated bentonite	alayers		
• GW-1 ar	d GW-2 we	re not complete	ed at the end of the day	. Wells covered as required in contract	ct documents
Pipe cre	w started fus	sing additional p	perforated pipe needed	for GW-3 to GW-6	
SCS left	the site at 5	:30 pm			
<u> </u>					
	edule (6" SI	<u> </u>			
GW DI 1 33'	<del></del>	Perforated 2'			
2 34	<del></del>	. <u> </u>			
19 30		8, 			
21 30'	<del></del>	ð, ————————————————————————————————————			
26 20	141 4		<del>_</del>		





Project Name: CCSWDC Phase I LFG Construction - Sequence 1	Date: 2/5/2010	Day: Friday
Project Owner: Sarasota County	Contractor: SCS Field Services	,
HDR Project No. 096-124466	CQA: Don Whiting (HDR)	

#### Weather Conditions:

Temperature		Weather		Precipitation
Max.	Min.	Clear	Other	
75 F	60 F		Cloudy	0.67 inches

Contractor's Employe	es / Title	Equipment Used	
Steve Miller	Laborer / Driver	Forklift - JLG 1044C	
Ray Perez	Laborer / Driver	2 X Excavator – Kobalko	
Joel Sanchez	Laborer / Driver	Truck F-250	
Brandon Swift	Laborer / Driver	Flat bed F-450	
Fred Harlan	Laborer / Driver	Bobcat	
_			

### Work Performed:

- SCS arrived on site at 7:00 am
- B & H Drilling (Subcontractor) drilling GW-3, GW-4, GW-5 and GW-6
- Prior to installation the perforated pipe for GW-4 was found to be approx. 2 ft. too long. SCS removed 1'-10" section from the bottom and fused cap to bottom of casing. HDR verified the corrected length of perforated pipe at 22 ft.
- B & H Drilling (Subcontractor) completed last bore (GW-6) at 11:10 am
- Pre-assembled well casings were installed over 1 ft of gravel (bedding layer). HDR verified each well had the appropriate backfill /
  geonet / hydrated bentonite layers. SCS completed backfill of GW-1, GW-2 and GW-3 but did not finish top lift of backfill on GW-4,
  GW-5 and GW-6 due to rain & lightning. Wells covered as required in contract documents
- SCS completed last bentonite plug at 2:15 pm.
- SCS stopped all work on landfill at 2:35 pm due to rain & lightning.
- SCS left the site at 3:00 pm.

*	Well	Schedule	(6"	SDR	11)
---	------	----------	-----	-----	-----

G	W	Db	Solid	Perforated				
	3	35'	14'	24'		_		
	4	33'	14'	22'		_	_	
_	5	33'	14'	22'				 
	6	35'	14'	24'				



Project Name: Co	CSWDC Phase	I LFG Constr	uction - Sequence 1	Date: 2/6/2010	Day: Saturday
Project Owner: S	Sarasota County			Contractor: SCS Field Ser	rvices
HDR Project No.	096-124466			CQA: Don Whiting (HDR)	
Weather Conditi	ions:				
Temperature			Weather		Precipitation
Max.	Min.		Clear	Other	
60 F	65 F			Partly Cloudy	none
Contractor's Em	nployees / Title			Equipment Used	
Steve Miller		Laborer / Dr	iver	Forklift - JLG 1044C	
Ray Perez		Laborer / Dr	iver	2 X Excavator – Kobalko	
Joel Sanchez		Laborer / Dr	iver	Truck F-250	
Brandon Swift		Laborer / Dr	iver	Flat bed F-450	
Fred Harlan		Laborer / Dr	iver	Bobcat	
Work Performed	d:	7:00 am			
SCS a     SCS u	urrived on site at	vator to comp			/ater ponding on bench between GW-3 a
SCS a     SCS u     GW-4	rrived on site at using small exca from yesterday	vator to comp	ssions from excavator	tracks allowed water to spill d	lown the face of embankment. Veolia, the
SCS a     SCS u     GW-4     County	arrived on site at using small exca from yesterday y and HDR obse	vator to comp 's rain. Depre erved the spill	ssions from excavator	tracks allowed water to spill d	own the face of embankment. Veolia, the contain water and stop the spill.
SCS a SCS u GW-4 County SCS d	arrived on site at using small exca from yesterday y and HDR obse	vator to comp s rain. Depre erved the spill itions were to	ssions from excavator SCS operator create o wet to continue wor	tracks allowed water to spill d d berm along edge of bench to k on the land fill due to yesterd	own the face of embankment. Veolia, the contain water and stop the spill.
SCS a SCS u GW-4 County SCS d Contra	arrived on site at using small exca from yesterday y and HDR obse letermined cond actor placed rock	vator to comp is rain. Depre erved the spill itions were to k on east entr	ssions from excavator  SCS operator create  o wet to continue work  ance road to staging a	tracks allowed water to spill d d berm along edge of bench to k on the land fill due to yesterd	own the face of embankment. Veolia, the contain water and stop the spill.
SCS a SCS u GW-4 County SCS d Contra SCS fi	arrived on site at using small exca from yesterday y and HDR obse determined cond actor placed rocusing HDPE pip	vator to comp 's rain. Depre erved the spill itions were to k on east entr e fittings in st	ssions from excavator  SCS operator create  wet to continue word  ance road to staging a  aging area.	tracks allowed water to spill do do berm along edge of bench to k on the land fill due to yesterd area. Performed general site c	own the face of embankment. Veolia, the contain water and stop the spill.
SCS a SCS u GW-4 County SCS d Contra SCS fi	arrived on site at using small exca from yesterday y and HDR obse determined cond actor placed rocusing HDPE pip	vator to comp 's rain. Depre erved the spill itions were to k on east entr e fittings in st	ssions from excavator  SCS operator create  wet to continue word  ance road to staging a  aging area.	tracks allowed water to spill d d berm along edge of bench to k on the land fill due to yesterd	own the face of embankment. Veolia, the contain water and stop the spill.
SCS a SCS u GW-4 County SCS d Contra SCS fi	arrived on site at using small exca from yesterday y and HDR obse determined cond actor placed rocusing HDPE pip	vator to comp 's rain. Depre erved the spill itions were to k on east entr e fittings in st	ssions from excavator  SCS operator create  wet to continue word  ance road to staging a  aging area.	tracks allowed water to spill do do berm along edge of bench to k on the land fill due to yesterd area. Performed general site c	own the face of embankment. Veolia, the contain water and stop the spill.
SCS a SCS u GW-4 County SCS d Contra SCS fi	arrived on site at using small exca from yesterday y and HDR obse determined cond actor placed rocusing HDPE pip	vator to comp 's rain. Depre erved the spill itions were to k on east entr e fittings in st	ssions from excavator  SCS operator create  wet to continue word  ance road to staging a  aging area.	tracks allowed water to spill do do berm along edge of bench to k on the land fill due to yesterd area. Performed general site c	own the face of embankment. Veolia, the contain water and stop the spill.
SCS a SCS u GW-4 County SCS d Contra SCS fi	arrived on site at using small exca from yesterday y and HDR obse determined cond actor placed rocusing HDPE pip	vator to comp 's rain. Depre erved the spill itions were to k on east entr e fittings in st	ssions from excavator  SCS operator create  wet to continue word  ance road to staging a  aging area.	tracks allowed water to spill do do berm along edge of bench to k on the land fill due to yesterd area. Performed general site c	own the face of embankment. Veolia, the contain water and stop the spill.
SCS a SCS u GW-4 County SCS d Contra SCS fi	arrived on site at using small exca from yesterday y and HDR obse determined cond actor placed rocusing HDPE pip	vator to comp 's rain. Depre erved the spill itions were to k on east entr e fittings in st	ssions from excavator  SCS operator create  wet to continue word  ance road to staging a  aging area.	tracks allowed water to spill do do berm along edge of bench to k on the land fill due to yesterd area. Performed general site c	own the face of embankment. Veolia, the contain water and stop the spill.
SCS a SCS u GW-4 County SCS d Contra SCS fi	arrived on site at using small exca from yesterday y and HDR obse determined cond actor placed rocusing HDPE pip	vator to comp 's rain. Depre erved the spill itions were to k on east entr e fittings in st	ssions from excavator  SCS operator create  wet to continue word  ance road to staging a  aging area.	tracks allowed water to spill do do berm along edge of bench to k on the land fill due to yesterd area. Performed general site c	own the face of embankment. Veolia, the contain water and stop the spill.
SCS a SCS u GW-4 County SCS d Contra SCS fi	arrived on site at using small exca from yesterday y and HDR obse determined cond actor placed rocusing HDPE pip	vator to comp 's rain. Depre erved the spill itions were to k on east entr e fittings in st	ssions from excavator  SCS operator create  wet to continue word  ance road to staging a  aging area.	tracks allowed water to spill do do berm along edge of bench to k on the land fill due to yesterd area. Performed general site c	own the face of embankment. Veolia, the contain water and stop the spill.
SCS a SCS u GW-4 County SCS d Contra SCS fi	arrived on site at using small exca from yesterday y and HDR obse determined cond actor placed rocusing HDPE pip	vator to comp 's rain. Depre erved the spill itions were to k on east entr e fittings in st	ssions from excavator  SCS operator create  wet to continue word  ance road to staging a  aging area.	tracks allowed water to spill do do berm along edge of bench to k on the land fill due to yesterd area. Performed general site c	own the face of embankment. Veolia, the contain water and stop the spill.
SCS a SCS u GW-4 County SCS d Contra SCS fi	arrived on site at using small exca from yesterday y and HDR obse determined cond actor placed rocusing HDPE pip	vator to comp 's rain. Depre erved the spill itions were to k on east entr e fittings in st	ssions from excavator  SCS operator create  wet to continue word  ance road to staging a  aging area.	tracks allowed water to spill do do berm along edge of bench to k on the land fill due to yesterd area. Performed general site c	own the face of embankment. Veolia, the contain water and stop the spill.



Project Name: CCSWDC Phase I LFG Construction - Sequence 1			uction - Sequence 1	Date: 2/8/2010 Day: Monday		
Project Owner: Sarasota County				Contractor: SCS Field Services		
HDR Project No. 096-124466				CQA: Carlos Restrepo (HDR)		
Weather Conditions:	_					
Temperature Weather			Weather	Precipitation		
Max.	Min.		Clear	Other		
67 F	45 F				none	
		•				
Contractor's Employees / Title				Equipment Used		
Johnny Meier	ny Meier Superintend		ent	Forklift – JLG 1044C		
Steve Miller		Laborer / Dri	iver	2 X Excavator – Kobalko		
Brandon Swift	on Swift Laborer / Dri		iver	2 X Truck F-250	,	
Ray Perez	rez Laborer / Dri		iver	Flat bed F-450		
Joel Sanchez	_	Laborer / Dri	iver	Bobcat		
Fred Harlan		Laborer / Dr	iver	2 X Articulated dump trucks		
				Dozer		
Work Performed:						
SCS arrived	on site at	7:00 am				
Pipe crew be	gan fusing	bottom port	ion of U-trap 3 ( U-3) for i	nstallation. Due to difficulty fusing the	e 8" x 8" x 4" SDR 9 tee (for	
drain line fro	om U-3 to	LCO) it was	fused looking west. A 90°	elbow will be installed and then will o	connect to the	
LCO. HDR a	pproved t	nis change. D	Prain line will be installed			
SCS started	excavatio	n on north sid	pe to install U-3. HDR me	moved U-3 6' north and 17' east to locate U-3 behind the LCO		
U-3 was tren	ched to th	e depth Indic	ated on plans and specifi	fications. HDR verified that U-3 was set level and had bedding and		
backfill as sp	ecified in	olans.	•			
SCS proceed	led to tren	ch for heade	r installation (using a lase	er level to achieve a 5% slope) headir	ng east towards the high point	
(HP) east of	GW-2.					
• A 200 LF of	18" SDR 1	7 was placed	I in the trench			
	18" SDR 17 header will start at U-3 (STA 0+00) heading east towards the HP. SCS will install the 18" SDR 17 header					
		<u> </u>	flange) at a later date			
		<u> </u>		ed in the trench. The 2" and 4" SDR	9 were placed at the upgradient	
	<del></del>		oved this change from co	onstruction documents		
			of 2" SDR 9 were used.	adad ta backfill from STA 0+00 to ST/	1 0+75 SCS took elevations of	
				eded to backfill from STA 0+00 to STA e elevations every 50 ft. Pipe installed		
				nd of the day (as agreed by HDR and		
SCS left the			a rain tarp at the c			
		•				



Project Name: CCSWDC Phase I LFG Construction - Sequence 1			uction - Sequence 1	Date: 2/9/2010	Day: Tuesday	
Project Owner: Sarasota County					Contractor: SCS Field Services	
HDR Project No. 096-124466					CQA: Carlos Restrepo (HDF	₹)
Weather Con	ditions:					
Temperature Weather			Weather		Precipitation	
Max.	N	lin.		Clear .	Other	
67 F	4	47 F			Mostly Cloudy / Rain	0.11 inches
			_			
Contractor's	Employees	s / Title		-	Equipment Used	
Johnny Meier			Superintend	ent		
Steve Miller			Laborer / Dri	ver	2 X Excavator – Kobalko	
Brandon Swift	don Swift Laborer / Dri		ver	2 X Truck F-250		
Ray Perez	ay Perez Laborer / Dri		ver	Flat bed F-450		
Joel Sanchez			Laborer / Dri	ver	Bobcat	
Fred Harlan	•		Laborer / Dri	ver	2 X Articulated dump trucks	
Abel Sanchez			Laborer / Dri	ver	Dozer	
_			_	_	ations must follow OSHA regular	tions.
_			_	_		tions.
					oid any hazardous conditions ser level to achieve a 5% slope	) from STA 1+00 to STA 1+50
						,
			18" SDR 17 (header), 4" SDR 9 (cond			
• SCS	SCS took elevations every 25 ft. Pip SCS proceeded to backfill from STA		e met required slope			
• SCS	proceeded	d to back	dill from STA	0+75 to STA 1+25	ceeded to clear area for concre	te pad
SCS     HDF	S proceeded	d to back	fill from STA	0+75 to STA 1+25	ceeded to clear area for concre	<u> </u>
SCS     HDF     Due	proceeded coordinate to weather	d to back ed with s	ofill from STA	0+75 to STA 1+25	S proceeded to cap 18", 2", and	<u> </u>
SCS     HDF     Due     Ren	proceeded coordinate to weather	d to back ed with s r condition en trench	offill from STA GCS for layout ons, SCS sto was covered	0+75 to STA 1+25 at of flare pad. SCS pro	S proceeded to cap 18", 2", and	<u> </u>
SCS     HDF     Due     Ren     SCS	S proceeded to weather naining ope	ed with ser condition trench	offill from STA GCS for layou ons, SCS sto was covered pm	t of flare pad. SCS proports at 3:00 pm. SCS with a rain tarp at the	S proceeded to cap 18", 2", and	<u> </u>
SCS     HDF     Due     Ren     SCS	S proceeded R coordinate to weather naining ope S left the site	ed with ser condition trenches at 5:00	offill from STA GCS for layou ons, SCS sto was covered pm	t of flare pad. SCS proposed with a rain tarp at the owing was addressed:	S proceeded to cap 18°, 2°, and end of the day	<u> </u>
SCS     HDF     Due     Ren     SCS	S proceeded R coordinate to weather naining ope S left the site	ed with ser condition trenches at 5:00	offill from STA GCS for layou ons, SCS sto was covered pm	t of flare pad. SCS proposed with a rain tarp at the owing was addressed:	S proceeded to cap 18", 2", and	<u> </u>
SCS     HDF     Due     Ren     SCS	S proceeded R coordinate to weather naining ope S left the site	ed with ser condition trenches at 5:00	offill from STA GCS for layou ons, SCS sto was covered pm	t of flare pad. SCS proposed with a rain tarp at the owing was addressed:	S proceeded to cap 18°, 2°, and end of the day	<u> </u>
SCS     HDF     Due     Ren     SCS	S proceeded R coordinate to weather naining ope S left the site	ed with ser condition trenches at 5:00	offill from STA GCS for layou ons, SCS sto was covered pm	t of flare pad. SCS proposed with a rain tarp at the owing was addressed:	S proceeded to cap 18°, 2°, and end of the day	<u> </u>
SCS     HDF     Due     Ren     SCS	S proceeded R coordinate to weather naining ope S left the site	ed with ser condition trenches at 5:00	offill from STA GCS for layou ons, SCS sto was covered pm	t of flare pad. SCS proposed with a rain tarp at the owing was addressed:	S proceeded to cap 18°, 2°, and end of the day	<u> </u>



Project Name: CCSWDC Phase I LFG Construction - Sequence 1			uction - Sequence 1	Date: 2/10/2010	Day: Wednesday	
Project Owner: Sarasota County				Contractor: SCS Field Services		
HDR Project No. 096-124466				CQA: Carlos Restrepo	(HDR)	
Neather Conditi	ons:					
Temperature		Weather		Precipitation		
Мах.	Min.		Clear	Other		
56 F	40 F			Partly Cloudy	none	
Contractor's Employees / Title				Equipment Used		
ohnny Meler		Superintend	ent			
Adolfo Matus		Laborer / Dri	iver	2 X Excavator - Kobalko	<u> </u>	
Brandon Swift		Laborer / Dri	iver	2 X Truck F-250		
Ray Perez		Laborer / Dri	iver	Flat bed F-450		
loel Sanchez		Laborer / Dri	iver	Bobcat		
red Harlan		Laborer / Dr	iver	2 X Articulated dump tru	icks	
Abel Sanchez Laborer /		Laborer / Driver		2 X Dozer – CAT D6M, Deere 450L LGP		
Work Performed  SCS ar	rived on site at	7:00 am				
• SCS co	rived on site at	7:00 am			Deere 450L LGP	
SCS ar     SCS cc     trenchir     18"x18"	rived on site at entinued trenching from HP to U "x4" SDR 11 te	7:00 am from STA 1+	50 to STA 2+87.5 (HP) V-2 lateral.			
SCS ar     SCS ar     trenchir     18"x18"     GW-2 I	rived on site at entinued trenching from HP to U "x4" SDR 11 te neader / lateral	7:00 am from STA 1+3 J-2 e fused for GV connection at	50 to STA 2+87.5 (HP) V-2 lateral. STA 2+04	(using a laser level to achi	ieve a 5% slope) and started access ramp	
SCS ar     SCS cc     trenchir     18"x18"     GW-2 i     SCS in	rived on site at entinued trenching from HP to U "x4" SDR 11 te neader / lateral stalled GW-2 la	7:00 am from STA 1+! J-2 e fused for GV connection at	50 to STA 2+87.5 (HP) V-2 lateral. STA 2+04 " SDR 11), 2" SDR 9 (a	(using a laser level to achi	ieve a 5% slope) and started access ramp	
SCS ar SCS cc trenchir 18"x18" GW-2 I SCS in SCS to	rived on site at entinued trenching from HP to U "x4" SDR 11 teneader / lateral stalled GW-2 lateral	7:00 am from STA 1+1 J-2 e fused for GV connection at ateral (26' of 4	50 to STA 2+87.5 (HP)  V-2 lateral.  STA 2+04  " SDR 11), 2" SDR 9 (a)  the met required slope	(using a laser level to achi	ieve a 5% slope) and started access ramp	
SCS ar     SCS ar     SCS cc     trenchir     18"x18"     GW-2 I     SCS in     SCS pr	rived on site at entinued trenching from HP to the entire of the entire	7:00 am from STA 1+1 J-2 e fused for GV connection at ateral (26' of 4	50 to STA 2+87.5 (HP) V-2 lateral. STA 2+04 " SDR 11), 2" SDR 9 (a	(using a laser level to achi	ieve a 5% slope) and started access ramp	
SCS ar     SCS ar     SCS cc     trenchir     18"x18"     GW-2 I     SCS in     SCS pr	rived on site at entinued trenching from HP to U "x4" SDR 11 teneader / lateral stalled GW-2 lateral	7:00 am from STA 1+1 J-2 e fused for GV connection at ateral (26' of 4	50 to STA 2+87.5 (HP)  V-2 lateral.  STA 2+04  " SDR 11), 2" SDR 9 (a)  the met required slope	(using a laser level to achi	ieve a 5% slope) and started access ramp	
SCS ar     SCS ar     SCS cc     trenchir     18"x18"     GW-2 I     SCS in     SCS pr	rived on site at entinued trenching from HP to the entire of the entire	7:00 am from STA 1+1 J-2 e fused for GV connection at ateral (26' of 4	50 to STA 2+87.5 (HP)  V-2 lateral.  STA 2+04  " SDR 11), 2" SDR 9 (a)  the met required slope	(using a laser level to achi	ieve a 5% slope) and started access ramp	
SCS ar     SCS ar     SCS cc     trenchir     18"x18"     GW-2 I     SCS in     SCS pr	rived on site at entinued trenching from HP to the entire of the entire	7:00 am from STA 1+1 J-2 e fused for GV connection at ateral (26' of 4	50 to STA 2+87.5 (HP)  V-2 lateral.  STA 2+04  " SDR 11), 2" SDR 9 (a)  the met required slope	(using a laser level to achi	ieve a 5% slope) and started access ramp	
SCS ar SCS cc trenchir 18"x18" GW-2 I SCS in SCS pr	rived on site at entinued trenching from HP to the entire of the entire	7:00 am from STA 1+1 J-2 e fused for GV connection at ateral (26' of 4	50 to STA 2+87.5 (HP)  V-2 lateral.  STA 2+04  " SDR 11), 2" SDR 9 (a)  the met required slope	(using a laser level to achi	ieve a 5% slope) and started access ramp	
SCS ar     SCS ar     SCS cc     trenchir     18"x18"     GW-2 I     SCS in     SCS pr	rived on site at entinued trenching from HP to the entire of the entire	7:00 am from STA 1+1 J-2 e fused for GV connection at ateral (26' of 4	50 to STA 2+87.5 (HP)  V-2 lateral.  STA 2+04  " SDR 11), 2" SDR 9 (a)  the met required slope	(using a laser level to achi	ieve a 5% slope) and started access ramp	
SCS ar     SCS ar     SCS cc     trenchir     18"x18"     GW-2 I     SCS in     SCS pr	rived on site at entinued trenching from HP to the entire of the entire	7:00 am from STA 1+1 J-2 e fused for GV connection at ateral (26' of 4	50 to STA 2+87.5 (HP)  V-2 lateral.  STA 2+04  " SDR 11), 2" SDR 9 (a)  the met required slope	(using a laser level to achi	ieve a 5% slope) and started access ramp	
SCS ar SCS cc trenchir 18"x18" GW-2 I SCS in SCS pr	rived on site at entinued trenching from HP to the entire of the entire	7:00 am from STA 1+1 J-2 e fused for GV connection at ateral (26' of 4	50 to STA 2+87.5 (HP)  V-2 lateral.  STA 2+04  " SDR 11), 2" SDR 9 (a)  the met required slope	(using a laser level to achi	ieve a 5% slope) and started access ramp	
SCS ar SCS cc trenchir 18"x18" GW-2 I SCS in SCS pr	rived on site at entinued trenching from HP to the entire of the entire	7:00 am from STA 1+1 J-2 e fused for GV connection at ateral (26' of 4	50 to STA 2+87.5 (HP)  V-2 lateral.  STA 2+04  " SDR 11), 2" SDR 9 (a)  the met required slope	(using a laser level to achi	ieve a 5% slope) and started access ramp	



	roject Name: CCSWDC Phase I LFG Construction - Sequence 1				Date: 2/11/2010		
Project Owner: Sarasota County					Contractor: SCS Field Services		
HDR Project No. 096-124466					CQA: Carlos Restrepo (HDR)		
Weather Con	ditions:						
Temperature				Weather		Precipitation	
Max.		Min.		Clear	Other		
50 F		<b>43</b> F			Partly Cloudy	none	
						·	
Contractor's	Employe	es / Title			Equipment Used		
Johnny Meier			ent				
Adolfo Matus		La	aborer / Dri	iver	2 X Excavator – Kobalko,	Komatsu	
Brandon Swif	n Swift Laborer / Dri		iver	2 X Truck F-250			
Ray Perez	ay Perez Laborer / Dr		aborer / Dri	iver	Flat bed F-450		
Joel Sanchez		La	aborer / Dri	ver	Bobcat		
Fred Harlan		La	aborer / Dri	iver	Articulated dump truck		
Work Perform	med:	La on site at 7:0	aborer / Dri	ver	2 X Dozer- CAT D6M, De	ere 450L LGP	
Work Perform  SC  SC  SC  18	med: S arrived of S continue S installed	on site at 7:0 ad trenching 118" SDR 17 11 elbow in	00 am from HP (3 7 (header), estalled at F	STA 2+87.5) to STA 4 2° SDR 9 (airline) and HP (STA 2+87.5)	H+50 (using a laser level to ac	hieve a 5% slope) e trench.	
Work Perform  SC  SC  SC  GW	med: S arrived of S continue S installed * 45° SDR V-3 require	on site at 7:0 ad trenching I 18" SDR 17 11 elbow in ad a type 2 la	00 am from HP (3 7 (header), estalled at F	STA 2+87.5) to STA 4 2° SDR 9 (airline) and HP (STA 2+87.5)	H+50 (using a laser level to ac	hieve a 5% slope)	
SC:	med: S arrived of S continue S installed 45° SDR V-3 require te 1 lateral	on site at 7:0 ed trenching I 18" SDR 17 11 elbow in ed a type 2 la	00 am from HP (; 7 (header), stalled at H	STA 2+87.5) to STA 4 2° SDR 9 (airline) and IP (STA 2+87.5) ection per documents	H+50 (using a laser level to ac	hieve a 5% slope) e trench.	
SC     SC	med: S arrived of S continue S installed 45° SDR V-3 require 1 lateral	on site at 7:0 ad trenching 1 18" SDR 17 11 elbow in ad a type 2 la	00 am from HP ( 7 (header), installed at H ateral conn	STA 2+87.5) to STA 4 2° SDR 9 (airline) and P (STA 2+87.5) ection per documents STA 3+55	4+50 (using a laser level to ac d 4" SDR 9 (condensate) in th . Header was approximately 1	hieve a 5% slope) e trench. 2' from well, HDR approved change to	
SC:	med: S arrived of S continue S installed 45° SDR V-3 require 1 lateral V-3 header	on site at 7:0 ad trenching I 18" SDR 17 11 elbow in ad a type 2 la r / lateral cor	oo am from HP (3 from	STA 2+87.5) to STA 4 2° SDR 9 (airline) and HP (STA 2+87.5) ection per documents STA 3+55 ° SDR 11), 2° SDR 9	i+50 (using a laser level to ac d 4" SDR 9 (condensate) in th . Header was approximately 1 airline) and 4" SDR 9 (conder	hieve a 5% slope) e trench.	
Work Perform  SC  SC  SC  18  GW  typ  GW  SC  18*	med: S arrived of S continue S installed " 45" SDR V-3 require te 1 lateral V-3 header S installed S installed	on site at 7:0 ad trenching 118" SDR 17 11 elbow in ad a type 2 la r / lateral cor d GW-3 latera	oo am from HP (3 from	STA 2+87.5) to STA 4 2° SDR 9 (airline) and P (STA 2+87.5) ection per documents  STA 3+55  SDR 11), 2° SDR 9 (airline) and ote wellhead connect	H+50 (using a laser level to act 4" SDR 9 (condensate) in the Header was approximately 1 airline) and 4" SDR 9 (condensate) at STA 4+30	hieve a 5% slope) e trench. 2' from well, HDR approved change to	
SC S	med: S arrived of S continue S installed 45° SDR V-3 require 1 lateral V-3 header S installed x18°x4° S	on site at 7:0 and trenching I 18" SDR 17 11 elbow in and a type 2 la of / lateral cor I GW-3 lateral DR 11 instal bonding on b	oo am from HP (3 from	STA 2+87.5) to STA 4 2° SDR 9 (airline) and HP (STA 2+87.5) ection per documents  STA 3+55  SDR 11), 2° SDR 9 (airline) and seeping to trench.	H+50 (using a laser level to act 4" SDR 9 (condensate) in the Header was approximately 1 airline) and 4" SDR 9 (condensate) at STA 4+30	hieve a 5% slope) e trench.  2' from well, HDR approved change to esate) in the trench. 6' risers for all pipes	
Work Perform  SC  SC  SC  SC  GW  typ  GW  SC  18"  Sto	S arrived of S continue S installed 45° SDR V-3 require 1 lateral V-3 header S installed 2x18"x4" S ormwater p watering w	on site at 7:0 ad trenching 118" SDR 17 11 elbow in ad a type 2 la r / lateral cor I GW-3 later DR 11 instal conding on b vas not requi	from HP (some state of the stat	STA 2+87.5) to STA 4 2° SDR 9 (airline) and HP (STA 2+87.5) ection per documents  STA 3+55  SDR 11), 2° SDR 9 (airline) and seeping to trench.	i+50 (using a laser level to ac d 4" SDR 9 (condensate) in th . Header was approximately 1 airline) and 4" SDR 9 (conder ion at STA 4+30 SCS proceeded to excavate in	hieve a 5% slope) e trench.  2' from well, HDR approved change to esate) in the trench. 6' risers for all pipes	
SC S	med: S arrived of S continue S installed 45° SDR V-3 require 1 lateral V-3 header S installed x18"x4" S ormwater p watering w S took ele	on site at 7:0 ad trenching I 18" SDR 17 11 elbow in ad a type 2 la r / lateral cor I GW-3 latera DR 11 instal bonding on b vas not requi	oo am from HP (3 from	STA 2+87.5) to STA 4 2° SDR 9 (airline) and P (STA 2+87.5) ection per documents  STA 3+55  SDR 11), 2° SDR 9 note wellhead connected seeping to trench.	i+50 (using a laser level to act 4" SDR 9 (condensate) in the Header was approximately 1 airline) and 4" SDR 9 (condensate) and 4" SDR 9 (condensate) and 4" SDR 9 (condensate) and 5TA 4+30 SCS proceeded to excavate in the bench. Veolia (landfill operate)	hieve a 5% slope) e trench.  2' from well, HDR approved change to esate) in the trench. 6' risers for all pipes	



Project Name: CCSWDC Phase I LFG Construction - Sequence 1				Date: 2/12/2010	Day: Friday	
Project Owner: Sarasota County				Contractor: SCS Field Services		
HDR Project No. 096-124466				CQA: Carlos Restrepo (HDR)		
Weather Condition	s:					
Temperature			Weather		Precipitation	
Max.	Min.		Clear	Other		
65 F	45 F			Overcast / rain	0.71	
Contractor's Emplo	yees / Title			Equipment Used		
Johnny Meier			 ent			
Abel Sanchez				2 X Excavator Kobalko,	Komatsu	
Brandon Swift				2 X Truck F-250		
Ray Perez				Flat bed F-450		
Joel Sanchez		Laborer / Dr		Bobcat		
Fred Harlan		Laborer / Dr	iver	Articulated dump truck		
Adolfo Matus		Laborer / Dr	iver	Dozer Deere 450L LGP		
Trenching GW-1 hea SCS instate 4" SDR 9 SCS took HDR met to Limits of p County de SCS conti	der / lateral led GW-1 la and 2" SDR elevations e with Jack Gi roposed cha	will resume or connection at ateral (75' of 6 9 included for every 25 ft for abson and Dar ain link fence to the graph of	STA 0+75 " SDR 11), 2" SDR 9 (ar future connection. 6' r GW-1 lateral. Pipe met in McAllister (County) to	isers for all pipes required slope discuss layout at flare station	int (AP) not delivered yet.  sate) in the trench. 6' of 4" SDR 11,  n. County would like to install gravel beyond tallation. HDR will review and provide	
SCS will n	ot work on §	Saturday 2/13	/2010			



Project Name: CCSWD	C Phase	LFG Constr	uction - Sequence 1	Date: 2/15/2010	Day: Monday	
Project Owner: Sarasota County				Contractor: SCS Field Services		
HDR Project No. 096-12	24466	•		CQA: Carlos Restrepo (HDR)		
Weather Conditions:				•		
Temperature Weather			Weather		Precipitation	
Max.	Min.		Clear	Other		
67 F	<b>45</b> F		Sunny		none	
				•	•	
Contractor's Employe	es / Title			Equipment Used		
Johnny Meier	Johnny Meier Superinter		ent			
Steve Miller		Laborer / Dr	iver	2 X Excavator – Kobalko , I	Komatsu	
Brandon Swift	andon Swift Laborer / Dr		iver	2 X Truck F-250		
Ray Perez	_	Laborer / Dr	iver	Flat bed F-450		
Joel Sanchez		Laborer / Dr	iver	Bobcat	,	
Fred Harlan		Laborer / Dr	iver	2 X articulated dump truck	S	
Abel Sanchez		Laborer / Driver		Dozer		
Adolfo Matus		Laborer / Dr	iver			
					•	
Work Performed:						
SCS arrived	on site at	7:00 am				
Pipe crew pro	oceeded to	o fuse bottom	portion of U-2. 8"X4" S	SDR 11 tee for U-2 drain line for	used looking west. A 90° elbow needed	
to connect dr	rain line to	existing LCC	O. Connection to LCO a	t a later date.		
HDR Informs	ed SCS th	at risers for	lateral / condensate /	air return lines must be plu	mb as possible. SCS will need to make	
necessary c	orrection	s. No respo	onse from SCS regardi	ng this subject.		
SCS proceed	led to exc	avate and ins	stall U-2, then trench he	ading upslope and meet 18" S	SDR 17 header at STA 4+30	
HDR informed SCS that trench excavated did not have at I				east 3' of cover as required an	d stationing will be out of sequence.	
SCS proceeded to remove U-2 and backfilled tren						
			fter the 18"x8" tee for A	P arrives		
SCS left the s	site at 5:00	0 pm				
			<u> </u>		· · · · · ·	
				_	· · · · · · · · · · · · · · · · · · ·	



	Project Name: CCSWDC Phase I LFG Construction - Sequence 1			uction - Sequence 1	Date: 2/16/2010	Day: Tuesday	
Project Owner: Sarasota County					Contractor: SCS Field Services		
HDR Project No. 096-124466					CQA: Don Whiting (HDR) 0700 hr. – 1200 hr.		
Weather	Conditions:	_					
Tempera	erature Weather			Weather		Precipitation	
Max.		Min.		Clear	Other		
55° F		<b>45</b> ° F		Sunny	Windy	None	
Contract	tor's Employe	es / Title			Equipment Used		
Johnny İv	nnny Meier Superintend		ent				
Steve Mil	Miller Laborer / Dri		iver	2 X Excavator – Kobalco , K	Comatsu		
Brandon	andon Swift Laborer / Dri		iver	2 X Truck F-250			
Ray Pere			Laborer / Dr	iver	Flat bed F-450		
Joel San	chez		Laborer / Dr	iver	Bobcat		
Fred Har	ian		Laborer / Dr	iver	Articulated dump trucks		
Adolfo M	atus		Laborer / Dr	iver	Dozer		
			_				
	<del></del>						
AAOLK 56	rformed:						
<u> </u>	SCS on site a						
					e waiting on delivery of factory	rabnicated, 18" x 8" Tees.	
				Derr & Company (FD&C			
•					ractor/Loader with back blade.	termined top of concrete should be 6"	
						around pads to within 2" - 3" from top of	
				nce with R. Siemering v		around padd to Willim 2 - 9 Hom top or	
				ds and began excavatio	<u> </u>		
			<u>_</u>			ee for GW-4. In preparation for header	
•	<ul> <li>SCS began excavation between header access point located west of GW-4 and 18 x 6 Tee for GW-4, in preparation for header installation. SCS indicated 18 x 8 Tees are scheduled to arrive on-site this afternoon.</li> </ul>						



	TOTAL PROPERTY	I LFG Consti	ruction - Sequence 1	Date: 2/16/2010	Day: Tuesday	
Project Owner: Sarasota County				Contractor: SCS Field Se	rvices	
HDR Project No. 09	96-124466			CQA: Carlos Restrepo (HDR) 1100 hr. – 1700 hr.		
Weather Condition	ns:					
Temperature			Weather		Precipitation	
Max.	Min.		Clear	Other		
55° F	45° F		Sunny	Windy	None	
Contractor's Emp	lovees / Title		<del></del>	Equipment Used		
Johnny Meier		Superintend	lent	Equipment Osed		
Steve Miller		Laborer / Dr		2 X Excavator – Kobalco	Komatsu	
Brandon Swift		Laborer / Dr		2 X Truck F-250	1	
Ray Perez		Laborer / Di	<u> </u>	Flat bed F-450		
Joel Sanchez		Laborer / Dr		Bobcat		
Fred Harlan		Laborer / Dr	iver	Articulated dump trucks		
Adolfo Matus		Laborer / Dr	iver	Dozer		
_	<u>.</u>					
Work Performed:						
SCS pro SCS con SCS inst SCS tool SCS pro FD&C in: HDR infe SCS reg SCS left	alled 18"x6" S k elevations et ceeded to bac stalled frame a primed SCS th parding this s the site at 6:3	tion from ST. DR 11 tee for very 25 ft. Pip ckfill trench from trushed and crushed anat4" SDR 9 ubject. 0 pm	or GW-4 lateral (STA 4+ the met required slope form STA 4+50 t STA 4- gravel for flare pad and 2"SDR 9 risers for	sing a laser level to achieve 84). Lateral to be installed at 75 or AP must be 1' lower that		
SCS pro SCS con SCS inst SCS tool SCS pro FD&C in: HDR infe SCS reg SCS left During P	alled 18"x6" S k elevations et ceeded to bac stalled frame a cormed SCS th parding this s the site at 6:3	tion from ST. SDR 11 tee for very 25 ft. Pip skfill trench from and crushed mat4" SDR 9 ubject. 0 pm	A 4+50 to STA 4+84 (ur GW-4 lateral (STA 4+be met required slope om STA 4+50 t STA 4+gravel for flare pad and 2"SDR 9 risers for slowing was addressed:	sing a laser level to achieve 84). Lateral to be installed at 75 or AP must be 1' lower that	a later date 8"SDR 11 riser. No response from	
SCS pro SCS con SCS inst SCS tool SCS pro FD&C in: HDR infe SCS reg SCS left During P	alled 18"x6" S k elevations et ceeded to bac stalled frame a cormed SCS th parding this s the site at 6:3	tion from ST. SDR 11 tee for very 25 ft. Pip skfill trench from and crushed mat4" SDR 9 ubject. 0 pm	A 4+50 to STA 4+84 (ur GW-4 lateral (STA 4+be met required slope om STA 4+50 t STA 4+gravel for flare pad and 2"SDR 9 risers for slowing was addressed:	sing a laser level to achieve 84). Lateral to be installed at -75 or AP must be 1' lower that	a later date 8"SDR 11 riser. No response from	
SCS pro SCS con SCS inst SCS tool SCS pro FD&C in: HDR infe SCS reg SCS left During P	alled 18"x6" S k elevations et ceeded to bac stalled frame a cormed SCS th parding this s the site at 6:3	tion from ST. SDR 11 tee for very 25 ft. Pip skfill trench from and crushed mat4" SDR 9 ubject. 0 pm	A 4+50 to STA 4+84 (ur GW-4 lateral (STA 4+be met required slope om STA 4+50 t STA 4+gravel for flare pad and 2"SDR 9 risers for slowing was addressed:	sing a laser level to achieve 84). Lateral to be installed at -75 or AP must be 1' lower that	a later date 8"SDR 11 riser. No response from	
SCS pro SCS con SCS inst SCS tool SCS pro FD&C in: HDR infe SCS reg SCS left During P	alled 18"x6" S k elevations et ceeded to bac stalled frame a cormed SCS th parding this s the site at 6:3	tion from ST. SDR 11 tee for very 25 ft. Pip skfill trench from and crushed mat4" SDR 9 ubject. 0 pm	A 4+50 to STA 4+84 (ur GW-4 lateral (STA 4+be met required slope om STA 4+50 t STA 4+gravel for flare pad and 2"SDR 9 risers for slowing was addressed:	sing a laser level to achieve 84). Lateral to be installed at -75 or AP must be 1' lower that	a later date 8"SDR 11 riser. No response from	





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Project Owner: Sarasota County				Contractor: SCS Field Se	rvices	
HDR Project No. 096-124466				CQA: Carlos Restrepo (HDR)		
Veathe	r Conditions:					
empera	ature			Weather		Precipitation
Max.		Min.		Clear	Other	,
59 F		43 F			Overcast	none
ontrac	tor's Employe	es / Title			Equipment Used	
ohnny l	Meier		Superintend	ent		
steve M	liller		Laborer / Dr	iver	2 X Excavator – Kobalko	, Komatsu
Brandon	Swift		Laborer / Dr	iver	2 X Truck F-250	
Ray Per	ez		Laborer / Dr	iver	Flat bed F-450	
loel San	nchez		Laborer / Dr	iver	Bobcat	
red Ha	rlan		Laborer / Dr	iver	2 X articulated dump trucks	
Adolfo Matus Laborer / Driver						
	natus		Laborer / Dr	iver	Dozer	
	erformed:		Laborer / Dr	iver	Dozer	
	erformed:  SCS arrived of SCS proceed SCS installed 4" SDR 9 and	ded to trend d GW-4 lated d 2" SDR !	7:00 am sch from STA teral (41' of 6	4+84 to STA 8+00 (us	ing a laser level to achieve a airline) and 4" SDR 9 (conder	5% slope) nsate) in the trench. 6' of 4" SDR 11,
Vork Pe	erformed:  SCS arrived of SCS proceed SCS installed 4" SDR 9 and SCS took ele	ded to trend d GW-4 lated 2" SDR sevations ex	7:00 am Ich from STA Iteral (41' of 6 P included for	4+84 to STA 8+00 (us " SDR 11), 2" SDR 9 (a r future connection. 6' r	ing a laser level to achieve a airline) and 4" SDR 9 (conder	
Vork Pe	erformed:  SCS arrived of SCS proceed  SCS installed  4" SDR 9 and  SCS took ele  SCS proceed	ded to trend GW-4 lated 2" SDR 9 evations ended to back	7:00 am Ich from STA Iteral (41' of 6 P included for Very 25 ft. Pig	4+84 to STA 8+00 (us "SDR 11), 2" SDR 9 (a future connection. 6' r be met required slope 5+84 to STA 7+50	ing a laser level to achieve a airline) and 4" SDR 9 (conder	nsate) in the trench. 6' of 4" SDR 11,
Vork Pe	erformed:  SCS arrived of SCS proceed of SCS installed of SCS took elections of SCS proceed of S	ded to trend d GW-4 lated 2" SDR sevations evaluated to baccontractor)	7:00 am sch from STA teral (41' of 6 included fo very 25 ft. Pig kfill from STA	4+84 to STA 8+00 (us "SDR 11), 2" SDR 9 (are future connection. 6' are met required slope A 5+84 to STA 7+50 arming and placing crus	ing a laser level to achieve a airline) and 4" SDR 9 (conder isers for all pipes shed gravel for stack pad sub	nsate) in the trench. 6' of 4" SDR 11,
Vork Pe	erformed:  SCS arrived of SCS proceed of SCS installed of SCS took elections of SCS proceed of S	ded to trend d GW-4 lated 2" SDR sevations ended to baccontractor) steed HDF rea starting	7:00 am Ich from STA teral (41' of 6 9 included for very 25 ft. Pig kfill from STA continued fra R to log in ap g at U-2.	4+84 to STA 8+00 (us "SDR 11), 2" SDR 9 (are future connection. 6' are met required slope A 5+84 to STA 7+50 arming and placing crus	ing a laser level to achieve a airline) and 4" SDR 9 (conder isers for all pipes shed gravel for stack pad sub	nsate) in the trench. 6' of 4" SDR 11,



					T		
Project Name: CCSWDC Phase I LFG Construction - Sequence 1			uction - Sequence 1	Date: 2/18/2010	Day: Thursday		
Project Owner: Sarasota County				Contractor: SCS Field Services			
HDR Project No. 096-124466				CQA: Carlos Restrepo (HDR)			
Weather Conditions:							
Temperature			Weather		Precipitation		
Max.	Min.		Clear	Other			
57 F	40 F			Overcast	none		
	_			-	•		
Contractor's Employe	es / Title			Equipment Used			
Johnny Meier		Superintend	ent				
Steve Miller		Laborer / Dr	iver	2 X Excavator – Kobalko , Komatsu			
Brandon Swift		Laborer / Dr	iver	2 X Truck F-250			
Ray Perez		Laborer / Dr	iver	Flat bed F-450			
Joel Sanchez	_	Laborer / Dr	iver	Bobcat			
Fred Harian		Laborer / Dr	iver	2 X articulated dump trucks			
Adolfo Matus		Laborer / Dr	iver	Dozer			
Work Performed:							
SCS arrived	on site at	7:00 am			<u> </u>		
SCS started	trench for	GW-5 lateral	and U-2 installation (us	ing a laser level to achieve a 5% slop	ne)		
GW-5 heade	r / lateral o	connection at	STA 6+47. U-2 at STA	8+34	· · · · · · · · · · · · · · · · · · ·		
• 18" x 18" x 4	'SDR 11 t	ee fused for	GW-5 lateral				
SCS installed	d GW-5 lat	 teral (74' of 4	" SDR 11), 2" SDR 9 (a	iriine) and 4" SDR 9 (condensate) in t	he trench. 6' risers for all pipes		
When moving	g U-2 for i	nstallation, it	hit a connector pipe fro	m existing LCO to flare (Cell 3) and bi	roke the pipe. County was informed		
and inspecte	d the dam	age. SCS pr	oceeded to repair dama	ged pipe.			
<ul> <li>A 45<sup>0</sup> SDR 1</li> </ul>	1 elbow w	as needed a	the east stubout of U-2	in order to maintain the surveyed he	ader alignment after U-2 was		
moved 10'ea	st to locat	e behind LC	)				
HDR Inform	ed SCS th	at all lateral	s will need to be surv	eyed for signed/sealed as-builts. So	CS's field notes are not approved		
for as-builts							
			ing from U-2 to HP				
			pe met required slope				
			A 7+50 to STA 8+25				
·			ated on plans and spec	ifications. HDR verified that U-2 was	set level and had bedding and		
backfill as sp							
• 3C3 IEIL THE	SCS left the site at 6:00 pm						



Title  Superintend  Laborer / Dri	iver iver iver iver	Contractor: SCS Field S CQA: Carlos Restrepo Other Partly Cloudy  Equipment Used  2 X Excavator – Kobalko 2 X Truck F-250 Flat bed F-450 Bobcat articulated dump truck Dozer	Precipitation none
Superintend Laborer / Dri	Clear  lent iver iver iver iver	Other Partiy Cloudy  Equipment Used  2 X Excavator – Kobalko 2 X Truck F-250  Flat bed F-450  Bobcat articulated dump truck	Precipitation
Superintend Laborer / Dri	Clear  lent iver iver iver iver	Partiy Cloudy  Equipment Used  2 X Excavator Kobalko 2 X Truck F-250  Flat bed F-450  Bobcat  articulated dump truck	none
Superintend Laborer / Dri	Clear  lent iver iver iver iver	Partiy Cloudy  Equipment Used  2 X Excavator Kobalko 2 X Truck F-250  Flat bed F-450  Bobcat  articulated dump truck	none
Superintend Laborer / Dri	lent iver iver iver iver	Partiy Cloudy  Equipment Used  2 X Excavator Kobalko 2 X Truck F-250  Flat bed F-450  Bobcat  articulated dump truck	
Superintend  Laborer / Dri	iver iver iver iver	Equipment Used  2 X Excavator – Kobalko 2 X Truck F-250  Flat bed F-450  Bobcat  articulated dump truck	
Superintend  Laborer / Dri	iver iver iver iver	2 X Excavator Kobalko 2 X Truck F-250  Flat bed F-450  Bobcat  articulated dump truck	o , Komatsu
Superintend  Laborer / Dri	iver iver iver iver	2 X Excavator Kobalko 2 X Truck F-250  Flat bed F-450  Bobcat  articulated dump truck	o , Komatsu
Laborer / Dri	iver iver iver iver	2 X Truck F-250  Flat bed F-450  Bobcat  articulated dump truck	o , Komatsu
Laborer / Dri Laborer / Dri Laborer / Dri Laborer / Dri	iver iver iver	2 X Truck F-250  Flat bed F-450  Bobcat  articulated dump truck	o , romassu
Laborer / Dri Laborer / Dri Laborer / Dri Laborer / Dri	iver iver iver	Flat bed F-450  Bobcat  articulated dump truck	
Laborer / Dri Laborer / Dri Laborer / Dri	iver	Bobcat articulated dump truck	
Laborer / Dri	iver	articulated dump truck	
Laborer / Dri			
	iver	Dozer	
· ·			
SDR 17 (header), ctor) continued fra nday February 22 1 tee fused for GV installed at a late 1 tee fused for GV installed at a late ins every 25 ft. Pip	, 2" SDR 9 (airline) and aming, placing crushed 2, 2010 at 7:30 am W-6 lateral. GW-6 head or date W-7 lateral. GW-7 head or date	d 4" SDR 9 (condensate) in digravel for subbase, rebar.	HDR verified dimensions. Concrete pouring
it 6:30 pm			
	installed at a late ns every 25 ft. Pi backfill from ST/	e installed at a later date ns every 25 ft. Pipe met required slope b backfill from STA 8+34 to STA 9+96	ns every 25 ft. Pipe met required slope  backfill from STA 8+34 to STA 9+96



Project Name: CCSWD	C Phase I	LFG Constr	uction - Sequence 1	Date: 2/20/2010	Day: Saturday		
Project Owner: Sarasota County				Contractor: SCS Field Services			
HDR Project No. 096-1	24466			CQA: Carlos Restrepo (HDR)			
Weather Conditions:							
Temperature Weather		Weather		Precipitation			
Max.	Min.		Clear	Other .			
68 F	52 F			Partly Cloudy	none		
					·		
Contractor's Employe	es / Title			Equipment Used			
Johnny Meier		Superintend	ent				
Steve Miller		Laborer / Dri	ver	2 X Excavator – Kobalko , Komatsu	1		
Abel Sanchez		Laborer / Dri	ver	2 X Truck F-250	_		
Ray Perez	_	Laborer / Dri	ver	Flat bed F-450			
Brandon Swift		Laborer / Dri	ver	Bobcat			
Fred Harlan		Laborer / Dri	iver	articulated dump truck			
Adolfo Matus		Laborer / Dri	iver	Dozer			
				-			
Work Performed:							
SCS arrived of	on site at 7	7:00 am					
SCS began to	rench for (	GW-6 and GV	V-7 lateral installation (u	sing a laser level to achieve a 5% slo	pe)		
SCS installed	GW-6 lat	eral (96' of 8	" SDR 11), 2" SDR 9 (ai	rline) and 4" SDR 9 (condensate) in the	ne trench. 6' of 6" SDR 11,		
			future connection. 6' ris				
			•	rline) and 4" SDR 9 (condensate) in the	ne trench. 6' of 4" SDR 11,		
			future connection. 6' rls	ers for all pipes			
		<del>-</del>	e met required slope				
			oil and regrade disturbe	ed areas			
SCS left the s	site at 5:00	) pm					
+ HDR will do	nument ar	nrovimato /	disturbed area ence all	construction activities on north s	one are completed		
		oproximate (	disturbed area once an	CONSTRUCTION ACTIVITIES ON HOTHES	ope are completed.		
				<u> </u>	· · · · · ·		





Project Name: CCSWDC Phase I LFG Construction - Sequence 1				Date: 2/22/2010	Day: Monday	
Project Owner: Sarasot	a County			Contractor: SCS Field Services		
HDR Project No. 096-12	24466			CQA: Carlos Restrepo (HDR)		
Weather Conditions:						
Temperature			Weather		Precipitation	
Max.	Min.		Clear	Other		
72 F	60 F		Sunny		none	
	_					
Contractor's Employe	es / Title	_		Equipment Used		
Johnny Meier		Superintend	ent			
Steve Miller		Laborer / Dr	iver	2 X Excavator – Kobalko , Komatsi		
Brandon Swift		Laborer / Dr	iver	2 X Truck F-250		
Ray Perez		Laborer / Dr	iver	Flat bed F-450		
Joel Sanchez		Laborer / Dr	iver	Bobcat		
Fred Harlan		Laborer / Dr	iver	2 X articulated dump trucks		
Abel Sanchez		Laborer / Dr	iver	Dozer		
Adolfo Matus		Laborer / Dr	iver			
Work Performed:					•	
SCS arrived of	on site at	7:00 am				
SCS continue	ed excava	tion from ST	A 10+50 to STA 10 + 70	(HP) then downslope to STA 12+75	(using a laser level to achieve a	
5% slope)						
• 18" SDR 17 (	header), 4	4" SDR 9 (co	ndensate), 2" SDR 9 (ai	rline) placed in trench		
SCS installed	2 X 22.5	SDR 11 elb	ows at HP (STA 10+50)			
FD&C (Subco	ontractor)	proceeded to	pour concrete for flare	station pads (7:30 am). Ardaman (Su	ubcontractor) and SCS collected 4	
concrete cylin	nder sam	ples (each) fo	or testing.			
				)' from well. HDR approved change to	Type 1 lateral	
	<u> </u>			ateral connection at STA 11+34		
GW-8 lateral				074.40.05		
			header connection at	STA 12+05		
			SDR 9 installed for AP	to install and compact addition-1	vel around stock and	
			be met required slope	to install and compact additional grav	vei alouliu stack pau	
			om STA 10+25 to STA 1	2+05		
SCS left the state of the			JIN 10 LO 10 11 1			
		· · · ·				



	oject Name: CCSWDC Phase I LFG Construction - Sequence 1			uction - Sequence 1	Date: 2/23/2010	Day: Tuesday	
Project Owner: Sarasota County					Contractor: SCS Field Services		
HDR Pro	oject No. 096-1	24466			CQA: Carlos Restrepo (HDR)		
Veather	r Conditions:						
Tempera	ature			Weather		Precipitation	
Max.		Min.		Clear	Other		
72° F		56° F			Partly Cloudy	None	
Contrac	tor's Employe	os / Titlo			Equipment Used		
		es / Hue	Sun a sinta a d		Equipment Osed		
lohnny N	·		Superintend		A V 7		
Steve Mi			Laborer / Dr		2 X Excavator – Kobalko , Komatsu	J	
Brandon			Laborer / Dr		2 X Truck F-250		
Ray Pere			Laborer / Dr	<del></del>	Flat bed F-450		
Joel San			Laborer / Dr	<del></del>	Bobcat		
Fred Har			Laborer / Dr	<del>-</del>	Articulated dump trucks		
Adolfo M			Laborer / Dr		Dozer		
Abel Sar	nchez ———		Laborer / Dr	iver ————————————————————————————————————			
Work Pe	erformed:						
•	SCS arrived	on site at	7·∩∩ am				
•				A 12+75 to STA 14+00	(using a laser level to achieve a 5% s	lone)	
•					north slope and proceeded to install 1		
				ndensate), 2" SDR 9 (ai	<u> </u>	·	
•				, =	mie, piassa in ilenen		
<u>.</u>	SCS installed GW-8 lateral (10' of 4" SDR 11), 2" SDR 9 (airline) and 4" SDR 9 (condensate) in the trench. 6' risers for all pipes						
•					<u> </u>	the trench. 6' risers for all pipes	
•		11 tee fus	ed for GW-9	lateral. GW-9 header /	airline) and 4" SDR 9 (condensate) in lateral connection at STA 12+82	the trench. 6' risers for all pipes	
•	18"x4" SDR	11 tee fus to be inst	ed for GW-9 alled at a late	lateral. GW-9 header /	<u> </u>		
•	18"x4" SDR 'GW-9 lateral	to be inst	ed for GW-9 alled at a late ed for remote	lateral. GW-9 header / er date wellhead. Remote well	lateral connection at STA 12+82	35	
•	18"x4" SDR 'GW-9 lateral 18"x4" SDR '7' riser of 4" S	to be inst 11 tee fuse 11 tee fuse SDR 11 in	ed for GW-9 alled at a late ed for remote stalled for Re	lateral. GW-9 header / er date wellhead. Remote well	lateral connection at STA 12+82	35	
•	18"x4" SDR 1 GW-9 lateral 18"x4" SDR 1 7' riser of 4" S SCS took ele	to be inst 11 tee fus 11 tee fus SDR 11 in	ed for GW-9 alled at a late ed for remote stalled for Re very 25 ft. Pip	lateral. GW-9 header / er date wellhead. Remote wellhead. Connections	lateral connection at STA 12+82	35	
•	18"x4" SDR 1 GW-9 lateral 18"x4" SDR 1 7' riser of 4" S SCS took ele	to be inst to be inst 11 tee fus SDR 11 in evations en	ed for GW-9 alled at a late ed for remote stalled for Re very 25 ft. Pip kfill from STA	er date wellhead. Remote well emote wellhead. Connect me met required slope	lateral connection at STA 12+82	35	
•	18"x4" SDR GW-9 lateral 18"x4" SDR GW-9 lateral 18"x4" SDR GW-9 lateral 7' riser of 4" SCS took ele SCS proceed SCS left the	to be inst to be inst 11 tee fusc SDR 11 in evations evations evat	ed for GW-9 alled at a late ed for remote stalled for Re very 25 ft. Pip kfill from STA	er date wellhead. Remote well emote wellhead. Connect me met required slope	lateral connection at STA 12+82	35	
•	18"x4" SDR 1 GW-9 lateral 18"x4" SDR 1 7' riser of 4" 3 SCS took ele SCS proceed SCS left the s	to be instituted fusion to be instituted fusions expected to backsite at 6:0	ed for GW-9 alled at a late ed for remote stalled for Re very 25 ft. Pip kfill from STA 0 pm	er date wellhead. Remote well emote wellhead. Connect one met required slope A 12+75 to STA 13+50 lowing was addressed:	lateral connection at STA 12+82	35 date	



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risers for all pipes
<del>.</del>



Project Name: CCSWD	C Phase I	LFG Constr	uction - Sequence 1	Date: 2/25/2010	Day: Thursday	
Project Owner: Sarasota County				Contractor: SCS Field Services		
HDR Project No. 096-12	24466			CQA: Carlos Restrepo (HDR)		
Weather Conditions:	_	·				
Temperature		Weather		Precipitation		
Max.	Min.		Clear	Other		
58 F	38 F			Partly Cloudy	none	
Contractor's Employe	es / Title			Equipment Used		
Johnny Meier		Superintend	ent			
Steve Miller		Laborer / Dri	iver	2 X Excavator Kobalko , Komatsu		
Brandon Swift		Laborer / Dri	iver	2 X Truck F-250		
Ray Perez		Laborer / Dr	iver	Flat bed F-450		
Joel Sanchez		Laborer / Dr	iver	Bobcat		
Fred Harian		Laborer / Dr	iver	2 X articulated dump trucks		
Adolfo Matus Laborer / [		Laborer / Dr	iver	Dozer		
Abel Sanchez		Laborer / Dr	iver	· · · · · · · · · · · · · · · · · · ·		
·						
Work Performed:						
SCS arrived of	on site at	7:00 am				
SCS installed	GW-10 la	ateral (79' of	4" SDR 11), 2" SDR 9 (a	irline) and 4" SDR 9 (condensate) in	the trench. 6' risers for all pipes	
SCS continue	ed excava	tion from ST/	A 15+50 to STA 16+50 (I	using a laser level to achieve a 5% sk	ope)	
SCS installed	18" SDR	17 (header),	2" SDR 9 (airline) and 4	" SDR 9 (condensate) in the trench.		
SCS took ele	vations ev	ery 25 ft. Pip	e met required slope			
SCS proceed	ed to bac	kfill from STA	15+00 to STA 16+00			
SCS left the s	site at 6:00	0 pm				
<del></del>			_ <del></del>			
·						



Project Name: Co	Project Name: CCSWDC Phase I LFG Construction - Sequence 1			Date: 2/26/2010	Day; Friday	
Project Owner: Sarasota County				Contractor: SCS Field Servi	ces	
HDR Project No. 096-124466				CQA: Carlos Restrepo (HDR)		
Veather Condit	lons:					
emperature			Weather		Precipitation	
/lax.	Min.	_	Clear	Other		
8 F	45 F		Sunny		none	
ontractor's Em	ployees / Title			Equipment Used		
ohnny Meier	<del>`                                    </del>	Superintend	ent	Forklift		
teve Miller		Laborer / Dr		2 X Excavator - Kobalko , K	omatsu	
bel Sanchez		Laborer / Dr		2 X Truck F-250		
dolfo Matus		Laborer / Dr		Flat bed F-450		
randon Swift		Laborer / Dr		Bobcat		
	<u> </u>			articulated dump truck		
		-		Dozer		
		<del> </del>		DOZEI		
Vork Performed						
	rrived on site at	7:00 am				
• 18" we	Iding machine o	out of service	SCS waiting on replace	cement parts		
					sed looking west. A 90° elbow needed	
_			D. Connection to LCO a			
• Followi	ing sump and p	its delivered -	- HDR verified all dimen	sions:		
	Sump 2					
<b>→</b>	4 x airline va	alve pits (36"	SDR 32.5)			
	1 x FM valve	e pit (48" SDF	32.5) – SCS waiting o	n remaining 3 FM valve pits		
<b>→</b>	3 x Header	vaive pit (48"	SDR 32.5 w/ 18" outlets	3)		
<b>→</b>	1 x Header	valve pit (48"	SDR 32.5 w/ 24" outlets	s)		
• SCS c	ontinued excava	ation from ST	A 16+50 to STA 16+78	and installed U-1(using a lase	r level to achieve a 5% slope)	
• U-1 at	STA 16+73					
• U-1 wa	s trenched to the	ne depth indic	ated on plans and spec	ifications. HDR verified that U-	1 was set level and had bedding and	
backfill	as specified in	plans.				
		<del>_ ` _ `</del>		4" SDR 9 (condensate) in the t		
SCS w	rill connect a 90	<sup>0</sup> elbow and a	blind flange at the eas	t side of U-1. SCS will continue	with 18" SDR 17 header on the south	
	then continue of					
• SCS to	ook elevations e	every 25 ft. Pip	pe met required slope			
<ul> <li>SCS is</li> </ul>	oft the site at 6:0	00 pm				



Project Name: CCSWDC Phase I LFG Construction - Sequence 1					Date: 2/27/2010	Day: Saturday	
Project Owner: Sarasota County					Contractor: SCS Field Services		
HDR Proj	ect No. 096-1	24466	_		CQA: Carlos Restrepo (HDR)		
Weather	Conditions:						
Temperat	ture			Weather		Precipitation	
Max.		Min.		Clear	Other		
54 F		45 F			Overcast / Rain	0.23	
					'	<u>'</u>	
Contract	or's Employe	es / Title			Equipment Used		
Johnny M	leier		Superintend	ent	Forklift		
Steve Mil	ler		Laborer / Dr	iver	2 X Excavator - Kobalko , Ko	matsu .	
Abel San	chez		Laborer / Dri	iver	2 X Truck F-250		
Adolfo Ma	atus		Laborer / Dr	iver	Flat bed F-450		
Brandon	Swift		Laborer / Driver		Boḥcat		
					articulated dump truck		
			_		Dozer		
Work Per	rformed:						
•	SCS arrived	on site at	7:00 am	_			
•	SCS proceed	ied to dre	ss up north si	lope			
•	Pipe crew be	gan movii	ng 18" SDR 1	7 pipes to Phase I to fi	use for stringers. Fusing will be o	conducted next week	
<u> </u>	Due to weath	er conditi	ons, SCS left	the site at 12:00 pm			
		-	<u> </u>				
		_					
			_				





Project Name: CCSWDC Phase I LFG Construction - Sequence 1			uction - Sequence 1	Date: 3/1/2010	Day:Monday				
Project Owner: Sarasot	a County			Contractor: SCS Field Services					
HDR Project No. 096-1	24466			CQA: Carlos Restrepo (HDR)					
Weather Conditions:									
Temperature			Weather		Precipitation				
Мах.	Min.		Clear	Other					
67 F	56 F		Sunny		none				
Contractor's Employe	es / Title			Equipment Used					
Jhonny Meier		Superintend	ent	Forklift					
Steve Miller		Laborer / Dr	iver	2 X Excavator – Kobalko , Komatsu					
Brandon Swift		Laborer / Dr	iver .	2 X Truck F-250					
Abel Sanchez		Laborer / Dri	iver	Flat bed F-450					
Adolfo Matus		Laborer / Dr	iver	Bobcat	Bobcat				
				2 X articulated dump trucks					
				Dozer					
Work Performed:									
SCS arrived	on site at	7:00 am							
Pipe crew pro	ceeded to	o fuse 18" SE	OR 17 (header) for string	ers at an authorized area on Phase I	. A max. of 250 LF stringers used				
FPL arrived of	n site to i	nstall new po	wer pole for Flare Station	on. County's preferred location (150 ft	west of the chain link fence) could				
not be selecte	ed. FPL re	equired an ea	sement permit and coul	d take 2 additional months for proces	sing. FPL decided to install power				
pole 3 ft sout	h of the cl	hain link fenc	e instead of 30 ft as plan	nned.					
Flare skid / S	tack arrive	ed on site. Ur	nloading will be conducte	ed tomorrow when crane is available					
	The state of the s								
SCS left the s	site at 6:00	) pm							
			<del></del>						



,	Name: CCSWD	C Phase I	LFG Constr	ruction - Sequence 1	Date: 3/2/2010	Day:Tuesday		
Project (	Owner: Sarasot	a County			Contractor: SCS Field Services			
IDR Pro	oject No. 096-1	24466			CQA: Carlos Restrepo (H	DR)		
Veathe	r Conditions:				·			
empera	ature		·	Weather		Precipitation		
lax.		Min.		Clear	Other			
7°F		49°F			Overcast / Rain	0.21 inches		
	toda Baratana				· I			
	tor's Employe				Equipment Used			
honny l			Superintend		Forklift			
teve M			Laborer / Dr	<u>_</u>	2 X Excavator – Kobelco ,	Komatsu		
randon			Laborer / Dr		2 X Truck F-250			
bel Sar			Laborer / Dr		Flat bed F-450			
Adolfo Matus Laborer / Driv			Laborer / Dr	iver	Bobcat			
					Articulated dump trucks			
					Dozer			
		_						
•	when concre Compressor s compressor s SCS requeste	d and proceed to has readelivered desize. Comped time example of the example of t	ched design on skid. This pressor pad of tension due sing 4° SDR oday: 2,000 L	strength compressor slightly land dimensions will change to rain in the month of 9 (condensate) for strip	ger than expected. HDR will o	and stack on concrete slabs will occur contact SCS in order to clarify changes or ill review conditions per contract ingers are used		
			og #E the fel	lowing was addressed:		<u> </u>		
*				ule in order to finalize i	north slope			



Project Name: CCSWD	C Phase	I LFG Constr	uction - Sequence 1	Date: 3/3/2010	Day:Wednesday				
Project Owner: Sarasot	a County			Contractor: SCS Field Services					
HDR Project No. 096-1	24466			CQA: Carlos Restrepo (HDR)					
Weather Conditions:									
Temperature			Weather		Precipitation				
Max.	Min.		Clear	Other					
59 F	F 45 F Partly Cloudy none								
		- 1000							
Contractor's Employe	es / Title			Equipment Used					
Jhonny Meier		Superintend	ent	Forkilft					
Steve Miller		Laborer / Dri	ver	2 X Excavator – Kobalko , Komatsu					
Brandon Swift		Laborer / Dri	yer	2 X Truck F-250					
Fred Harlan		Laborer / Dri	ver	Flat bed F-450					
Adolfo Matus		Laborer / Dri	ver	Bobcat					
Abel Sanchez		Laborer / Dri	ver	2 X articulated dump trucks					
				Dozer					
	.,,								
Work Performed:			The second secon						
SCS arrived of	on site at 7	7:00 am							
SCS proceed	ed to rem	ove existing	lownchute pipe near U-3						
SCS continue	d excava	tion from U-3	heading west to header I	olind flange (future connection to Pha	se II) and installed				
Header valve	pit and F	orcemain (co	ndensate) valve pit						
<ul> <li>Trench excav</li> </ul>	• Trench excavated from STA 0+00 to STA 0+95 (heading west) (using a laser level to achieve a 5% slope)								
<ul> <li>Header valve</li> </ul>	Header valve pit located at STA 0+63								
Forcemain (co	Forcemain (condensate) valve pit located at STA 0+70								
SCS took ele	SCS took elevations every 25 ft. Pipe met required slope								
SCS proceed	SCS proceeded to backfill from STA 0+00 to STA 0+63								
Airline valve p	olt will be i	installed tomo	DITOW						
<ul> <li>SCS left the s</li> </ul>	ite at 6:00	) pm							
				· · · · · · · · · · · · · · · · · · ·					
<u> </u>				And the second s					
		***************************************		The state of the s	•				



Project Name: CCSWDC Phase I LFG Construction - Sequence 1				uction - Sequence 1	Date: 3/4/2010	Day:Thursday		
Project (	Owner: Sarasot	a County			Contractor: SCS Field Services			
HDR Pn	HDR Project No. 096-124466				CQA: Carlos Restrepo (HDR)			
Weathe	r Conditions:							
Temper	ature			Weather		Precipitation		
Max.	Max Min. Clear			Clear	Other			
59 F		43 F			Partly Cloudy	none		
			***************************************	***************************************				
Contrac	tor's Employe	es / Title			Equipment Used	•		
Jhonny	Meler		Superintend	ent				
Steve M	iller	·	Laborer / Dr	iver	2 X Excavator - Kobalko , Komatsı	J .		
Brandon	Swift		Laborer / Dr	iver	2 X Truck F-250			
Ray Per	êz		Laborer / Dr	lver	Flat bed F-450			
Joel Sar	nchėż		Laborer / Dr	lver	Bobcat			
Fred Ha	rlan		Laborer / Dr	lver	2 X articulated dump trucks			
Abel Sa	nchez		Laborer / Dr	iver	Dozer			
				•				
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Work P	erformed:							
•	SCS arrived	on site at i	7:00 am	- Allendaria - All				
•	SCS proceed	ed to insta	all airline val	e pit west of U-3				
+	SCS started	excavation	on south sk	ope to install Sump # 2.	Per design, Sump #2 is required to h	ave 6.5' of cover at the 18" stubs		
	Approved Sur	mp # 2 wil	l only have 5	of cover at the 18" stul	bs. 18" header will transition to 3' of c	over. HDR approved this change		
•	Ball valve and	d bentonite	e for airline v	alve pit will be installed	next week. Ball valve not delivered ye	et.		
	SCS proceed	ed to bac	kfill Sump # 2	2 and area around valve	e pits on north slope			
•	<ul> <li>SCS proceeded to excavate at U-3 and U-2 to expose the 4" stub for drain line to existing LCO, SCS fused a 90 elbow and a</li> </ul>							
	butt cap before	re air test	next week. L	J-1 4" stub for drain line	had a butt cap already			
-	HDR clarified	to SCS th	nat 4" SDR 9	condensate line will con	nnect to the LCO-1N only. SCS will pr	epare this connection tomorrow		
•	SCS left the s	ite at 6:00	) pm					
	•				The state of the s			
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<del></del>		····						
	***************************************							
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Project Name: CCSWD	C Phase	LFG Constr	uction - Sequence 1	Date: 3/5/2010	Day; Friday				
Project Owner: Sarasola County				Contractor: SCS Field Services					
HDR Project No. 096-124466				CQA: Don Whiting (HDR)					
Weather Conditions:			,						
Temperature			Weather		Precipitation				
Max.	Min.		Clear	Other					
60 F	40 F		Sunny	Windy	None				
Contractor's Employe	es / Title			Equipment Used					
Johnny Meier		Superintend	ent	Forklift					
Steve Miller		Laborer / Dri	ver	2 X Excavator – Kobelco , Komatsu					
Brandon Swift		Laborer / Dri	ver	2 X Truck F-250					
Ray Perez		Laborer / Dri	ver	Flat bed F-450					
Joel Sanchez		Laborer / Dri	ver	Bobcat					
Fred Harlan		Laborer / Dri	ver	articulated dump truck					
Abel Sanchez		Leborer / Dri	ver	Dozer					
					,				
		Torquisipi and a second							
Work Performed:									
SCS arrived of	n site at 7	7:00 am							
Excavaled to	expose 1	8" header and	d fused 4" saddle fittings t	to top of header, 1 each, east side of	U1, U2 & U3.				
Contractor bu	tt fused (2	2) 18° 45° ber	nds together then fused 1	8" diam. pipe lengths on either end o	of bends to make 90° comer				
section. Cont	ractor als	o installed bli	nd flange on end of head	er in preparation for air test. Total len	gth = 24+/- LF.				
SCS excavate	ed and ins	stalled 24 ft. h	eader corner section eas	t of U1.					
Contractor Ins	Contractor installed 24+/- LF of 2" airline and 4" condensate return piping around corner adjacent to header, east of U1.								
SCS also inst									
under header	······································	***************************************							
Contractor ba	ckfilled al	l new piping i	nstalled east of U1 excep	t 4" saddle fitting on top of header.					
· · · · · · · · · · · · · · · · · · ·		Va							
					A STATE OF THE STA				
Walter State Control of the Control									
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Project Name: CCSWDC Phase I LFG Construction - Sequence 1			uction - Sequence 1	Date:3/6/2010	Day: Saturday		
Project Owner: Sarasot	a County			Contractor: SCS Field Services			
HDR Project No. 096-124466				CQA: Don Whiting (HDR)			
Weather Conditions:							
Temperature			Weather	,	Precipitation		
Max. Min. Clear		Clear	Other				
50 F	60 F		Sunny		None ·		
Contractor's Employe	es / Title			Equipment Used			
Johnny Meler		Superintend	ent	Forklift			
Steve Miller		Laborer / Dri	ver	2 X Excavator - Kobelco , Kometsu			
Brandon Swift		Laborer / Dri	ver	2 X Truck F-250			
Ray Perez		Laborer / Dri	ver	Flat bed F-450			
Joel Sanchez		Laborer / Dri	ver	Bobcat	_		
Fred Harlan	ı	Laborer / Dri	ver	articulated dump truck			
Abel Sanchez		Laborer / Dri	ver	Dozer			
Work Performed:				•			
SCS arrived of	n site at 7	:00 am		•			
Contractor co	re drilled h	eader pipe i	nside each 4" saddle fitti	ings installed yesterday, 1 each, on ea	ast side of U1, U2 & U3.		
. Fused 4° riser	pipes to e	ach saddle	fitting for remote wellhea	d condensate then backfilled each ex	cavation at U1, U2 & U3.		
In staging are	a, crew fal	bricated 6" ri	sers for (5) remote wellh	eads to be installed at existing leache	ite cleanouts on north slope.		
SCS fusing la	terals to 6	risers at no	rthwest comer of landfill				
Preliminary la		hs for remote	e wellheads:				
LCO-1N = 29 LF							
LCO-2N = 93				The Manager of State	,		
LCO-3N = 38 LF LCO-4N = 108 LF							
LCO-5N = 36 LF							
		r tested show	a ground ador to install	ation then cut to fit after testing is com	nlotad		
NOTE: Estera		TIOSTEG BOOT	re ground prior to distant	agost their car to it ener tearing as com	their		
	······································	**************************************	A CONTRACTOR OF THE CONTRACTOR				
				The state of the s	и <del>телька в пенерапрациинаті мененульна (Мі</del> ніна на подагана на		
	***************************************		Man _ man				
				. Competition of the state of t			
	· · · · · · · · · · · · · · · · · · ·						
***************************************							



Project Name: CCSWI			uction - Sequence 1	Date: 3/8/2010	Day:Monday				
Project Owner: Sarasota County				Contractor: SCS Field Services					
HDR Project No. 096-124466				CQA: Carlos Restrepo (HDR)					
Weather Conditions:									
Temperature			Weather		Precipitation				
Max.	Min.		Clear	Other					
70 F	50 F			Partly Cloudy	none				
Contractor's Employe	es / Title			Equipment Used					
Jhonny Meler		Superintend	ent	Forklift					
Joel Sanchez		Laborer / Dr	lver	2 X Excavator – Kobalko , Komats	Ц				
Brandon Swift		Laborer / Dri	iver	2 X Truck F-250					
Abel Sanchez	10	Laborer / Dri	iver	Flat bed F-450					
Ray Perez	- IIII III	Laborer / Dri	iver	Bobcat					
Fred Harlan		Laborer / Dri	ver	2 X articulated dump trucks					
·				Dozer					
Work Performed:			· · · · · · · · · · · · · · · · · · ·						
SCS arrived	on site at 1	7:00 am							
<del></del>	***************************************		re for airline valve pit (w	est of U-3)					
		Manager	flare / stack and overal		munding - In the control of the cont				
				gauges connected at GW-1 risers. I	Pipes tested at 10 psig for 1 hour.				
No loss in pr			***************************************						
SCS air teste	d lateral fo	or remote we	lihead at U-3. Pipe teste	d at 10 psig for 1 hour. No loss in pro	essure during testing.				
				and remote wellhead lateral to LCO					
12' (4" SDR 1	12' (4" SDR 11- drainline) connected to LCO-5N								
27.5' (6" SDF	27.5' (6" SDR 11 - remote wellhead lateral) and 6' riser connected to LCO-5N								
8' (4" SDR 1	8' (4" SDR 11 – for sample port) connected to LCO-5N								
	8" (6" SDR 11 - for sample port) connected to LCO-5N								
SCS proceed									
SCS left the i	site at 6:00	) pm							
		ti tilini mingarik							
			<u> </u>		anne di				
					•				
		·		Marie Constitution of the					



Project Name: CCSWDC Phase I LFG Construction - Sequence 1			uction - Sequence 1	Date: 3/9/2010	Day:Tuesday				
Project Owner: Sarasota County				Contractor: SCS Field Se	ervices				
HDR Pr	oject No. 096-1	24466			CQA: Carlos Restrepo (I	HDR)			
Weathe	r Conditions:								
Temper	ature			Weather	_	Precipitation			
Max.		Min.		Clear	Other				
70° F		56 ° F			Mostly Cloudy	none			
***************************************	14.48441	, <del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>							
Contrac	tor's Employe	es / Title	<b>*</b>		Equipment Used				
Jhonny	Meier		Superintend	ent	Forklift				
Steve M	iller	_	Laborer / Dri	ver	2 X Excavator Kobelco	, Komatsu			
Brandor	Swift		Laborer / Dri	ver	2 X Truck F-250				
Abel Sa	nchez		Laborer / Dri	ver	Flat bed F-450				
Fred Ha	rlen		Laborer / Dri	ver	Bobcat				
Ray Per	ez		Laborer / Dri	ver	Articulated dump trucks				
Joel Sar	nchez	_	Laborer / Dri	ver	Dozer				
						•			
Work P	erformed:	······································							
•	SCS arrived o	n site at	7:00 am						
•	Proceeded to	dress up	area around	U-3	- Lunding	the rule in the second			
•	Pipe crew tes	ted remai	ning laterals i	for remote wellheads ar	nd lateral for U-trap drain lin	es. Pipes tested at 10 psig for 1 hour. No			
***************************************	loss in pressu	ıre during	testing						
•	Connection of	drain line	es and remote	e wellhead laterals to re	maining LCOs will continue	at a later date			
	Hyatt Survey on site to survey header pipe on north slope								
•	SCS started excavation on south slope to install 18" SDR 17 header. Will start at Sump # 2 heading east. Excavation from								
**************************************	STA 0+00 (Sump #2) to STA1+50 (using a laser level to achieve a 5% slope)								
				densate), 2" SDR 9 (al					
					o Sump #2 at STA 0+15				
•	18"x8" SDR 11 tee fused for AP. AP / header connection at STA 0+78  SCS took elevations every 25 ft. Pipe met required slope								
-			····						
•		·····		m STA 0+00 to STA 0+	80	The state of the s			
•	SCS left the s	ne ar 6:30	y pm	<del></del>					
•	During Progre	ss Meetir	ng #6, the folk	owing was addressed:		and the second s			
	New crew will	arrive ne	xt week to fus	se 24" and 30" pipes / ir	nstallation				
•	New crew will arrive next week to fuse 24" and 30" pipes / installation  SCS will install lateral for remote wellheads on north slope. Connections to LCO 1N to LCO 4N to continue after approval from								
•						LCO 4N to continue after approval from			



# HR

Project Name: CCSWDC Phase I LFG Construction - Sequence 1			uction - Sequence 1	Date: 3/10/2010	Day:Wednesday				
Project Owner: Sarasota County				Contractor: SCS Field Services	٠				
HDR Project No. 096-1	24466			CQA: Carlos Restrepo (HDR)					
Weather Conditions:		111111111111							
Temperature			Weather		Precipitation				
Max.	Min.		Clear	Other					
76 F	63 F			Partly Cloudy	none				
Contractor's Employe	es / Title			Equipment Used					
Jhonny Meier		Superintend	ent	Forklift					
Steve Miller		Laborer / Dri	ver	2 X Excavator - Kobalko , Komatsu					
Brandon Swift		Laborer / Dri	ver	2 X Truck F-250					
Fred Harlan		Laborer / Dri	ver	Flat bed F-450					
Abel Sanchez		Laborer / Dri	ver	Bobcat					
Joel Sanchez		Laborer / Dri	ver	2 X articulated dump trucks					
Ray Perez Laborer / Driver				Dozer	The state of the s				
Work Performed:	***************************************	With the same of t	44. Mark 1991 1991 1991 1991 1991 1991 1991 19						
SCS arrived of	n site at 7	7:00 am							
SCS continue	d excavat	ion from STA	1+50 to STA 2+75 (usin	ng a laser level to achieve a 5% slope	)				
Cliff Koenig (I	IDR) prov	ided distance	es for CMP to be installed	on south slope where future access	road will cross the header pipe				
78' of CMP wi	il be place	ed 29' from G	W-22						
8' risers of 8"	SDR 11, 4	1° SDR 9, 2°	SDR 9 installed for AP						
• 2" and 4" SDF	R 9 risers a	at Sump # 2	will be installed at a tater	date					
SCS proceed									
SCS took elev	SCS took elevations every 25 ft. Pipe met required slope								
SCS proceed	ed to back	fill trench fro	m STA 0+75 to STA 2+2	5					
SCS left the s	ite at 6:00	pm			•				
The second secon									
The state of the s		ading trench	from STA 1+50 to STA	2+75 to meet proper cover. A lase	r trench was not used during				
initial excava	tion.								
	·		•						
		·							
	···	······································							



HDR Project No. 096-124466 CQA: Carlos Restrepo (HDR)  Weather Conditions:	Project Name: CCSWI	C Phase I	LFG Constr	uction - Sequence 1	Date: 3/11/2010	Day:Thursday	
Weather Conditions:  Temperature	Project Owner: Sarasota County			-	Contractor: SCS Field Se	vices	
Temperature  Max. Min. Clear  Other  Cloudy none  Contractor's Employees / Title  Steve Miller  Laborer / Driver  Labore	HDR Project No. 096-1	24466		<del></del>	CQA: Carlos Restrepo (H	IDR)	
Max. Min. Clear Other  Contractor's Employees / Title  Contractor's Fred in Foother  Contractor's Fred i	Weather Conditions:						
Contractor's Employees / Title  Equipment Used  Jhonry Meler  Superintendent  Superintendent  Laborer / Driver  2 X Excavator – Kobalko , Komatsu  Brandon Swift  Laborer / Driver  2 X Truck F-250  Ray Perez  Laborer / Driver  Bobcat  Fred Harlan  Laborer / Driver  2 X articulated dump trucks  Abel Sanchez  Laborer / Driver  Dozer  Work Performed:  SCS arrived on site at 7:00 am  SCS continued excavation from STA 2+75 to STA 4+00 (using a laser level to achieve a 5% slope)  18"'As" SDR 11 tee fused for GW-23 lateral (54" of 4" SDR 11), 2" SDR 9 (airline) and 4" SDR 9 (condensate) in the trench. 6" risers for all pipe  GW-22 branch saddle at STA 2+05  Remote wellhead branch saddle at STA 3+01  18" SDR 17 (header), 4" SDR 9 (condensate), 2" SDR 9 (airline) placed in trench  4 sections of 20" CMP (80" total) installed on south slope. Cliff Koenig (HDR) clarified compaction requirement. A 95% Modified  Proctor not required. A 6" crushed gravel bedding, compacted with bucket was installed  SCS took elevations every 25 ft. Pipe met required slope.  SCS proceeded to backfill from STA 2+25 to STA 3+91	Temperature Weather				,	Precipitation	
Contractor's Employees / Title  Superintendent Share Miller Share Miller Subperintendent Share Miller Share M	Max.	Min.	_	Clear	Other		
Unionny Meier  Superintendent  Superintendent  Laborer / Driver  Bobcat  Fred Harlan  Laborer / Driver  Laborer / Driver  Bobcat  Fred Harlan  Laborer / Driver  Dozer  Work Performed:  SCS arrived on site at 7:00 am  SCS continued excavation from STA 2+75 to STA 4+00 (using a laser level to achieve a 5% slope)  18"x4" SDR 11 tee fused for GW-23 lateral. GW-23 header / lateral connection at STA 1+46  SCS installed GW-23 lateral (54' of 4" SDR 11), 2" SDR 9 (airline) and 4" SDR 9 (condensate) in the trench. 6" risers for all pipe  GW-22 branch saddle at STA 2+05  Remote wellhead branch saddle at STA 3+01  18" SDR 17 (header), 4" SDR 9 (condensate), 2" SDR 9 (airline) placed in trench  4 sections of 20" CMP (80" total) installed on south slope. Cliff Koenig (HDR) clarified compaction requirement. A 95% Modified Proctor not required. A 6" crushed gravel bedding, compacted with bucket was Installed  SCS took elevations every 25 ft. Pipe met required slope.  SCS took elevations at start and end of CMP. 18" header elevations not taken inside CMP  SCS proceeded to backfill from STA 2+25 to STA 3+91	76 F	67 F			Cloudy	none	
Steve Miller  Laborer / Driver  Bobcat  Fred Harlan  Laborer / Driver  Laborer / Driver  Dozer  Bobcat  Laborer / Driver  Laborer / Driver  Laborer / Driver  Dozer  Work Performed:  SCS arrived on site at 7:00 am  SCS continued excavation from STA 2+75 to STA 4+00 (using a laser level to achieve a 5% slope)  18"x4" SDR 11 tee fused for GW-23 lateral. GW-23 header / lateral connection at STA 1+46  SCS installed GW-23 lateral (54' of 4" SDR 11), 2" SDR 9 (airline) and 4" SDR 9 (condensate) in the trench. 6" risers for all pipe GW-22 branch saddle at STA 2+05  Remote wellhead branch saddle at STA 3+01  18" SDR 17 (header), 4" SDR 9 (condensate), 2" SDR 9 (airline) placed in trench  4 sections of 20" CMP (80" total) installed on south slope. Cliff Koenig (HDR) clarified compaction requirement. A 95% Modified Proctor not required. A 6" crushed gravel bedding, compacted with bucket was Installed  SCS took elevations every 25 ft. Pipe met required slope.  SCS took elevations at start and end of CMP. 18" header elevations not taken inside CMP  SCS proceeded to backfill from STA 2+25 to STA 3+91		•			-	,	
Steve Miller Laborer / Driver 2 X Excavator – Kobalko , Komatsu  2 X Truck F-250  Ray Perez Laborer / Driver Flat bed F-450  Roel Sanchez Laborer / Driver Bobcat  Tred Harlan Laborer / Driver Dozer  Nork Performed:  SCS arrived on site at 7:00 am  SCS continued excavation from STA 2+75 to STA 4+00 (using a laser level to achieve a 5% slope)  18"x4" SDR 11 tee fused for GW-23 lateral. GW-23 header / lateral connection at STA 1+46  SCS installed GW-23 lateral (54" of 4" SDR 11), 2" SDR 9 (airline) and 4" SDR 9 (condensate) in the trench. 6" risers for all pipe  GW-22 branch saddle at STA 2+05  Remote wellhead branch saddle at STA 3+01  18" SDR 17 (header), 4" SDR 9 (condensate), 2" SDR 9 (airline) placed in trench  4 sections of 20" CMP (80" total) installed on south slope. Cliff Koenig (HDR) clarified compaction requirement. A 95% Modified Proctor not required. A 6" crushed gravel bedding, compacted with bucket was installed  SCS took elevations at start and end of CMP. 18" header elevations not taken inside CMP  SCS proceeded to backfill from STA 2+25 to STA 3+91	Contractor's Employe	es / Title			Equipment Used		
Brandon Swift Laborer / Driver Plat bed F-450  Laborer / Driver Bobcat Laborer / Driver Bobcat Laborer / Driver Bobcat Laborer / Driver Dozer  Nork Performed: SCS arrived on site at 7:00 am SCS continued excavation from STA 2+75 to STA 4+00 (using a laser level to achieve a 5% slope) 18"x4" SDR 11 tee fused for GW-23 lateral. GW-23 header / lateral connection at STA 1+46 SCS installed GW-23 lateral (54' of 4" SDR 11), 2" SDR 9 (airline) and 4" SDR 9 (condensate) in the trench. 6' risers for all pipe GW-22 branch saddle at STA 2+05 Remote wellhead branch saddle at STA 3+01 18" SDR 17 (header), 4" SDR 9 (condensate), 2" SDR 9 (airline) placed in trench 18" SDR 17 (header), 4" SDR 9 (condensate), 2" SDR 9 (airline) placed in trench SCS took elevations every 25 ft. Pipe met required slope. SCS took elevations at start and end of CMP. 18" header elevations not taken inside CMP SCS proceeded to backfill from STA 2+25 to STA 3+91	Jhonny Meier	_	Superintend	ent	Forklift		
Ray Perez Laborer / Driver Bobcat Laborer / Driver Bobcat Laborer / Driver Dozer  Nork Performed: SCS arrived on site at 7:00 am SCS continued excavation from STA 2+75 to STA 4+00 (using a laser level to achieve a 5% slope) 18"x4" SDR 11 tee fused for GW-23 lateral. GW-23 header / lateral connection at STA 1+46 SCS installed GW-23 lateral (54' of 4" SDR 11), 2" SDR 9 (airline) and 4" SDR 9 (condensate) in the trench. 6' risers for all pipe GW-22 branch saddle at STA 2+05 Remote wellhead branch saddle at STA 3+01 18" SDR 17 (header), 4" SDR 9 (condensate), 2" SDR 9 (airline) placed in trench 4 sections of 20' CMP (80' total) installed on south slope. Cliff Koenig (HDR) clarified compaction requirement. A 95% Modified Proctor not required. A 6" crushed gravel bedding, compacted with bucket was Installed SCS took elevations every 25 ft. Pipe met required slope. SCS took elevations at start and end of CMP. 18" header elevations not taken inside CMP SCS proceeded to backfill from STA 2+25 to STA 3+91	Steve Miller		Laborer / Dri	ver	2 X Excavator – Kobalko ,	Komatsu	
Index Sanchez  Laborer / Driver  Laborer / Driver  Laborer / Driver  Dozer  Nork Performed:  SCS arrived on site at 7:00 am  SCS continued excavation from STA 2+75 to STA 4+00 (using a laser level to achieve a 5% slope)  18°x4° SDR 11 tee fused for GW-23 lateral. GW-23 header / lateral connection at STA 1+46  SCS installed GW-23 lateral (54' of 4° SDR 11), 2° SDR 9 (airline) and 4° SDR 9 (condensate) in the trench. 6' risers for all pipe  GW-22 branch saddle at STA 2+05  Remote wellhead branch saddle at STA 3+01  18° SDR 17 (header), 4° SDR 9 (condensate), 2° SDR 9 (airline) placed in trench  4 sections of 20' CMP (80' total) installed on south slope. Cliff Koenig (HDR) clarified compaction requirement. A 95% Modified Proctor not required. A 6° crushed gravel bedding, compacted with bucket was installed  SCS took elevations at start and end of CMP. 18° header elevations not taken inside CMP  SCS proceeded to backfill from STA 2+25 to STA 3+91			Laborer / Dr	ver	2 X Truck F-250		
Fred Harlan  Laborer / Driver  Dozer  Work Performed:  SCS arrived on site at 7:00 am  SCS continued excavation from STA 2+75 to STA 4+00 (using a laser level to achieve a 5% slope)  18"x4" SDR 11 tee fused for GW-23 lateral. GW-23 header / lateral connection at STA 1+46  SCS installed GW-23 lateral (54' of 4" SDR 11), 2" SDR 9 (airline) and 4" SDR 9 (condensate) in the trench. 6' risers for all pipe  GW-22 branch saddle at STA 2+05  Remote wellhead branch saddle at STA 3+01  18" SDR 17 (header), 4" SDR 9 (condensate), 2" SDR 9 (airline) placed in trench  4 sections of 20' CMP (80' total) installed on south slope. Cliff Koenig (HDR) clarified compaction requirement. A 95% Modified Proctor not required. A 6" crushed gravel bedding, compacted with bucket was installed  SCS took elevations at start and end of CMP. 18" header elevations not taken inside CMP  SCS proceeded to backfill from STA 2+25 to STA 3+91	Ray Perez		Laborer / Dri	ver	Flat bed F-450		
Abel Sanchez  Laborer / Driver  Dozer  Work Performed:  SCS arrived on site at 7:00 am  SCS continued excavation from STA 2+75 to STA 4+00 (using a laser level to achieve a 5% slope)  18"x4" SDR 11 tee fused for GW-23 lateral. GW-23 header / lateral connection at STA 1+46  SCS installed GW-23 lateral (54' of 4" SDR 11), 2" SDR 9 (airline) and 4" SDR 9 (condensate) in the trench. 6' risers for all pipe  GW-22 branch saddle at STA 2+05  Remote wellhead branch saddle at STA 3+01  18" SDR 17 (header), 4" SDR 9 (condensate), 2" SDR 9 (airline) placed in trench  4 sections of 20' CMP (80' total) installed on south slope. Cliff Koenig (HDR) clarified compaction requirement. A 95% Modified Proctor not required. A 6" crushed gravel bedding, compacted with bucket was installed  SCS took elevations every 25 ft. Pipe met required slope.  SCS took elevations at start and end of CMP. 18" header elevations not taken inside CMP  SCS proceeded to backfill from STA 2+25 to STA 3+91	Joel Sanchez		Laborer / Dri	ver	Bobcat		
Abel Sanchez  Laborer / Driver  Dozer  Work Performed:  SCS arrived on site at 7:00 am  SCS continued excavation from STA 2+75 to STA 4+00 (using a laser level to achieve a 5% slope)  18°x4" SDR 11 tee fused for GW-23 lateral. GW-23 header / lateral connection at STA 1+46  SCS installed GW-23 lateral (54' of 4" SDR 11), 2" SDR 9 (airline) and 4" SDR 9 (condensate) in the trench. 6' risers for all pipe  GW-22 branch saddle at STA 2+05  Remote wellhead branch saddle at STA 3+01  18" SDR 17 (header), 4" SDR 9 (condensate), 2" SDR 9 (airline) placed in trench  4 sections of 20' CMP (80' total) installed on south slope. Cliff Koenig (HDR) clarified compaction requirement. A 95% Modified Proctor not required. A 6" crushed gravel bedding, compacted with bucket was installed  SCS took elevations every 25 ft. Pipe met required slope.  SCS took elevations at start and end of CMP. 18" header elevations not taken inside CMP  SCS proceeded to backfill from STA 2+25 to STA 3+91	Fred Harlan		Laborer / Dri	ver	2 X articulated dump trucks		
<ul> <li>SCS arrived on site at 7:00 am</li> <li>SCS continued excavation from STA 2+75 to STA 4+00 (using a laser level to achieve a 5% slope)</li> <li>18"x4" SDR 11 tee fused for GW-23 lateral. GW-23 header / lateral connection at STA 1+46</li> <li>SCS installed GW-23 lateral (54' of 4" SDR 11), 2" SDR 9 (airline) and 4" SDR 9 (condensate) in the trench. 6' risers for all pipe</li> <li>GW-22 branch saddle at STA 2+05</li> <li>Remote wellhead branch saddle at STA 3+01</li> <li>18" SDR 17 (header), 4" SDR 9 (condensate), 2" SDR 9 (airline) placed in trench</li> <li>4 sections of 20' CMP (80' total) installed on south slope. Cliff Koenig (HDR) clarified compaction requirement. A 95% Modified Proctor not required. A 6" crushed gravel bedding, compacted with bucket was installed</li> <li>SCS took elevations every 25 ft. Pipe met required slope.</li> <li>SCS took elevations at start and end of CMP. 18" header elevations not taken inside CMP</li> <li>SCS proceeded to backfill from STA 2+25 to STA 3+91</li> </ul>	Abel Sanchez		Laborer / Dri	ver	Dozer		
<ul> <li>SCS arrived on site at 7:00 am</li> <li>SCS continued excavation from STA 2+75 to STA 4+00 (using a laser level to achieve a 5% slope)</li> <li>18°x4" SDR 11 tee fused for GW-23 lateral. GW-23 header / lateral connection at STA 1+46</li> <li>SCS installed GW-23 lateral (54' of 4° SDR 11), 2° SDR 9 (airline) and 4° SDR 9 (condensate) in the trench. 6' risers for all pipe</li> <li>GW-22 branch saddle at STA 2+05</li> <li>Remote wellhead branch saddle at STA 3+01</li> <li>18° SDR 17 (header), 4° SDR 9 (condensate), 2° SDR 9 (airline) placed in trench</li> <li>4 sections of 20' CMP (80' total) installed on south slope. Cliff Koenig (HDR) clarified compaction requirement. A 95% Modified Proctor not required. A 6° crushed gravel bedding, compacted with bucket was installed</li> <li>SCS took elevations every 25 ft. Pipe met required slope.</li> <li>SCS took elevations at start and end of CMP. 18" header elevations not taken inside CMP</li> <li>SCS proceeded to backfill from STA 2+25 to STA 3+91</li> </ul>					,		
<ul> <li>SCS took elevations at start and end of CMP. 18" header elevations not taken inside CMP</li> <li>SCS proceeded to backfill from STA 2+25 to STA 3+91</li> </ul>	SCS continue  18"x4" SDR  SCS installed  GW-22 brand  Remote well!  18" SDR 17 (  4 sections of Proctor not remote to the sections of the section that the section is the section that the section that the section that the section is the section that the s	ed excavat 11 tee fuse 1 GW-23 la ch saddle a nead branc header), 4 20' CMP (i equired. A	ed for GW-23 ateral (54' of at STA 2+05 ch saddle at 5 " SDR 9 (cor 80' total) inst	lateral. GW-23 heade 4" SDR 11), 2" SDR 9 STA 3+01 Idensate), 2" SDR 9 (a alled on south slope. Company	er / lateral connection at STA (airline) and 4° SDR 9 (conde	1+46 ensate) in the trench. 6' risers for all pipe mpaction requirement. A 95% Modified	
SCS proceeded to backfill from STA 2+25 to STA 3+91			<u> </u>				
					elevations not taken inside CN	MP	
SOS leit tile site at 0:30 pm				2+25 to STA 3+91			
		site at 6:30	pm				
					_		
· · · · · · · · · · · · · · · · · · ·						-	



The second secon								
Project Name: CCSWDC Phase I LFG Construction - Sequence 1			uction - Sequence 1	Date: 3/12/2010	Day; Friday			
Project Owner: Sarasot	a County			Contractor: SCS Field Services				
HDR Project No. 096-1	24466			CQA: Carlos Restrepo (HDR)				
Weather Conditions:								
Temperature	u.		Weather		Precipitation			
Max.	Min.		Clear	Other				
66 F	61 F			Rain	3.66 inches			
Contractor's Employe	es / Title			Equipment Used				
Johnny Meier		Superintende	ent	Forklift -				
Steve Miller		Laborer / Dri	ver	2 X Excavator – Kobelco , Komatsu				
Brandon Swift		Laborer / Dri	ver	2 X Truck F-250				
Ray Perez		Laborer / Dri	ver	Flat bed F-450				
Joel Sanchez		Laborer / Dri	ver	Bobcat				
Fred Harlan		Laborer / Dri	ver	articulated dump truck				
Abel Sanchez		Laborer / Dri	ver	Dozer				
Work Performed:								
<ul> <li>SCS arrived of</li> </ul>	on site at 7	7:00 am						
Proceeded to help Veolia (landfill operator) fix a damaged downchute pipe on north slope.								
Stormwater fr	om rain la	st night erod	ed minimum backfill from	LCO-4N lateral. SCS brought addition	nal soil to backfill.			
SCS proceeds	ed to pick	up blown litte	er on south slope					
					•			
Due to rain last night and today, SCS will not continue operations								
		•			-			
The state of the s	p							
**************************************								
		······································						



Project Name: CCSWDC Phase I LFG Construction - Sequence 1			Date:3/13/2010	Day: Saturday			
Project Owner: Sarasot	a County		Contractor: SCS Field Services				
HDR Project No. 096-12	24466		CQA:Carlos Restrepo (HDR)	AND ACCES MEMORY			
Weather Conditions:							
Temperature		Weather		Precipitation			
Max.	Min.	Clear	Other	,			
69 F	58 F		Partly Cloudy	none			
Contractor's Employe	es / Title		Equipment Used				
Johnny Meier	Superinten	dent	Forklift	Forklift			
Steve Miller	Laborer / D	Oriver	2 X Excavator Kobelco , Komatsu				
Brandon Swift	Laborer / [	Oriver	2 X Truck F-250				
Ray Perez	Laborer / D	)river	Flat bed F-450				
Joel Sanchez	Laborer / D	river	Bobcat				
Fred Haitan	Laborer / D	river	articulated dump truck				
Abel Sanchez	Laborer / D	river	Dozer				
	- '		,				
Work Performed:							
SCS arrived of	on site at 7:00 am						
SCS installed	branch saddles for 0	GW-23 and remote wellhed	ad	NAT AND ST			
SCS proceed	ed to measure water	depths inside all GWs	And the second s				
Due to rain y	esterday, SCS will i	not continue operations					
Walter and the state of the sta							
	,						
				TV-reconstruction of the second secon			
				,			
				AAAAA			
			- April de la company de la co	AR AMARIAN PROMETO A CONTRACTOR			
			to design and the second secon				
<u></u>							





Project Name: CCSWDC Phase I LFG Construction - Sequence 1				uction - Sequence 1	Date: 3/15/2010	Day:Monday	
Project O	wner: Saraso	ta County	•		Contractor: SCS Field Ser	vices	
HDR Proj	ject No. 096-1	24466			CQA: Carlos Restrepo (HDR)		
Weather	Conditions:						
Temperat	ture			Weather		Precipitation	
Max.	Max. Min.			Clear	Other		
68 F	52 F			-	Partly Cloudy	none	
			_				
Contract	or's Employe	es / Title			Equipment Used		
Jhonny Meier Superintendent			ent	Forklift			
Joel Sand	chez		Laborer / Dr	iver	2 X Excavator – Kobalko ,	Komatsu	
Steve Mill	ller		Laborer / Dr	iver	2 X Truck F-250		
Ray Pere	ez		Laborer / Dr	iver	Flat bed F-450		
					Bobcat		
					2 X articulated dump truck	KS .	
					Dozer	<del></del>	
Work Per	rformed:						
•	SCS arrived SCS continue slope) 18° SDR 17 ( 4" SDR 11bre Header pipe to existing do	(header), 4 anch saddl will have a ownchute	" SDR 9 (colle installed at 2' of cover a	ndensate), 2" SDR 9 (a t STA 4+42 for GW-21 at HP (approximately 6	irline) placed in trench  HDR approved change either side of GW-21). This a	-25 (using a laser level to achieve a 5% area is a low spot on bech for water to drain	
•	SCS arrived SCS continue slope) 18" SDR 17 ( 4" SDR 11bra Header pipe to existing do SCS continue	(header), 4 anch saddl will have a ownchute	" SDR 9 (colle installed at 2' of cover a	ndensate), 2" SDR 9 (at STA 4+42 for GW-21 at HP (approximately 6 lope affected by rain in	irline) placed in trench  HDR approved change either side of GW-21). This a	area is a low spot on bech for water to drain	
•	SCS arrived SCS continue slope) 18° SDR 17 ( 4" SDR 11bra Header pipe to existing do SCS continue  Following sur  ✓ Su  ✓ 3 x	(header), 4 anch saddl will have a ownchute ues regrad mp and pits mp 3 a FM valve	" SDR 9 (con le installed a 2' of cover a ling north sl s delivered –	ndensate), 2" SDR 9 (at STA 4+42 for GW-21 at HP (approximately 6 dope affected by rain left). HDR verified all dimensions (32.5)	irline) placed in trench  HDR approved change either side of GW-21). This a ast week (1 person x 7 hrs) nsions:	area is a low spot on bech for water to drain	
•	SCS arrived SCS continue slope)  18" SDR 17 ( 4" SDR 11bra Header pipe to existing do SCS continue  SCS continue  SU  3 x  18"	(header), 4 anch saddl will have a ewnchute les regrad mp and pit mp 3 FM valve " x 24" x 30	" SDR 9 (con le installed at 2' of cover a ling north sl s delivered – pit (48" SDR	indensate), 2" SDR 9 (at STA 4+42 for GW-21 at HP (approximately 6 dope affected by rain 1 HDR verified all dimensa 32.5)	irline) placed in trench  HDR approved change either side of GW-21). This a ast week (1 person x 7 hrs) nsions:	area is a low spot on bech for water to drain	
•	SCS arrived slope)  18° SDR 17 ( 4" SDR 11bra Header pipe to existing do  SCS continuation of SCS continua	(header), 4 anch saddl will have a ownchute mp and pits mp 3 a FM valve " x 24" x 30 as a 1% slo	" SDR 9 (con le installed a 2' of cover a ling north sl s delivered – pit (48" SDR 0" Wye	ndensate), 2" SDR 9 (at STA 4+42 for GW-21 at HP (approximately 6 dope affected by rain in HDR verified all dimensately 6 dope affected by rai	irline) placed in trench  HDR approved change either side of GW-21). This a  ast week (1 person x 7 hrs) nsions:  utheast corner instead of Kr for a 2.6% and 1%. SCS will	nockout Pot – Detail 1 / Sheet D-07)	
•	SCS arrived SCS continue slope)  18" SDR 17 ( 4" SDR 11bra Header pipe to existing do SCS continue SCS continue SCS continue 18" Sump # 3 has transition si	(header), 4 anch saddl will have a exempland pite mp and pite mp 3 FM valve " x 24" x 30 as a 1% slo	" SDR 9 (con le installed at 2' of cover a ling north sl s delivered – pit (48" SDR 0" Wye ope for both 2.6% to 1%	ndensate), 2" SDR 9 (at STA 4+42 for GW-21 at HP (approximately 6 dope affected by rain in HDR verified all dimensately 6 dope affected by rai	irline) placed in trench  HDR approved change either side of GW-21). This a  ast week (1 person x 7 hrs) nsions:  utheast corner instead of Kr for a 2.6% and 1%. SCS will	area is a low spot on bech for water to drain	
•	SCS arrived SCS continue slope)  18" SDR 17 ( 4" SDR 11bra Header pipe to existing do SCS continue SCS continue SCS continue  18" Sump # 3 has transition slopes	(header), 4 anch saddl will have a ownchute mp and pit mp 3 a FM valve " x 24" x 30 as a 1% slo	" SDR 9 (con le installed and 2' of cover and	ndensate), 2" SDR 9 (at STA 4+42 for GW-21 at HP (approximately 6 dope affected by rain in HDR verified all dimensions at 32.5)  (To be installed at so a stubs. It is designed to meet end of 30" here	irline) placed in trench  HDR approved change either side of GW-21). This a  ast week (1 person x 7 hrs) nsions:  utheast corner instead of Kr for a 2.6% and 1%. SCS will	nockout Pot – Detail 1 / Sheet D-07)	
•	SCS arrived slope)  18" SDR 17 ( 4" SDR 11bra Header pipe to existing do SCS continut  Following sur  ✓ Su  ✓ 3 x  ✓ 18"  Sump # 3 had transition slowtside of wasting slow side side side side.	cheader), 4 anch saddl will have a bwnchute les regrad mp and pits mp 3 s FM valve " x 24" x 30 lope from vaste limit	" SDR 9 (con le installed and 2' of cover a ling north sl s delivered — pit (48" SDR D" Wye ope for both 2.6% to 1% s.	ndensate), 2" SDR 9 (at STA 4+42 for GW-21 at HP (approximately 6 dope affected by rain in HDR verified all dimensately 6 dope affected by rai	irline) placed in trench  HDR approved change either side of GW-21). This a ast week (1 person x 7 hrs) nsions:  utheast corner instead of Ki for a 2.6% and 1%. SCS will eader to Sump # 3. 1% minir	nockout Pot – Detail 1 / Sheet D-07)	



During Manager COCKED	O Dh	U. F.O. O	unter Consumer A	Date: 3/16/2010	Day:Tuesday	
Project Name: CCSWD		LFG Constr	uction - Sequence 1			
Project Owner: Sarasot				Contractor: SCS Field Services	,	
HDR Project No. 096-13	24466			CQA: Carlos Restrepo (HDR)		
Weather Conditions:					and the second s	
Temperature			Weather		Precipitation	
Max.	Min.		Clear	Other		
67 ° F	52 ° F			Partly Cloudy	none	
			· · · · · · · · · · · · · · · · · · ·	F	V V	
Contractor's Employe	es / Title	1		Equipment Used		
Jhonny Meier		Superintend	ent	Forklift	*****	
Steve Miller	be conf	Laborer / Dri	ver	3 X Excavator – Kobelco , Komatsu		
Brandon Swift Laborer / Driver			ver	3 X Truck F-250		
Fred Harlan		Laborer / Dri	ver	Flat bed F-450	AN A PART PERSON NAMED AND A PART OF THE P	
Ray Perez		Laborer / Dri	ver	Bobcet		
Joel Sanchez		Laborer / Dri	ver	Articulated dump trucks		
Chris Boggs		Laborer / Dri	ver (2 <sup>nd</sup> crew)	Dozer		
Dustin Adams		Laborer / Dri	ver (2 <sup>nd</sup> crew)			
Josh Adams		Laborer / Dri	ver (2 <sup>nd</sup> crew)			
Work Performed:		· · · · · · · · · · · · · · · · · · ·				
SCS arrived co	n site at 7	7:00 am				
SCS continu	es regrad	ling north si	ope affected by rain las	t week (all personel x 10 hrs)		
SCS proceed	ed to insta	all lateral for r	emote wellhead to LCO-	2N (93' + 6' riser). Connections to LC	Os at a later date	
2 <sup>nd</sup> crew arrive	ed today.	Began fusing	24" SDR 17 (header) fo	r stringerв. A max. of 250 LF stringe	rs used.	
Total 24" SDF	17 pipe	fused today -	500 LF			
SCS took elev	ations ev	ery 25 ft for L	.CO-2N lateral. Pipe met	required slope. Proceeded to backfill	trench	
				The state of the s	The state of the s	
		at out				
Dorden De	Mf	- 40 4- 5 11	- 1			
<del></del>	***************************************		owing was addressed:	isli be allowed after March 24, 2040	roganianiania.	
	<del></del>	······································	n north slope before sode	vill be allowed after March 31, 2010.		
	<del></del> :			quired on north slope between Cells	3-5	
	THU		w balantate and 19	dates on thous sobe persent costs	-	
	<del></del>					
			The state of the s			
				- Internation		



Project Name: CCSWDC Phase I LFG Construction - Sequence 1	Date: 3/17/2010	Day:Wednesday	
Project Owner: Sarasota County	Contractor: SCS Field Services		
HDR Project No. 096-124466	CQA: Carlos Restrepo (HDR)		
Weather Conditions:			
Temperature Weather		Precipitation	

Tomperatoro		TVOAtilet		1 recipitation	
Мах.	Min.	Clear	Other		
67 F	52 F		Overcast	none	
Contractor's Employees / Title			Equipment Used		
Jhonny Meier	Superintend	ent	Forklift		

s / Title	Equipment Used		
Superintendent	Forklift		
Laborer / Driver	3 X Excavator – Kobalko , Komatsu		
Laborer / Driver	3 X Truck F-250		
Laborer / Driver	Flat bed F-450		
Laborer / Driver	Bobcat		
Laborer / Driver	2 X articulated dump trucks		
Laborer / Driver (2 <sup>nd</sup> crew)	Dozer		
Laborer / Driver (2 <sup>nd</sup> crew)			
Laborer / Driver (2 <sup>nd</sup> crew)			
	_		
	Superintendent  Laborer / Driver  2 <sup>nd</sup> crew)  Laborer / Driver (2 <sup>nd</sup> crew)		

#### Work Performed:

- SCS arrived on site at 7:00 am
- SCS continues regrading north slope affected by rain last week (1 person x 4 hrs)
- 2<sup>nd</sup> crew constinues fusing 24" SDR 17 for stringers. A max. of 250 LF stringers used.
- Total 24" SDR 17 pipe fused today 750 LF
- SCS proceeded to install wellheads on GW-1 to GW-10 and 3 remote wellheads (LCO-2N, LCO-4N, LCO-5N)
- Other wellheads (LCO-1N and LCO-3N) to be installed after March 31, 2010
- 1" Airline / Condensate ball valves to be installed on risers at each well at a later date. All GWs will have a reducer 2" x 1" for airline and a 4"x1" for condensate, a 1" ball valve for each line, and a quick disconnect.
- SCS proceeded to lift airline valve pit 6" off the ground and installed 2' of hydrated bentonite.
- HDR / SCS met with Ed Russ (County) to estimate sod to be installed between U-2 and U-3 (Cells 3-5) on North Slope. SCS will
  install 40,352 SF of sod in this area. SCS is still responsible to install sod in remaining disturbed areas on north slope and all other
  areas disturbed by construction activities
- SCS left the site at 6:00 pm
- It was clarified to SCS that all GWs will have a ¾" NPTplug for water level access instead of a 1" labcock as shown on Detail 3 / Sheet D-07. SCS to make changes at a later date







Project Name: CC	Project Name: CCSWDC Phase I LFG Construction - Sequence 1				Day:Thursday	
Project Owner: Sa	rasota Cour	ity		Contractor: SCS Field Services		
HDR Project No. 0	96-124466			CQA: Don Whiting (HDR)		
Weather Condition	ns:					
Temperature			Weather		Precipitation .	
Max.	Min.		Clear	Other		
65 F	55 F		Sunny		None	
•			4000	•		
Contractor's Emp	loyees / Til	le		Equipment Used		
Johnny Meler		Superintend	ent	Forklift		
Steve Miller		Laborer / Dr	lver	3 X Excavator - Kobelco ,	Komatsu	
Brandon Swift		Laborer / Dr	iver	3 X Truck F-250	•	
Ray Perez		Laborer / Dr	iver	Flat bed F-450		
Joel Sanchez		Laborer / Dr	iver	Bobcat		
Fred Harlan		Laborer / Dr	iver	2 X articulated dump truc	ks	
Abel Sanchez		Laborer / Dr	iver	Dozer		
Chris Boggs		Laborer / Dr	iver (2 <sup>nd</sup> crew)			
Dustin Adams		Laborer / Dr	iver (2 <sup>nd</sup> crew)			
Josh Adams		Laborer / Dr	iver (2 <sup>nd</sup> crew)			
Work Performed:						
SCS arr	ved on site	at 7:00 am.				
Excavat	ed trench fo	18" header on	south slope from Sta. 8	5+25+/- (east of GW-21) head	ding east to Sta. 7+35+/	
Three (3	) man crew	fusing 30" HDP	E pipe in yard just sout	h of Phase I perimeter road.		
	<del></del>		Sta. 5+91 for lateral to			
	<del></del>		······		om Sta. 5+25+/- to Sta. 7+30+/	
					Ir line at Sta. 5+91 +/- for laterals to GW20	
	· · · · · · · · · · · · · · · · · · ·	f 30" HDPE pip	***************************************	SUS IER Trench open at Sta.	5+91 to install 6", 4" & 2" laterals to GW20	
	the site at 5		ani yaiu.			
200 1011		p			White such as the supplied of	
			-			
				W		
		******				



Project Name: CCSWI	OC Phase	I LFG Constr	uction - Sequence 1	Date: 3/19/2010	Day; Friday	
Project Owner: Saraso	ta County			Contractor: SCS Field Services		
HDR Project No. 096-1	24466			CQA: Carlos Restrepo (HDR)		
Weather Conditions:						
Temperature			Weather	Precipitation		
Max.	Min.		Clear	Other		
70F	52 F			Partly Cloudy	none	
Contractor's Employe	es / Title			Equipment Used		
Jhonny Meier Superintendent			ent	Forklift		
Steve Miller		Laborer / Dr	iver	3 X Excavator – Kobalko , Komatsu		
Brandon Swift		Laborer / Dr	iver	32 X Truck F-250	•	
Ray Perez		Laborer / Dr	iver	Flat bed F-450		
Joel Sanchez		Laborer / Dr	iver	Bobcat		
Fred Harlan		Laborer / Dr	iver	2 X articulated dump trucks		
Abel Sanchez		Laborer / Dri	ver	Dozer		
Chris Boggs		Laborer / Dri	iver (2 <sup>nd</sup> crew)			
Dustin Adams		Laborer / Dri	iver (2 <sup>nd</sup> crew)			
Josh Adams		Laborer / Dr	iver (2 <sup>nd</sup> crew)		·	
		1				
		A-10-1				
Work Performed:						
SCS arrived	on site at	7:00 am				
SCS continue	ed excava	tion from STA	7+25 to STA 9+00 (us	sing a laser level to achieve a 5% slop	e)	
• 18" SDR 17 (			······································			
		W-1	<del></del>	header connection at STA 7+33		
			/ header connection at !	The state of the s		
				of 250 LF stringers used.		
Total 30" SDi     18" welding of				not have time to place 4" SDR 9 (cond	Innected and 2º CDD Q (alrina)	
				ler. No trash was visible. Average soil		
		···	e met required slope	101,110 1101		
SCS left the s						
		and the second s				



Project Name: CCSWDC Phase I LFG Construction - Sequence 1			uction - Sequence 1	Date:320/2010	Day: Saturday	
Project Owner: Sarasot	a County			Contractor: SCS Field Services		
HDR Project No. 096-12	24466			CQA:Carlos Restrepo (HDR)		
Weather Conditions:						
Temperature			Weather		Precipitation	
Max.	Min. Clear			Other		
74 F	58 F			Partly Cloudy	none	
					`	
Contractor's Employe	es / Title	,		Equipment Used		
Johnny Meier		Superintend	ent	Forklift		
Steve Miller		Laborer / Dri	ver	3 X Excavator - Kobelco , Komatsu		
Brandon Swift		Laborer / Dri	ver	3 X Truck F-250		
Ray Perez		Laborer / Dri	ver`	Flat bed F-450		
Joel Sanchez		Laborer / Dri	ver	Bobcat		
Fred Harlan		Laborer / Dri	ver	articulated dump truck		
Abel Sanchez		Laborer / Dri	ver	Dozer		
Chris Boggs		Laborer / Dri	ver (2 <sup>nd</sup> crew)			
Dustin Adams		Laborer / Dri	ver (2 <sup>nd</sup> crew)			
Josh Adams		Laborer / Dri	ver (2 <sup>nd</sup> crew)		•	
Work Performed:						
SCS arrived or	n site at 7	7:00 am				
2 <sup>nd</sup> crew proce	eded to n	nove 24" stri	ngers to bench on east sl	ope		
SCS installed	GW-20 la	ateral (20' of	6" SDR 11), 2" SDR 9 (ai	irline) and 4" SDR 9 (condensate) in t	he trench. 8' risers for all pipes	
***************************************			R 11, 2" SDR 9, and 4" S		The second secon	
				Irline) and 4" SDR 9 (condensate) in t	he trench. B' risers for all pipes	
	<del></del>		R 11, 2" SDR 9, and 4" S		Million W	
			wellhead at STA 8+25.	(o nser - 4" SDK 11)		
	*		7+25 to STA 9+00			
				en trench at a later date to connect 18	" header to 24" / 30" header	
SCS left the si						
		4				
5 - 188 (1974)		4				
	<del></del>				Market of Market Market and the second of the Amelian School and the second of the sec	
					The second section of the sect	



Project Name: CCSWD	C Phase	I LFG Constr	uction - Sequence 1	Date: 3/22/2010	Day:Monday	
Project Owner: Sarason	ta County			Contractor: SCS Field Services		
HDR Project No. 096-1	24466	,,,		CQA: Carlos Restrepo (HDR)		
Weather Conditions:		100		<u> </u>		
Temperature			Weather		Precipitation	
Max.	Min.		Clear	Other		
.67 F	56 F			Partly Cloudy	none	
				Lan.	_	
Contractor's Employe	es / Title			Equipment Used	-	
Johnny Meler		Superintend	ent			
Steve Miller	7311	Laborer / Dri	ver			
Brandon Swift Laborer / Driver			ver .			
Fred Harlan		Laborer / Dri	ver			
Ray Perez		Laborer / Dri	ver			
Joel Sanchez		Laborer / Dri	ver			
Chris Boggs		Laborer / Dri	ver (2 <sup>nd</sup> crew)			
Dustin Adams		Laborer / Dri	ver (2 <sup>nd</sup> crew)	·		
Josh Adams		Laborer / Dri	ver (2 <sup>nd</sup> crew)			
	ulla estali					
Work Performed:						
SCS arrived of	on site at	7:00 am				
Due to rain y	resterday	Sunday Mai	rch 21, 2010 (1.17 inch	es), SCS will not work today.		
Minor erosion	damage	on north and	south slopes. SCS will I	repair when conditions improve		
SCS left the s	site at 8:30	) am				
			M. W. 14.4			
					· ·	
			Manual Ass.			
Market Commencer						
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	hallahar			and the state of t		



<i>e</i>						
Project Name: CCSWI	OC Phase I L	FG Constr	uction - Sequence 1	Date: 3/23/2010	Day:Tuesday	
Project Owner: Saraso	ta County			Contractor: SCS Field Services		
HDR Project No. 096-1	124466			CQA: Carlos Restrepo (HDR)		
Weather Conditions:						
Temperature			Weather		Precipitation	
Мах.	Min.		Clear	Other		
70 F	52 F			Partly Cloudy	none	
		, , , , , , , , , , , , , , , , , , , ,				
Contractor's Employe	es / Title			Equipment Used		
Jhonny Meier	s	Superintend	ent			
Steve Miller	L	aborer / Dr	iver	3 X Excavator - Kobelco , Kom	alsu	
Brandon Swift	L	aborer / Dr	iver	3 X Truck F-250		
Fred Harian	L	aborer / Dr	ver	Flat bed F-450		
Rey Perez	L	aborer / Dr	lver	2 x articulated dump trucks		
Joel Sanchez	L	aborer / Dr	iver	Dozer		
Chris Boggs	L	aborer / Dr	ver (2 <sup>nd</sup> crew)		W	
Dustin Adams	L	aborer / Dr	ver (2 <sup>nd</sup> crew) .		, <u>, , , , , , , , , , , , , , , , , , </u>	
Josh Adams	L	aborer / Dr	iver (2 <sup>nd</sup> crew)		0.5000000000000000000000000000000000000	
		***************************************		4, 7 - 100 -		
Work Performed:		······································				
SCS arrived	on site at 7:	00 am				
SCS began	excavation a	it Sump # 2	(south slope) heading	west to GW-26.	Maria 444,	
2 <sup>rd</sup> crew beg	an excavatio	on at U-1 to	Install 24" SDR 17 hea	der on east slope.		
<ul> <li>HDR reques</li> </ul>	ted SCS to o	clarify plan	on working two slopes a	at the same time without additional	equipment. SCS proceeded to stop	
excavation	on south stop	e and mov	e all equipment to east	slope. Total trench excavated on s	outh slope (25 ft)	
Ed Russ (Co	ounty) agreed	d on SCS's	plan and allowed SCS	to leave the trench open as long a	s any visible trash is removed	
SCS expose	d 18" elbow	- east of U	-1 (flanged) and will co	nnect the 18" x 24" reducer (flange	d)	
SCS excava	ted from U-1	(STA 0+0	0) to STA 1+00 (using a	laser level to achieve a 5% slope		
• 24° SDR 17	(header), 4"	SDR 9 (co	ndensate), 2" SDR 9 (ai	rline) placed in trench		
	Hallet		tions are permitted o	n east slope only	•	
			e met required slope	. 20	_	
			om STA 0+00 to STA 0-		to blook bonder for all tradius	
			uon (at U-1) open in or	der to remove aluminum plate used	i to biçok neader içir air testing.	
SCS left the	SIE BI 0.00	hill				
◆ During Progr	ress Meeting	#9, the fol	lowing was addressed:		All the transfer of the second	
				move to 18" header installation on	south slope	
				be between Cells 3-5. SCS has be	The state of the s	
·						



## Daily Field Report (Continued)

Date: 3/2	3/2010 Tuesday
	complete this requirement as soon as possible. SCS is still responsible for installing sod at any other areas disturbed due to
	construction activities.
•	HDR and SCS to coordinate location of box culvert and ERCP at the south perimeter swale of Phase I. This ERCP may affect the
	placement of the 30" header coming out of Phase I.
•	SCS has been informed that several section of silt fence need repair. SCS agreed and wil repair
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Project Name: CCSWDC Phase I LFG Construction - Sequence 1				Date: 3/24/2010	Day:Wednesday	
Project Owner: Sar	asota Count	у		Contractor: SCS Field Services  CQA: Carlos Restrepo (HDR)		
HDR Project No. 0	96-124466					
Weather Conditio	ns:				-	
Temperature			Weather		Precipitation	
Max.	Min.		Clear	Other		
74 F	58 F			Partly Cludy	none	
Contractor's Emp	loyees / Title	9		Equipment Used		
Jhonny Meier		Superintend	ent			
Steve Miller		Laborer / Dr	iver	3 X Excavator – Kobalk	o , Komatsu	
Brandon Swift		Laborer / Dr	iver	3 X Truck F-250		
Fred Harlan	_	Laborer / Dr	iver	Flat bed F-450		
Joel Sanchez	_	Laborer / Dr	iver	Bobcat		
Ray Perez		Laborer / Dr	iver	1 X articulated dump tr	ucks	
Chris Boggs		Laborer / Dr	iver (2 <sup>nd</sup> crew)	Dozer		
Dustin Adams	_	Laborer / Dr	iver (2 <sup>nd</sup> crew)			
Josh Adams		Laborer / Dr	iver (2 <sup>nd</sup> crew)			
Work Performed:						
SCS arri	ved on site a	t 7:00 am				
SCS cor	tinued excav	ation on east	slope from STA 1+00 to	STA 2+75 (using a laser	level to achieve a 5% slope)	
Pipe cre	w began fusi	ng 4" SDR 11	/ 4" SDR 9 / 2" SDR 9 fo	or GW-11and GW-12 later	als	
• 24" SDR	17 (header)	, 4" SDR 9 (co	ndensate), 2" SDR 9 (a	irline) placed in trench		
• 4" branc	h saddlle for	GW-11 lateral	installed at STA 1+32			
				(airline) and 4" SDR 9 (con	ndensate) in the trench. 8' risers for all pipes	
· — —		_ <u></u>	be met required slope			
			om STA 0+50 to STA 1-	+75 		
- 303 1811	the site at 6:					
			<del></del>			





Project Name: CCSWDC Phase I LFG Construction - Sequence 1				Date: 3/25/2010	Day:Thursday			
Project Owner: Sarasota County				Contractor: SCS Field Services				
HDR Project No. 096-124466				CQA: Carlos Restrepo (HDR)				
Weather Conditi	ons:	_						
Temperature			Weather		Precipitation			
Max.	Min.		Clear	Other				
76 F	67 F			Partly Cloudy	none			
_								
ontractor's Em	ployees / Title	_		Equipment Used				
Johnny Meier		Superintendent						
Steve Miller		Laborer / Driver		3 X Excavator – Kobelco , Komatsu				
Brandon Swift		Laborer / Driver		3 X Truck F-250				
Ray Perez		Laborer / Driver		Flat bed F-450				
Joel Sanchez		Laborer / Driver		Bobcat				
Fred Harlan		Laborer / Driver		1 x articulated dump trucks				
Abel Sanchez		Laborer / Driver		Dozer				
Chris Boggs		Laborer / Driver (2 <sup>nd</sup> crew)						
Dustin Adams		Laborer / Driver (2 <sup>nd</sup> crew)						
Josh Adams		Laborer / Driver (2 <sup>nd</sup> crew)						
			_					
Work Performed	d:							
• SCS a	rrived on site at	7:00 am.						
• SCS o	SCS continued excavation on east slope from STA 2+75 to STA 4+50 (using a laser level to achieve a 5% slope)							
• 24" SD	24" SDR 17 (header), 4" SDR 9 (condensate), 2" SDR 9 (airline) placed in trench							
Sod co	Sod company installing sod on north slope damaged GW-4 landtec wellhead while backing up with skidster. SCS proceeded to							
	repair GW-4. No other damage.							
• SCS p	SCS proceeded to regrade eroded areas on south slope and backfilled the 25 ft of trench west of Sump #2. (1 person x 4 hrs)							
	SCS has not repaired sllt fence around Phase I							
	HDR met with Lois / Ed Russ (County). County concerned that SCS has a lot of open trench, has not sodded the north slope, has not repaired silt fence before the rain tonight or tomorrow morning. HDR informed County that SCS will backfill open trench on							
					ny trat 303 will backfill open trench on			
	east slope (leaving the end of trench open for the stringer) before the end of day  HDR also informed County that SCS is aware of sodding requirements, silt repair. HDR has no control of SCS's construction and							
	HDR also informed County that SCS is aware of sodding requirements, silt repair. HDR has no control of SCS's construction they are ultimately responsible for any erosion repairs.							
	4" branch saddlle for GW-12 lateral installed at STA 2+53							
<del></del>	SCS installed GW-12 lateral (50' of 4" SDR 11), 2" SDR 9 (airline) and 4" SDR 9 (condensate) in the trench. 8' risers for all pipes							



SCS took elevations every 25 ft. Pipe met required slope
SCS proceeded to backfill trench from STA 1+75 to STA 3+75

SCS left the site at 6:00 pm



				1						
Project Name: CCSWD	_	LFG Constr	uction - Sequence 1	Date: 3/26/2010	Day: Friday					
Project Owner: Sarasot	a County		_	Contractor: SCS Field Services						
HDR Project No. 096-12	24466			CQA: Carlos Restrepo (HDR)						
Weather Conditions:					6					
Temperature		Weather			Precipitation					
lax. Min.			Clear	Other						
71 F	54 F			Cloudy	0.31 inches					
Contractor's Employe	es / Title			Equipment Used						
Jhonny Meier		Superintendent								
Steve Miller		Laborer / Driver								
Brandon Swift		Laborer / Driver								
Ray Perez		Laborer / Driver								
Joel Sanchez		Laborer / Driver								
Fred Harlan		Laborer / Driver								
Abel Sarichez		Laborer / Driver								
Chris Boggs		Laborer / Driver (2 <sup>nd</sup> crew)								
Dustin Adams		Laborer / Driver (2 <sup>nd</sup> crew)			•					
Josh Adams		Laborer / Driver (2 <sup>nd</sup> crew)								
			_							
	_		_							
Work Performed:										
SCS arrived of	on site at 7	7:00 am								
Due to rain I	ast night,	SCS is not	working today							
SCS left the s	site at 8:30	) am								
HDR informe	HDR informed SCS again that silt fence needs to be repaired, pick up blown litter. SCS said that will repair / clean tomorrow									
	Sumps # 4 and # 5 arrived this week. HDR check dimensions									
HDR / County / Veolia / SCS met to discuss erosion and drainage issues at Phase I.										
Refer to mee	eting min	utes for add	itional information							
			-							

Meeting Minutes March 26, 2010

#### Attendees:

Ed Russ (ER), Sarasota County
Dan McAllister (DM), Sarasota County
Jim (JS), Sarasota County
Tim (T), Veoila
Richard Siemering (RS), HDR
Carlos Restrepo (CR), HDR
Johnny Meier (JM), SCS Field Services (via phone)

#### I. Introduction

This meeting has been scheduled to address erosion and sediment transportation at Phase I

#### II. Erosion Control

RS stated that sediment transportation on all slopes, silt fence built up, and bench regrading at Phase I are required to be repaired / maintained through out the remaining of the construction project. Veolia's daily landfill operations and SCS's landfill gas construction operations must be coordinated in order to facilitate compliance with FDEP and all other regulatory requirements. Veolia and SCS must coordinate efforts. Erosion is part of any construction operation but SCS must be proactive in maintaining disturbed areas.

RS stated that according to SCS, the silt built up at the bench is due to erosion from the upper tier and due to the fact that Veolia has removed their silt fence. This excess silt has moved to SCS's area.

RS stated that according to Veolia, SCS has not properly graded the bench, therefore, silt is overtopping the bench into SCS's area.

- (T) stated that SCS is cutting the bench down, therefore, Veolia will loose the 5% grade they had already achieved at the bench. The additional silt transported to the bench due to erosion on upper tier is not to be used for backfilling operations on SCS project. Veolia constantly uses this siltl to cover / repair slopes on upper tier.
- (T) stated that Veolia has no other issues and is not aware of SCS's contract agreement with the County and / or SCS's responsibilities. (T) stated that Veolia is responsible for the transported silt to the bench and has no problem fixing the bench but it must be placed into design grades before Veolia does any repairs.

JM stated that SCS is responsible to place bench into design grades. JM does not believe bench was at design grade before moving his equipment to Phase I.

- (T) stated that if SCS fixes the bench, Veolia has no problem in removing silt accumulating in bench after a rain event.
- (T) stated again that silt on bench should not be used as backfill for SCS's project. (T) stated that SCS was cutting down 3 ft of silt at the bench and it was Veolia's backfill. Veolia takes full responsibility on anything that happens on their side

JM stated again that bench was not at 5% but was trying to maintain it and moved some of the silt up the slope

(T ) asked JM if SCS will put bench o design grades

JM agreed on putting bench to design grades after construction completion

RS stated that SCS and Veolia must work together on resolving drainage and erosion problems. SCS needs to coordinate any work done at the landfill with Veolia and must leave the bench to design grades. SCS needs to be proactive and remove any visible trash, blown litter, and repair /maintain silt fencea

JM stated that SCS will repair / maintain silt fence, remove trash, pick up blown litter

(T) stated that north bench has not been graded by SCS and if it rains, it will affect the recently placed sod

RS stated that SCS must regrade north slope bench as soon as possible

JM agreed.

ER asked SCS if they have selected a sod company to start sodding the northwest portion SCS is responsible for. ER stated that the County has already completed their part for sodding

- (J ) stated that he believes SCS has no knowledge of the importance of having the benches graded
- (T) stated that Veolia had reached design grades on east bench about 1 year ago and did additional work last week. Therefore Veolia had the benches per design

RS stated that bench grading will be addressed again at the weekly progress meeting next week and that Veolia needs to coordinate with County and HDR to address this issue and be able to come to a final agreement.



Project Name: CCSWDC Phase I LFG Construction - Sequence 1				Date:3/27/2010	Day: Saturday	
Project Owner: Saraso	ta County			Contractor: SCS Field Services		
HDR Project No. 096-124466				CQA:Carlos Restrepo (HDR)		
Weather Conditions:						
Temperature			Weather		Precipitation	
Max.	Min.		Clear	Other		
79 F	63 F			Partly Cloudy	none	
Contractor's Employe	ees / Title			Equipment Used		
Brandon Swift		Laborer / Dri	ver			
Ray Perez		Laborer / Dri	ver	3 X Excavator – Kobelco , Komatsu		
Joel Sanchez		Laborer / Ori	ver	3 X Truck F-250		
Fred Harlan		Laborer / Dri	ver			
Abel Sanchez		Laborer / Dri	ver			
Chris Boggs		Laborer / Dri	ver (2 <sup>nd</sup> crew)			
Dustin Adams		Laborer / Driver (2 <sup>nd</sup> crew)				
Josh Adams		Laborer / Driver (2 <sup>nd</sup> crew)				
Work Performed:						
SCS arrived	on site at	7:00 am				
SCS installe	d GW-13	ateral (15' of	4" SDR 11), 2" SDR 9 (a	airline) and 4" SDR 9 (condensate) in	the trench. 8' risers for all pipes	
GW-13 Insta	illed as Typ	oe 1. 24" head	ter not close enough to	install as Type 2 per documents. HDF	l approved change	
SCS decide	d not to co	ntinue excava	tion today due to expec	ted rain on Sunday March 28, 2010		
		kfill GW-13 tr	ench			
SCS left the	site at 12:	00 bw				
					The second secon	
errorrorbleter og en et 1949 var en en 1940 menne en en 1940 – en en et 1940 – en en et 1940 men en en et 1940			- Hillian III -			
		.h				



Project Name: CCSWD	C Phase I	LFG Constr	uction - Sequence 1	Date: 3/29/2010	Day:Monday
Project Owner: Sarasot	a County			Contractor: SCS Field Services	
HDR Project No. 096-1	24466			CQA: Carlos Restrepo (HDR)	
Weather Conditions:					
Temperature Weather					Precipitation
Max.	Min.		Clear	Other	
67 F	54 F			Overcast / Rain (AM)	
Contractor's Employe	es / Title			Equipment Used	
Jhonny Meier		Superintend	ent		
Steve Miller		Laborer / Dri	iver		
Brandon Swift		Laborer / Dri	iver		
Ray Perez		Laborer / Dri	iver		
Joel Sanchez		Laborer / Dri	iver		
Fred Harlan		Laborer / Dri	iver		
Abel Sanchez	_	Laborer / Driver		·	·
Chris Boggs		Laborer / Driver (2 <sup>nd</sup> crew)		,	
Dustin Adams		Laborer / Driver (2 <sup>nd</sup> crew)			
Josh Adams		Laborer / Dri	iver (2 <sup>nd</sup> crew)		
				•	
Work Performed:				_	·
• Due to rain o	n Sunday	March 28, 20	010 and early morning t	oday, SCS did not work.	
HDR informer	ed SCS th	at silt fence	around Phase I was n	ot repaired last week and it should	be a priority for the next
working day	. Several	areas are er	roded and must be rep	aired as soon as possible.	
					· .
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			<del>-</del>		





Project Name: CCSWDC Phase I LFG Construction - Sequence 1				uction - Sequence 1	Date: 3/30/2010	Day:Tuesday	
Project Owner: Sarasota County					Contractor: SCS Field Services		
HDR Project No. 096-124466					CQA: Carlos Restrepo	(HDR)	
Veather	Conditions:						
Tempera	ture			Weather		Precipitation	
Max.		Min.		Clear	Other		
71 F		53 F		Sunny		none	
Contrac	or's Employe	es / Title			Equipment Used		
honny N	leier		Superintend	ent			
Brandon	Swift		Laborer / Dr	iver	2 X Excavator Kobelco	o , Komatsu	
Ray Pere	ez		Laborer / Dr	iver	2 X Truck F-250	<u> </u>	
Joel San	chez		Laborer / Dr	iver			
Fred Har	lan		Laborer / Dr	iver			
Abel Sar	chez	_	Laborer / Dr	iver			
Work Pe	rformed:						
•	SCS arrived	on site at	7:00 am				
•	SCS proceed	led to repa	air silt fence o	on south slope (7 am – 2	2 pm) then north slope (2 p	om – 6 pm)	
•	FD & C (Sub	contractor	r) on site to la	yout compressor pad e	ast of Flare Station pad ( 1	0' x 10' and 4' offset from Flare Pad)	
•	EC Electrical	(Subcont	ractor) on site	e. Began trenching for e	electrical conduit from power	er pole to Flare Station pad. Trench 3 ft deep	
	3" SCH 80 P	VC condu	it pipe placed	d in trench, 2 ' of cover,	warning tape, 1' of cover		
•	SCS started	removing	silt accumula	ted on east slope. Silt v	vill be moved up slope. Ve	olia responsible for regarding top east slope	
•_	2 <sup>nd</sup> crew not	present to	day. Will be l	pack tomorrow			
•	Silt accumula	ated on ea	st perimeter	swale to be removed by	Veolia. Silt accumulated o	on south and north perimeter swales to be	
	removed by	Veolia / S	SCS	·			
*	During Progr	ess Meeti	na #10. the fi	ollowing was addressed	•		
•				ediment and erosion co			
<del>-</del>	SCS to repai	r silt fence	as soon as	possible. Damaged silt	fence must be replaced		
•				s soon as possible			
•	SCS to remo	ve downc	hute pipe on	south slope and backfill	eroded area		



Project Owner: 8						
	Sarasota County	у		Contractor: SCS Field Services		
HDR Project No. 098-124468				CQA: Carlos Restrepo (HD	OR)	
Weather Condi	lons:					
Temperature	_		Weather		Precipitation	
Max.	ax. Min. Clea		Clear	Other		
74 F	54F		Sunny		none	
Contractor's Er	nployees / Title	9		Equipment Used		
Jhonny Meler		Superintend	ent			
Ray Perez		Laborer / Dr	ver	1 X Excavator – Kobalko		
Joel Sanchez		Laborer / Dr	lver	3 X Truck F-250		
Fred Harlan		Laborer / Dr	iver	Flat bed F-450		
Abel Sanchez		Laborer / Dr	ver	Bobcat		
Chris Boggs		Laborer / Dr	ver (2 <sup>nd</sup> crew)	1 X articulated dump trucks	3	
Dustin Adams		Laborer / Dri	iver (2 <sup>rd</sup> crew)	Dozer		
Josh Adams		Laborer / Dri	ver (2 <sup>nd</sup> crew)			
Work Performe	đ:					
• SCS a	rrived on site at	t 7:00 am			•	
SCS s	tarted access re	oad at souther	st comer heading upsk	ope for excavator access		
SCS s	tarted regarding	south slope	and moving silt up slop	e ( 1 person x skidster)		
	el access pad li	•				
thatter					i to achieve a 5% slope) – 2 <sup>nd</sup> crew	
<del></del>				nstallation from Flare Station		
					phone conduit line placed directly south	
		**************************************			n south (offset 2' from paved road)	
			eparing area for compr for sod installation on	and the second s	*	
			e met required slope	inday ripin 2, 2010		
			m STA 4+00 to STA 5+	25	a philips - a change and a chan	
	oft the site at 6:0	<u> </u>			and the second s	
• SCS le						





SCS left the site at 6:00 pm

Project Name: CCSWDC Phase I LFG Construction - Sequence 1				Date: 4/1/2010	Day:Thursday	
Project Owner: Sarasota County				Contractor: SCS Field Services		
HDR Project No	096-124466			CQA: Carlos Restrepo (HDR)		
Weather Condi	ions:					
Temperature			Weather		Precipitation	
Max.	Min.		Clear	Other		
77 F	58 F		Sunny		none	
	•					
Contractor's Er	nployees / Title			Equipment Used	·	
Johnny Meier		Superintend	ent			
Brandon Swift		Laborer / Dr	iver	2X Excavator – Kobelco , Komats	su	
Ray Perez		Laborer / Dr	iver	3 X Truck F-250		
Joel Sanchez		Laborer / Dr	iver	Flat bed F-450		
Fred Harlan	-	Laborer / Dr	iver	2 x articulated dump trucks		
Abel Sanchez		Laborer / Dr	iver	Dozer		
Chris Boggs		Laborer / Dr	iver (2 <sup>nd</sup> crew)			
Dustin Adams		Laborer / Dr	iver (2 <sup>nd</sup> crew)			
Josh Adams		Laborer / Dr	iver (2 <sup>nd</sup> crew)			
Work Performe	d:					
• SCS a	rrived on site at	7:00 am.				
• SCS	ontinued excava	ation on east	slope from STA 5+75 to	STA 7+25 (using a laser level to ac	hieve a 5% slope) – 2 <sup>nd</sup> crew	
• 24" SI	DR 17 (header),	4" SDR 9 (co	ndensate), 2" SDR 9 (ai	rline) placed in trench		
• FD&C	(Subcontractor)	continues w	orking on compressor pa	ad		
	•	_ <del>_</del>		installation from Flare Station to Mai		
				ompaction test around compressor p	pad area. Compaction test at 127 pe	
_	•		o pour concrete for com	·	170.	
				d ring around flare station. HDR info		
			nstalled at STA 5+50	t offset from flare pad and compress		
				(airline) and 4" SDR 9 (condensate)	in the trench. 8' risers for all pipes	
			2" and 4" SDR 9 extens			
				enough to header for Type 1. HDR	approved change	
		<del>-</del>	pe met required slope	<u>-</u>		
• SCS	roceeded to ba	ckfill trench fr	om STA 5+25 to STA 7-	+00		



Project Name: CCSWDC Phase I LFG Construction - Sequence 1				Date: 4/2/2010	Day: Friday	
Project Owner: Sarasota County				Contractor: SCS Field Services		
HDR Project No. 09	6-124466			CQA: Carlos Restrepo (	HDR)	
Weather Condition	ns:					
Temperature			Weather		Precipitation	
Max.	Min.		Clear	Other		
80 F	60 F		Sunny		none	
Contractor's Empl	oyees / Title			Equipment Used		
Jhonn <b>y</b> Meier		Superintend	lent			
Steve Miller		Laborer / Dr	iver	2X Excavator – Kobelco	, Komatsu	
Brandon Swift		Laborer / Dr	iver	3 X Truck F-250		
Joel Sanchez		Laborer / Dr	iver	Flat bed F-450		
Abel Sanchez		Laborer / Driver		2 x articulated dump trucks		
Chris Boggs		Laborer / Dr	iver (2 <sup>nd</sup> crew)	Dozer		
Dustin Adams	Dustin Adams Laborer / Du		river (2 <sup>nd</sup> crew)			
Josh Adams		Laborer / Dr	iver (2 <sup>nd</sup> crew)		-	
Work Performed:						
SCS arriv	ed on site at	7:00 am			<u> </u>	
SCS conf	inued excava	tion on east	slope from STA 7+25 to	STA 9+50 (using a laser le	evel to achieve a 5% slope) – 2 <sup>nd</sup> crew	
• 24" SDR	17 (header),	4" SDR 9 (co	ndensate), 2" SDR 9 (a	irline) placed in trench		
• 6" branch	saddlle for G	W-15 lateral	installed at STA 7+17			
• 8" branch	saddlle for A	P installed at	STA 7+50			
				Will return back on site du	ring week of April 12-16, 2010 after SCS has	
	re station an					
			on north slope			
			pe met required slope			
SCS proceeded to backfill trench from STA 7+00 to STA 8+50						
<ul> <li>SCS left t</li> </ul>		upm				



Project Name: CCSWDC Phase I LFG Construction - Sequence 1				Date:4/3/2010	Day: Saturday	
Project Owner: Sarasota County				Contractor: SCS Field Services		
HDR Project No. 096-124466				CQA:Carlos Restrepo (HD	R)	
Weather Condit	ons:					
Temperature			Weather		Precipitation	
Max.	Min.		Clear	Other		
81 F	61 F		Sunny		none	
Contractor's Em	unlovees / Title			Ei		
	pioyees / Title			Equipment Used		
Jhonny Meier		Superintend			<del></del>	
Steve Miller		Laborer / Dr		2 X Excavator - Kobelco , I	Komatsu 	
Brandon Swift		Laborer / Dr	-	3 X Truck F-250		
Joel Sanchez		Laborer / Dr	iver 	Flat bed F-450		
Abel Sanchez		Laborer / Dr		2 x articulated dump trucks		
Chris Boggs		Laborer / Dr	iver (2 <sup>nd</sup> crew)	Dozer		
Dustin Adams		Laborer / Dr	iver (2 <sup>nd</sup> crew)			
Josh Adams		Laborer / Dr	iver (2 <sup>nd</sup> crew)			
		]				
					,	
Work Performed	l:					
SCS a	rrived on site at	7:00 am				
• SCS c	onnected U-2 a	nd remote we	lihead (north slope) to I	.CO-3N. Existing flare stack a	abandoned. Remaining connections	
(LCO-1	N, LCO-2N, LC	CO-4N) to be	completed next week			
SCS in	stalled GW-15	lateral (34' of	6" SDR 11), 2" SDR 9	(airline) and 4" SDR 9 (conder	nsate) in the trench. 8' risers for all pipes	
5' of 4'	SDR 11 exten	tion and 5' of	2" and 4" SDR 9 extens	sion		
SCS in	stalled GW-16	lateral (52' of	6" SDR 11), 2" SDR 9	(airline) and 4" SDR 9 (conder	nsate) in the trench. 8' risers for all pipes	
5' of 4'	SDR 11 exten	tion and 5' of	2" and 4" SDR 9 extens	sion		
• SCS d	d not take leva	tions of latera	ls. Laterals have more t	han 5% slope. HDR approved		
• SCS p	roceeded to ba	ckfill laterals a	and LCO-3N connection	s		
• SCS le	ft the site at 4:0	00 pm				
					· · · · · · · · · · · · · · · · · · ·	





Project Name: CCSWDC Phase I LFG Construction - Sequence 1				Date: 4/5/2010	Day:Monday		
Project Owner: Sarasota County				Contractor: SCS Field	Contractor: SCS Field Services		
HDR Project No. 096-124466				CQA: Carlos Restrep	o (HDR)		
Weather Co	nditions:						
Temperature			Weather		Precipitation		
Max.	Min.		Clear	Other			
85 F	62 F	=	Sunny		none		
Contractor's	Employees /	Title 		Equipment Used			
Jhonny Mele		Superintend	lent				
Steve Miller		Laborer / D	iver	2 X Excavator - Koba	alko		
Brandon Swi	ft	Laborer / D	river	3 X Truck F-250			
Joel Sanchez	! 	Laborer / D	river	Flat bed F-450			
Abel Sanche	z 	Laborer / D	river				
Chris Boggs		Laborer / D	river (2 <sup>nd</sup> crew)	1 X articulated dump trucks			
Dustin Adam	s	Laborer / D	river (2 <sup>nd</sup> crew)				
Josh Adams		Laborer / D	river (2 <sup>nd</sup> crew)				
Steve		Laborer / D	river (2 <sup>nd</sup> crew)				
Work Perfor	med:						
• sc	S arrived on si	te at 7:00 am					
• sc	S continued ex	cavation on east	slope from STA 9+50 t	o STA 10 + 25 (using a	laser level to achieve a 5% slope) - 2 <sup>nd</sup> crew		
• 24	SDR 17 (head	ler), 4" SDR 9 (cc	ndensate), 2" SDR 9 (a	irline) placed in trench			
• sc	S connected re	emote wellhead la	teral (north slope) to Lo	CO-4N. 10' of 6" SDR 1"	1 riser at LCO-4N. Lateral was previously		
	stalled.			<u></u>			
					1 riser at LCO-2N. Lateral was previously		
			<del></del>	header (east slope) is a			
			<del></del>		andfill operator) for areas on north slope that are		
				SCS for sodding this a	id unless they were disturbed during		
			esponsibility of County	areas writite sou is dea	a arises trey were disturbed during		
			pe met required slope		<u></u>		
			om STA 8+50 to STA 9	+50			
	S left the site a						





Project Name: CCSWDC Phase I LFG Construction - Sequence 1				uction - Sequence 1	Date: 4/6/2010	Day:Tuesday	
Project Owner: Sarasota County					Contractor: SCS Field Services		
HDR Proje	ect No. 096-12	24466			CQA: Carlos Restrepo (HDR)		
Weather	Conditions:						
Temperat	ure			Weather		Precipitation	
Max.		Min.		Clear	Other		
81 F		61 F		Sunny		none	
Contract	or's Employe	es / Titie			Equipment Used		
Jhonny M	eier		Superintend	ent			
Steve Mill	 er		Laborer / Dri	iver	2 X Excavator – Kobalko		
Brandon S	 Swift		Laborer / Dri	ver	3 X Truck F-250		
Joel Sano	hez	_	Laborer / Dr	iver	Flat bed F-450		
Abel Sand			Laborer / Dri	iver	1 x water truck		
Chris Bog	gs		Laborer / Dr	iver (2 <sup>nd</sup> crew)	3 X articulated dump trucks		
Dustin Ad			Laborer / Dr	iver (2 <sup>nd</sup> crew)			
Josh Ada	ms		Laborer / Dri	iver (2 <sup>nd</sup> crew)			
Steve			Laborer / Dr	iver (2 <sup>nd</sup> crew)			
				<del></del>			
Work Per	formed:						
	SCS arrived	on site at	7:00 am				
•	SCS continue	ed excava	tion on east s	slope from STA 10+25 to	STA 11+64 (using a laser level to	achieve a 5% slope) – 2 <sup>nd</sup> crew	
		·			line) placed in trench. Flange at end		
	header valve		·				
•	24" header va	alve pit (ea	ast slope) to	be installed approx. 15'	north of surveyed location. SCS doe	es not have additional 24" pipe	
	SCS has inst	talled 115	D LF of 24" p	pe. HDR approved char	nge		
•	KO on east s	lope will b	e replaced w	ith a 18" x 24" x 30" wye	. Wye to be connected to outlet side	e of 24" header valve pit. Since no	
	Additional 24	pipe ava	ilable, Wye v	will be installed approx. 2	25' north of surveyed location. HDR	approved change	
<u> </u>	Pipe crew began fusing 4" SDR 11 / 4" and 2" SDR 9 for GW-17 / 18 laterals						
•_	Sod company	y on site a	t 12:00 pm. l	Began installing sod on	north slope		
				installed at STA 10+25			
•	SCS started	watering s	od installed	on north slope			
<u> </u>	SCS took ele		<u> </u>			<del> </del>	
_	SCS took elevations every 25 ft. Pipe met required slope  Due to valve pits / wye installation at the end of 24" pipe. Trench will not be completely backfilled.						
	Due to valve	pits / wye	installation a	at the end of 24" pipe. In	ench will not be completely backline	<u> </u>	



# Daily Field Report (Continued)

Date:	4/6/	2010 Tuesday
	*	During Progress Meeting #11, the following was addressed:
	<u>.                                    </u>	SCS to clean north and south perimeter swales
	•	SCS to repair/ maintain silt fences
	•	SCS to coordinate with Veolia (landfill operator) for grading benches
	•	SCS to set flare station / stack / compressor onto concrete pads this week
	•	SCS to air test 24" header this week
_		
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		<u> </u>



Project Name: CCSWDC Phase I LFG Construction - Sequence 1				Date: 4/7/2010	Day:Wednesday	
Project Owner: Sarasota County				Contractor: SCS Field Services		
HDR Project No. 096-124466				CQA: Carlos Restrepo (H	DR)	
Weather Cond	litions:					
Temperature			Weather		Precipitation	
Max.	Min.		Clear	Other		
81 F	63 F		Sunny		none	
Contractor's I	mployees / Tit			Equipment Used		
Jhonny Meier		Superintend				
Steve Miller		Laborer / D		2 X Excavator – Kobalko		
Brandon Swift		Laborer / D		3 X Truck F-250		
Joel Sanchez		Laborer / D		Flat bed F-450		
Abel Sanchez		Laborer / D	iver	1 x water truck		
Ray Perez		Laborer / D		2 X articulated dump trucks		
Chris Boggs		Laborer / D	river (2 <sup>nd</sup> crew)		_ <u> </u>	
Dustin Adams		Laborer / D	river (2 <sup>nd</sup> crew)			
Josh Adams			river (2 <sup>nd</sup> crew)			
Steve		Laborer / D	river (2 <sup>nd</sup> crew)			
			<u>-</u>			
Work Perform	ed:					
• SCS	arrived on site	at 7:00 am				
• Flare	station / Stack	placed onto co	ncrete pads. Compress	or and additional connections	s / assemblies to be done at a later date	
					ensate) in the trench. 8' risers for all pipes	
• 4" br	anch saddle for	GW-18 lateral	installed at STA 11+40	. Lateral to be installed at a la	ater date	
• scs	installed 24" he	ader valve pit	and 4" Forcemain valve	pit (for 24" header)		
• Ed F	tuss (County) p	rovided invert e	levations of 24" outlet fr	om header valve pit and top	of paved road in order to calculate slope fo	
30"	neader pipe. 30	header will ha	ve to be adjusted to 2.5	% slope between the 24" he	ader valve pit and the existing anchor	
tren	ch in order not t	o damage liner	. (Approx. 170 LF at 2.5	%) After 30" header crosses	the anchor trench, header will continue	
	<u></u>		outh access road. HDR	approved change		
			4" header valve pit			
	company not or	_ <del></del>				
					le the landfill) in order to determine	
					n groundwater. After 1 hour, water started	
	out before excar			to pump stomrwater in swale	up north to allow remaining water to	
	THE DEIDIE BACK					



Project Name: CCSWDC Phase I LFG Construction - Sequence 1				uction - Sequence 1	Date: 4/8/2010	Day:Thursday	
Project Owner: Sarasota County					Contractor: SCS Field Services		
HDR Project No. 096-124466					CQA: Carlos Restrepo (HDR)		
Weather Cond	itions:						
Temperature				Weather		Precipitation	
Max.	-	Min.		Clear	Other		
81 F	- 1	67 F		Partly Cloudy		none	
			_		<u> </u>		
Contractor's E	mployee	s / Title			Equipment Used		
Jhonny Meier			Superintende	ent			
Steve Miller			Laborer / Dri	ver	2 X Excavator – Kobalko		
Brandon Swift			Laborer / Dri	ver	3 X Truck F-250	-	
Joel Sanchez			Laborer / Dri	ver	Flat bed F-450		
Abel Sanchez			Laborer / Dri	ver	1 x water truck		
Ray Perez			Laborer / Dri	ver	2 X articulated dump trucks		
Chris Boggs			Laborer / Dri	ver (2 <sup>nd</sup> crew)			
Dustin Adams La		Laborer / Driver (2 <sup>nd</sup> crew)					
Josh Adams	-	_	Laborer / Driver (2 <sup>nd</sup> crew)				
Steve		-	Laborer / Driver (2 <sup>nd</sup> crew)				
						-	
Work Perform	ed:						
• scs	arrived or	n site at 7	7:00 am.				
• scs	proceede	ed to exca	avate at the s	outheast corner to verif	y one more time elevation on ancho	or trench. There will be 4.1' vertical	
offse	t between	n the inve	ert of 24" hea	der pipe and top of and	hor trench. 30" pipe will be placed a	at 2.5%	
• scs	proceede	ed to repa	ir silt fence a	long the south slope			
• scs	took elev	ations of	18" header o	n south slope and 18" i	nlet at the 18" x 24" x 30" wye to ve	rify slope. Remaining 18" pipe	
conn	ecting wy	e will hav	e the require	d 5% slope			
					es at the east slope. Air test conduc	cted at GW-18. Pipes tested at	
			oss in pressu		testalled 000 per seed of the		
	24° redu			er the airline valve pit is	installed. SCS proceeded to remov	e aluminum skillet used at U-1 at the	
				ne. Sod company delive	ered sod at 3:00 pm. Sod will be iris	talled tomorrow	
				<u> </u>	. Saw cutting on last paved road be		
	at a later				parting off most purious round bu	and a second to be	
			er valve pit o	n east slope. Remainin	g 18" header will be connected to e	nd of 18" header on south slope	
	orrow			<u>·</u>	-	<u> </u>	
• SCS	left the si	te at 6:00	 ) pm		· .		





Project Name: CCSWDC Phase I LFG Construction - Sequence 1			ion - Sequence 1	Date: 4/9/2010	Day: Friday	
Project Owner. Sarasota County				Contractor: SCS Field Services		
HDR Project No. 096-1	24466			CQA: Don Whiting (HDF	₹)	
Weather Conditions:						
Temperature		We	eather		Precipitation	
	Min.	Cle	ear	Other	Light AM rain	
75 F	70 F	Mo	estly Cloudy			
Contractor's Employe				Equipment Used		
Johnny Meier	-	Superintendent		JCB Forklift		
Steve Miller		aborer / Driver		3 X Excavator - Kobelco	o, Komatsu	
Brandon Swift		aborer / Driver		3 X Truck F-250		
loel Sanchez		aborer / Driver		Flat bed F-450		
Abel Sanchez	La	Laborer / Driver		1 x water truck		
Ray Perez Laborer / Driver			3 X articulated dump tru	cks		
Chris Boggs Laborer / Driver (2 <sup>nd</sup> crew)			Dozer			
Dustin Adams Laborer / Driver (2 <sup>nd</sup> crew)		<del></del>				
losh Adams	L	aborer / Drive	r (2 <sup>nd</sup> crew)			
Steve	La	aborer / Driver	(2 <sup>nd</sup> crew)			
Nork Performed:						
SCS arrived	on site at 7:0	00 am				
Excavated tr	ench for hea	der from 18° h	neader valve pit hea	ding south and east to mate	th exist. trench at approx. Sta. 9+00+/	
SCS installe	d 175 LF of 1	18" header in t	rench from Sta. 9+0	0+/- on south slope to 18" h	neader isolation valve pit on east slope.	
Crew installe south.	ed 4" forcema	ain between bo	oth FM valve pits on	east slope. Installed 4x4 te	e (in place of wye) for forcemain running	
SCS installe	d 2" risers, 2	" ball valve an	d valve pit for air line	e on east slope north of hea	der wye.	
Subcontract	or installed se	od on north sk	ope of landfill.			
SCS installe	d 220+/- LF o	of 4" FM and 2	225+/- LF of 2" air lin	e from Sta. 9+00+/- on sou	th slope to header wye location on east slo	
Excavated b	etween U-Tra	ap U1 and LC	0-1.		·	
SCS installe	d 4" pipe from	m U1 to LCO-	and 4" pipe from fo	orcemain to LCO-1 at northe	east comer of landfill.	
<ul> <li>SCS began</li> </ul>	backfilling 18	3" header form	Sta. 9+00+/- on so	uth slope to 18" header isola	ation valve pit on east slope.	



Project Name: CCSWDC Phase I LFG Construction - Sequence 1			uction - Sequence 1	Date:4/10/2010	Date:4/10/2010 Day: Saturday	
Project Owner: Sarasota County  HDR Project No. 096-124466				Contractor: SCS Field Services		
				CQA: (HDR)		
Weather Cond	litions:					
Temperature Weather		•	Precipitation			
Max.	Min.		Clear	Other		
82F	60F	_	Sunny		.24	
Contractor's E	Employees / Title			Equipment Used		
Johnny Meier		Superintend	ent			
Steve Miller		Laborer / Dr	iver	2 X Excavator – Kobalko		
Brandon Swift		Laborer / Dr	iver	3 X Truck F-250		
Joel Sanchez		Laborer / Dr	iver	Flat bed F-450		
Abel Sanchez		Laborer / Dr	iver	1 x water truck		
Ray Perez		Laborer / Dr	iver	2 X articulated dump trucks		
Chris Boggs		Laborer / Di	iver (2 <sup>nd</sup> crew)			
Josh Adams		Laborer / Di	iver (2 <sup>nd</sup> crew)			
Steve Laborer / Drive		iver (2 <sup>nd</sup> crew)				
		Laborer / Di	iver (2 <sup>rd</sup> crew)			
				-		
Work Perform	ed:					
• scs	arrived on site at	7:00 am				
• Insta	alled U-1 into LCO	-1N (25' of 4"	SDR 11 and 25' of 4" \$	SDR 9)at the NE comer.		
• Insta	alled 27' of 6" SDR	11 to remote	e well head riser at LCC	0-1N at NE corner.	·	
	cfilled pipe and tre					
			cluding NE coner.			
	alled 2" airline valv		<del></del>			
	ed 60' of downcon				•	
	worked ½ day.		ole rain on Monday.			
• 300	Womou /2 day.					







					<del></del>	
Project Name: CCSWI	OC Phase	I LFG Constr	uction - Sequence 1	Date: 4/12/2010 Day:Monday		
Project Owner: Sarasota County				Contractor: SCS Field Services		
HDR Project No. 096-1	24466			CQA: Carlos Restrepo (HDR)		
Weather Conditions:						
Temperature			Weather		Precipitation	
Max.	Min.		Clear	Other		
81 F	63 F		Sunny		none	
Contractor's Employe	es / Title			Equipment Used		
Jhonny Meier		Superintend	ent			
Steve Miller		Laborer / Dr	iver	1 X Excavator – Kobalko		
Brandon Swift		Laborer / Dr	iver	3 X Truck F-250		
Joel Sanchez		Laborer / Dr	iver	Flat bed F-450		
Abel Sanchez		Laborer / Dr	iver	Forklift		
Ray Perez		Laborer / Dr	iver	2 X articulated dump trucks		
Fred Harlan		Laborer / Dr	iver	1 x Dozer		
Chris Boggs		Laborer / Dr	iver (2 <sup>nd</sup> crew)			
Josh Adams		Laborer / Dr	iver (2 <sup>nd</sup> crew)			
Steve		Laborer / Dr	iver (2 <sup>nd</sup> crew)			
Work Performed:						
SCS arrived	on site at	7:00 am		-		
SCS continu	ed excava	tion on south	slope from Sump # 2 a	t STA 0+00 heading west to STA 1	+75 (using a laser level to achieve a	
5% slope)						
• 18" SDR 17	(header),	4" SDR 9 (co	ndensate), 2" SDR 9 (air	line) placed in trench		
				24 lateral to be installed tomorrow		
<del></del>			der tomorrow			
				between flare station and stack, pi	pe stands at flare station	
			acturer) for leak at flame	control box	<del></del>	
Sod compar		<u>-</u>				
			be met required slope			
SCS procee     SCS left the			om STA 0+00 to STA 1+			
- 303 1811 1118	- SILE &I 0.U	— — — —				



Project Name: CCSWDC Phase I LFG Construction - Sequence 1			ruction - Sequence 1	Date: 4/13/2010	Day:Tuesday	
Project Owner: Sarasota County  HDR Project No. 096-124466				Contractor: SCS Field Services		
				CQA: Carlos Restrepo	(HDR)	
Weather Cond	ditions:					
Temperature	_		Weather		Precipitation	
Max.	Min.		Clear	Other		
82 F	65 F		Sunny		none	
Contractor's I	Employees / Title	•		Equipment Used		
Jhonny Meier		Superintend	lent			
Steve Miller		Laborer / Di	river	2 X Excavator – Kobalk	0	
Brandon Swift		Laborer / Di	river	3 X Truck F-250		
Joel Sanchez		Laborer / Di	river	Flat bed F-450		
Abel Sanchez		Laborer / Di	river			
Fred Harlan		Laborer / Di	river	3 X articulated dump trucks		
Chris Boggs Laborer / Driv		river (2 <sup>nd</sup> crew)		•		
losh Adams . Laborer / Driver (2 <sup>nd</sup> cree		river (2 <sup>nd</sup> crew)				
Steve Laborer / Driver (2 <sup>nd</sup> crew)		river (2 <sup>nd</sup> crew)				
<u>-</u>						
Work Perform	ied:					
• SCS	arrived on site at	7:00 am				
• Sod	company on site	delivering / in	stalling sod on north slo			
• scs	continued excav	ation on south	slope from STA 1+75	heading west to STA3+30	End of Pipe (using a laser level to achieve	
5% s	slope)					
• 18° \$	SDR 17 (header),	4" SDR 9 (co	ndensate), 2" SDR 9 (a	irline) placed in trench		
• 18" > ————————————————————————————————————	4" SDR 11 tee fo	or GW-25 inst	alled at STA 1+83.			
• GW-	24 lateral installe	d. 81 LF of 4"	SDR 11 / 4" SDR 9 / 2"	SDR 9. 6' risers all pipes		
				1 hour. No loss in pressure		
<u>_</u>	25 lateral to be in					
			alled at STA 3+25			
	-26 lateral to be in			olono (lotovolo to 1.00	4hl	
			pe met required slope	siope. (laterals to LCO on	south slope not surveyed)	
• 606				+30. Blind flange for 18" he	ader installed at STA 3+30 for future	
• SCS	s proceeded to ba nection	ckilli trench tr	כ או כ טן טכדו או כ וווט	· oo. Diina hango loi 10 no	addi motaned at 6171 6766 for fatare	



# Daily Field Report (Continued)

Date: 4	1/13/2010 Tuesday
*	During Progress Meeting #12, the following was addressed:
•	SCS to coordinate with Veolia to bring benches to design grades
•	SCS to clean north perimeter swale
	SCS will start working 12 hour shifts. Major construction activities requiring HDR supervision will stop at 5 pm.
	SCS / HDR / County to measure remaining areas on east slope where SCS is not required to sod.
	<del></del>
-	<del></del>



SCS left the site at 6:00 pm

Project Name: C	ject Name: CCSWDC Phase I LFG Construction - Sequence 1			Date: 4/14/2010	Day:Wednesday	
Project Owner: Sarasota County  HDR Project No. 096-124466				Contractor: SCS Field Services		
				CQA: Carlos Restrepo (HDR)	,	
Weather Condit	lons:			_		
Temperature Weather		Weather		Precipitation		
Max.	Min.		Clear	Other		
80 F	64 F		Sunny	·	none	
				L		
Contractor's En	nployees / Title	Т -		Equipment Used		
Jhonny Meier		Superintend	ent			
Steve Miller		Laborer / Dr	iver	2 X Excavator – Kobalko		
Brandon Swift		Laborer / Dr	iver	3 X Truck F-250		
Joel Sanchez		Laborer / Dr	iver	Flat bed F-450		
Abel Sanchez		Laborer / Dr	iver			
Ray Perez		Laborer / Dr	iver ·			
Chrls Boggs	Chrls Boggs Laborer / Di		iver (2 <sup>nd</sup> crew)			
Dustin Adams		Laborer / Dr	iver (2 <sup>nd</sup> crew)		•	
Josh Adams Laborer / D		iver (2 <sup>nd</sup> crew)				
Steve	eve Laborer / Driver (2 <sup>nd</sup> crew		iver (2 <sup>nd</sup> crew)			
·				•		
Work Performe	d:		<u> </u>			
SCS a	rrived on site at	7:00 am				
Sod co	ompany on site.	Finished nort	h slope then moved to ea	ast slope		
• GW-2	5 lateral installed	. 63 LF of 4"	SDR 9 (lateral) / 4" SDR	9 / 2" SDR 9 installed. 6' risers a	Il pipes. SCS took elevations. Pipe	
met re	quired slope. 4"	SDR 9 used	instead of 4" SDR 11 for	lateral. HDR approved		
• GW-26	6 lateral installed	. 35 LF of 4"	SDR 11 /4" SDR 9/2" 8	SDR 9 installed. 6' risers all pipes	s. SCS took elevations. Pipe	
Met re	quired slope		_			
• SCS ir	nstalled 4" / 2" bl	ind flanges a	EOP STA 3+30			
• 2 <sup>nd</sup> cre	w excavated at	north edge of	exist. paved road to loca	ate exist. ERCP and at limits of li	ner. 6" of backfill will be required on	
<u>-</u>		<u> </u>		road and approx. 2.2% between	-	
				required at 95% modified procto	r	
		<del>_</del> _	. Returned at 12:00 pm.			
				d 24" TOP at wye. It was determine		
				responsible to adjust valve pits at	southeast comer. All valves will	
·	2' exposed at the				· ·	
	<del> </del>	<del></del>	t in access road.			
	ontinued dressir	<del></del>				



Project Na	ject Name: CCSWDC Phase I LFG Construction - Sequence 1				Date: 4/15/2010	Day:Thursday	
Project Owner: Sarasota County  HDR Project No. 096-124466					Contractor: SCS Field Services		
					CQA: Carlos Restrepo (H	DR)	
Weather (	onditions:						
Temperature		Weather		Precipitation			
Max.		Min.		Clear	Other		
81 F		62 F			Partly Cloudy	none	
	r's Employe	es / Title	·		Equipment Used		
Jhonny M	eier 		Superintend	ent 			
Steve Mill	er 		Laborer / Dr	iver	1 X Excavator - Kobalko		
Brandon S	wift		Laborer / Dr	iver	3 X Truck F-250		
Joel Sanc	nez		Laborer / Dr	lver	Flat bed F-450		
Fred Harla	n		Laborer / Dr	iver	Forklift		
Ray Perez			Laborer / Dri	iver	2 X articulated dump truck	KS	
Chris Bog	js		Laborer / Dr	iver (2 <sup>nd</sup> crew)			
Dustin Adams Laborer / Driver (			Laborer / Dr	iver (2 <sup>nd</sup> crew)	<u> </u>	<u> </u>	
Josh Adar	ns		Laborer / Dr	iver (2 <sup>nd</sup> crew)			
		_					
Work Per	ormed:						
•	SCS arrived	on site at	7:00 am.				
•	Pipe crew be	gan fusin	g 6" SDR 11 p	pipe for remote wellhea	d laterals on south slope		
•	SCS air teste	d 18" hea	ader on south	slope at 5 psig for 1 ho	ur. Sump # 2 connected to 18	B" header not recommended for 10 psig to	
	HDR approve	ed.No pre	ssure loss. 4"	and 2" SDR 9 lines on	south slope tested at 10 psig	g for 1 hour. No loss in pressure	
•	2 <sup>nd</sup> crew-conf	inued ex	cavation acros	ss south access road fo	r installation of 42" RCP - Cla	ass V. 42" RCP installed at 11% slope	
	starting at ed	ge of exis	sting liner to s	south edge of road – Ap	proximatelly 64LF of 42" RCI	P (37 LF of RCP north of exist. road)	
		y on site i	installing sod	on east slope. SCS dec	ided to sod only disturbed an	eas and will not replace dead sod on east	
	slope.						
						S to regrade benches based on County	
	adjust grade				istruction will need to be rega	arded by Veolia before SCS proceeds to	
			S proceeded to	n hackfill to spring line	Compaction test tomorrow		
				sig for 1 hour. No loss i			
<u> </u>	SCS left the					<del></del>	
-			- F				



Project Name: C0	oject Name: CCSWDC Phase I LFG Construction - Sequence 1			Date: 4/16/2010	Day: Friday	
Project Owner: Sarasota County  HDR Project No. 096-124466				Contractor: SCS Field Services  CQA: Carlos Restrepo (HDR)		
Weather Conditi	ons:	_				
Temperature Weather			Precipitation			
Max.	Min.		Clear	Other	·	
78 F	62 F			Mostly Cloudy	none	
	•	_				
Contractor's Em	ployees / Title			Equipment Used		
Johnny Meier		Superintend	ent	JCB Forklift	•	
Steve Miller		Laborer / Dr	iver	2 X Excavator – Kobelco, Komat	su	
Brandon Swift		Laborer / Dr	iver	3 X Truck F-250	_	
Joel Sanchez		Laborer / Dr	iver	Flat bed F-450	_	
Abel Sanchez		Laborer / Dr	íver			
Ray Perez		Laborer / Dr	iver	2 X articulated dump trucks		
Chris Boggs	Chris Boggs Laborer / Dri		iver (2 <sup>nd</sup> crew)	w) Dozer ·		
Dustin Adams Laborer / Driver (2		iver (2 <sup>nd</sup> crew)				
Josh Adams		Laborer / Dr	iver (2 <sup>nd</sup> crew)			
			_			
	_		_			
Work Performed	:			-		
SCS ar	rived on site at	7:00 am				
• Continu	ed backfill and	compaction a	at road crossing.			
Ardama	ın (CQA Sub) o	n site for com	paction test. 95% modi	fied proctor required. Obtained 100	% at spring line of 42" RCP.	
• Nodars	e (CQC Sub) or	site for com	paction test. Obtained 9	98% and 100% at top of grade		
				aving. SCS required to compact bac		
				ver elevations on east slope. Ed Ru		
				quence drawings. HDR will review a	and provide County a response	
			ead lateral – 40 LF of 6	" SDR 11. —		
	tested laterals		<del></del>			
			ead lateral 163 LF of			
			at flare station ( bearing	nection to wye tomorrow		
				. (30" header installed 6" above line	r) HDR approved	
	t the site at 6:0		yo and bago of filler	. 100 Houses mounied to appare mile	.,	



Project Name: CCSWD	C Phase I	LFG Constr	uction - Sequence 1	Date:4/17/2010	Day: Saturday		
Project Owner: Sarasot	a County			Contractor: SCS Field Services			
HDR Project No. 096-1	24466			CQA: Carlos Restrepo HDR)			
Weather Conditions:							
Temperature			Weather		Precipitation		
Max.	Min.		Clear	Other			
80F	67F			Mostly Cloudy	none		
Contractor's Employe	es / Title			Equipment Used			
Steve Miller		Laborer / Dri	iver	2 X Excavator Kobalko			
		_		2 X Truck F-250			
Joel Sanchez		Laborer / Dri	iver	Flat bed F-450			
Abel Sanchez		Laborer / Dri	iver	1 x water truck			
Ray Perez		Laborer / Driver		2 X articulated dump trucks			
Chris Boggs		Laborer / Dri	iver (2 <sup>nd</sup> crew)				
Dustin Adams Laborer / D		Laborer / Dr	iver (2 <sup>nd</sup> crew)				
Josh Adams		Laborer / Dr	ver (2 <sup>nd</sup> crew)				
		_					
Work Performed:			_				
SCS arrived	on site at 7	':00 am					
SCS continue	ed excavat	ion from wye	STA 0+00 towards ac	cess road STA 1+95			
• 30" header /	4" SDR 9 /	2" SDR 9 pl	aced in trench				
Sod company	y not on sit	te today					
SCS took ele	vations ev	ery 10 ft bet	ween wye and road. Pip	e at approximately 2%.			
SCS proceed	led to back	dill trench fro	om STA 0+00 to STA 1+	95			
SCS left the s	site at 4:30	) pm					
		· -					
		· .			<del></del>		
				· · · · · · · · · · · · · · · · · · ·			



Project Owner: Sarason HDR Project No. 096-1 Weather Conditions: Temperature	<u> </u>		Contractor: SCS Field Se	prvices	
Weather Conditions:	24466				
			CQA: Carlos Restrepo (F	HDR)	
Temperature					
	Temperature Weather			Precipitation	
Max.	Min.	Clear	Other		
74 F	69 F		Mostly Cloudy	none	
Contractor's Employe	ees / Title		Equipment Used		
Jhonny Meier	Superinten				
Steve Miller	Laborer / D		2 X Excavator – Kobalko	-	
			3 X Truck F-250		
Joel Sanchez	Laborer / D	)river	Flat bed F-450		
Abel Sanchez	Laborer / D	<del></del>	1 100 1 100		
Ray Perez	Laborer / D				
Fred Harlan	Laborer / D		1 x Dozer		
		Priver (2 <sup>nd</sup> crew)	T X DOZEI		
Josh Adams			-		
Dennis Adams					
	Labolei / L	Oriver (2 <sup>nd</sup> crew)			
Work Performed:					
	on site at 7:00 am				
		FLCO-1S LCO-1S with	40' of CMD CMD starts 20's	south of header. (71 LF of 6" SDR 11)	
				d 30" header starting at Wye to flange at	
	<del> </del>			ump # 3 not tested in the field	
SCS continu	es grading east bench	<del></del>		·	
Hyatt (Subco	ontractor) on site takin	g elevations of 24" head	er at HP (east slope) and at	Wye. Hyatt determined that SCS moved HP	
on east slop	e, therefore, affecting	header elevation at sout	heast corner. SCS responsit	ble to adjust valve pits at southeast corner	
Sod compani	y on site installing soc	on south slope. East slo	ope to continue later		
SCS procee	ded to adjust 4" / 2" va	live pits at southeast con	ner (for 18" and 24" header I	ines). Valve pits will be required to have 2 ft	
exposed at t	he upgradient sidè				
SCS procee	ded to backfill trench f	or LCO-1S. Pipe met rec	uired slope. Markings left fo	r start/end of CMP	
SCS left the	site at 6:30 pm				







Project Name: CCS	NDC Phase	I LFG Constr	uction - Sequence 1	Date: 4/20/2010 Day:Tuesday		
Project Owner: Sara	sota County			Contractor: SCS Field Services		
HDR Project No. 09	6-124466			CQA: Carlos Restrepo (HDR)		
Weather Condition	s:					
Temperature			Weather		Precipitation	
Max.	Min.		Clear	Other		
79 F	69 F		Sunny		none	
Contractor's Emplo	yees / Title			Equipment Used		
Jhonny Meier		Superintend	ent			
Steve Miller		Laborer / Dr	iver	3 X Excavator – Kobalko		
Brandon Swift		Laborer / Dr	iver	3 X Truck F-250		
Joel Sanchez		Laborer / Dr	iver	Flat bed F-450		
Abel Sanchez		Laborer / Dr	iver	Water truck		
Fred Harlan		Laborer / Dr	iver	2 X articulated dump trucks		
Chris Boggs		Laborer / Dr	iver (2 <sup>nd</sup> crew)	1 x Dozer		
Josh Adams	Josh Adams Laborer / Dr		iver (2 <sup>nd</sup> crew)			
Steve		Laborer / Dr	iver (2 <sup>nd</sup> crew)			
Dustin Adams		Laborer / Dr	iver (2 <sup>nd</sup> crew)	·		
Work Performed:						
SCS arriv	ed on site at	7:00 am				
Sod comp	any on site i	nstalling sod	on south slope			
			levations at southeast c			
• 2 <sup>nd</sup> crew o	ontinues exc	cavation south	of access road STA 24	-69 towards Sump # 3 STA 3+97		
				eader will have 3% slope from access		
				nnection at Flare Station. Ground ring	installed around Flare pad and	
		offset from co	ncrete pads)	<del>.</del>		
		d for GW-26	th slope			
SCS continues watering sod on south slope     SCS left the site at 6:00 pm						
- 300 1811 1	io one at o.c	- — —		_ <del></del>		
◆ During Pr	ogress Meet	ing #13, the fo	ollowing was addressed	:		
SCS to cle	ean perimete	er swales at th	ne end of project. Areas	directly at downchute exits are respon	nsibiliyty of Veolia	
Veolia In a	agreement w	ith SCS to gr	ade benches			



	<u> </u>	L	Contractor: SCS Field Sel	
Weather Conditions: Temperature Max.			CQA: Carlos Restrepo (H	IDR)
Temperature Max.	lin.		•	
Max. N	lin.	M		
	lin.	Weather		Precipitation
77 F 6		Clear	Other	
	3 F		Partly Cloudy	none
· -				
Contractor's Employees	s / Title		Equipment Used	
Jhonny Meier	Superintend	dent		
Steve Miller	Laborer / D	river	2 X Excavator – Kobalko	
Brandon Swift	Laborer / D	river	3 X Truck F-250	
Joel Sanchez	Laborer / D	river	Flat bed F-450	
Fred Harlan	Laborer / D	river	2 x dump trucks	
Ray Perez	Laborer / D	river	Water truck	
Chris Boggs	Chris Boggs Laborer / Driver (2 <sup>nd</sup> crew)			
Dustin Adams	ustin Adams Laborer / Driver (2 <sup>nd</sup> crew)			
Josh Adams	h Adams Laborer / Driver (2 <sup>nd</sup> crew)			
Steve	Laborer / D	river (2 <sup>nd</sup> crew)		
Work Performed:				
SCS arrived on	site at 7:00 am			
2 <sup>nd</sup> crew started	d excavating at Sum	p#3. Stormwater from	east perimeter swale seeping	g to Sump # 3 excavation. SCS will dewater
			pumped at CO-13 (west of F	
			19 / 18 / 17 / 16 / 15 / 14 / 13	
		<del></del>	pe to be installed at a later d	
<del>-</del>	<u>-</u>	<u>-</u>	<u> </u>	proceeded to disconnect lid at CO-13.
<u>_</u>			• • • • • • • • • • • • • • • • • • • •	ed change to empty truck directly at
		<u>-</u>		e water truck before using it to watening soc
		te storage tank (inside :		unter in east perimeter avails to drain
				vater in east perimeter swale to drain
			will be installed at 1% per rec	
			existing soil and compacted	
			ennection at flare station	·
SCS left the sit			January olumon	





Project Name: CCSWDC Phase I LFG Construction - Sequence 1				Date: 4/22/2010	Day:Thursday	
Project Owner: Sarasota County				Contractor: SCS Field Services		
HDR Project No.	096-124466			CQA: Carlos Restrepo (I	HDR)	
Weather Condit	ions:				·	
Temperature		\	Veather		Precipitation	
Мах.	Min.		Clear	Other		
82F	64 F		Sunny		none	
Contractor's En	ployees / Title	<del></del> e		Equipment Used		
Jhonny Meier		Superintende	nt			
Steve Miller		Laborer / Driv	rer	3 X Excavator – Kobalko		
Brandon Swift		Laborer / Driv	rer	3 X Truck F-250		
Joel Sanchez		Laborer / Driv	er	Flat bed F-450		
Fred Harlan		Laborer / Driv	er	Forklift		
Ray Perez		Laborer / Driver		2 X articulated dump trucks		
Chris Boggs		Laborer / Driver (2 <sup>nd</sup> crew)		1 x Dozer		
Dustin Adams		Laborer / Driv	ver (2 <sup>nd</sup> crew)			
Josh Adams		Laborer / Driv	ver (2 <sup>nd</sup> crew)			
Steve		Laborer / Driv	ver (2 <sup>nd</sup> crew)			
					<u> </u>	
Work Performed	d:					
SCS a	rrived on site a	t 7:00 am.				
• 2 <sup>nd</sup> cre	w continued in	stalling 42" RCF	at yard waste road cr	rossing # 1. Total of 9 x 42"	RCP (72 LF). Proceeded to backfill to	
Spring	line and comp	acted. Additions	al lifts every 6" and cor	npacted. Nodarse (Subconti	ractor) on site for CQC soil testing.	
Nodars Last	se tested comp	action for subba	ase. Obtained 100%. S	SCS proceeded to continue	backfill with existing soil and compacting.	
2 ft of	cover (road bas	se) will be limer	ock. First 6" of limeroc	k tested. Obtained 96%. Add	ditional lifts will be tested tomorrow by CQA	
EC ele	ctrical (subcon	tractor) on site	continues electrical co	nnections at flare station		
Sod co	mpany on site	continues insta	lling sod on south slop	oe. SCS removed silt fence of	on south slope	
• Veolia	regrading sout	th bench				
• SCS le	ft the site at 6:	00 pm				
		, a				
					6	



Project Name: CCSWDC Phase I LFG Construction - Sequence 1				uction - Sequence 1	Date: 4/23/2010	Day: Friday	
Project Owner: Sarasota County					Contractor: SCS Field Services		
IDR Project No	. 096-1244	166			CQA: Carlos Restrepo	(HDR)	
Weather Cond	tions:				•		
Temperature				Weather	<u> </u>	Precipitation	
Max.	Mir	n.		Clear	Other		
83 F ,	67	' F		Sunny		none	
<del>-</del> ;			_			<u> </u>	
Contractor's E	mployees i	/ Title			Equipment Used		
ohnny Meier		Sup	erintend		JCB Forklift		
Steve Miller		Lab	orer / Dri	ver	2 X Excavator – Kobelo	co, Komatsu	
Brandon Swift		Lab	orer / Dri	ver	3 X Truck F-250		
Fred Harlan		Lab	orer / Dri	ver	Flat bed F-450		
Ray Perez		Lab	orer / Dri	ver	Water truck	<del></del>	
Chris Boggs		Lab	orer / Dri	ver (2 <sup>nd</sup> crew)	2 X articulated dump trucks		
Dustin Adams				ver (2 <sup>nd</sup> crew)	Dozer		
Josh Adams			_	ver (2 <sup>nd</sup> crew)		_	
Steve				ver (2 <sup>nd</sup> crew)			
					_	÷	
						•	
Work Perform	 ed:						
• scs	arrived on s	site at 7:00	am.				
• scs	began exca	avating aga	in at Sur	np # 3. Encountered a	rock laver for last 3 ft of ex	cavation. SCS trying to removed rock for 4 h	
				ing base for yard wast			
				t will connect to Sump			
• scs	began dew	atering Sur	mp # 3 ex	cavation. Approx. 1.5	ft of water		
• Sod (	ompany in	stalling soc	on east	slope			
• Arda	nan (CQA)	on site to t	est yard	waste road crossing #	1. Obtained 112% compac	tion	
• EC E	lectrical (Su	ubcontracto	or) on site	continues electrical co	onnection at flare station		
• Jack	Gibson and	Jim Cox (	County)	on site to verify complia	ance with trench safety after	er they received a call from operations. HDR	
					nch. No other concerns fro		
	installed Su	ump#3.10	CY of c	oncrete placed around	Sump # 3. Additional crush	hed gravel used to continue backfilling	
	# 3 up to						



Project Name: CCSWDC Phase I LFG Construction - Sequence 1				Date:4/24/2010	Day: Saturday	
Project Owner: Sarasota County  HDR Project No. 096-124466				Contractor: SCS Field Services		
				CQA: Carlos Restrepo HDR)		
Weather Conditions:						
Temperature			Weather		Precipitation	
Max.	Min.		Clear	Other	,	
84 F	70 F		Sunny		none	
Contractor's Employe	es / Title	<u>_</u>		Equipment Used		
Johnny Meler		Superintende	ent	JCB Forklift		
Steve Miller	_	Laborer / Dri		2 X Excavator – Kobelco, Komatsu		
Brandon Swift		Laborer / Dri		3 X Truck F-250		
Fred Harlan		Laborer / Dri		Flat bed F-450		
Ray Perez		Laborer / Dri		Water truck		
Chris Boggs		Laborer / Driver (2 <sup>nd</sup> crew)		1 X articulated dump trucks		
Dustin Adams		Laborer / Driver (2 <sup>nd</sup> crew)		Dozer		
Josh Adams		.aborer / Driver (2 <sup>nd</sup> crew)				
Steve		Laborer / Dri	ver (2 <sup>nd</sup> crew)			
Work Performed:						
SCS arrived of	on site at 7	:00 am				
2 <sup>nd</sup> crew start	ed trench	excavation fr	om Sump # 3 STA 4+00	to start of 42" RCP (yard waste road	crossing # 1) STA 5+09 then	
from end of 4	2" RCP (ya	ard waste roa	ad crossing # 1) STA 5+6	32 to STA 6+82 (using a laser level to	achieve a 1% slope)	
SCS continue	ed dewater	ing around S	Sump # 3. Total of 4 water	r trucks needed to dewater.		
Sod Compan	y on site ir	stalling sod	on east slope.			
			continues electrical con	nection at flare station		
			nr. No loss in pressure			
<ul> <li>30" header ca</li> </ul>				stalled in trench. 4" / 2" risers (10 LF	) installed at Sump # 3	
	vations ev		e met required slope			
SCS took ele			CTA 4100 to CTA 21/	19		





Project Name: CCSWDC Phase I LFG Construction - Sequence 1 Project Owner: Sarasota County				Date: 4/26/2010	Day:Monday	
Project Owner: Sarasota County				Contractor: SCS Field Services		
HDR Project No. 096-124466				CQA: Carlos Restrepo (	HDR)	
Weather Condition	s:					
Temperature			Weather		Precipitation	
Max.	Min.	_	Clear	Other		
80 F	67F			Partly Cloudy	none-	
		_			-	
Contractor's Empl	oyees / Title	)		Equipment Used		
Jhonny Meier		Superintend	ent			
Steve Miller		Laborer / Dr	iver	2 X Excavator – Kobalko		
Brandorı Swift		Laborer / Dr	iver	3 X Truck F-250		
Ray Perez		Laborer / Dr	iver	Flat bed F-450		
Fred Harlan		Laborer / Dr	iver	1 x Forklift		
Chris Boggs		Laborer / Dr	iver (2 <sup>nd</sup> crew)			
Josh Adams		Laborer / Dr	iver (2 <sup>nd</sup> crew)			
Dennis Adams		Laborer / Dr	iver (2 <sup>nd</sup> crew)			
Steve		Laborer / Dr	iver (2 <sup>nd</sup> crew)	_		
Work Performed:						
SCS arriv	ed on site at	7:00 am		-	_	
EC Electr	ical (Subcon	tractor) on site	e continues electrical co	onnection at Flare Station. F	Pouring concrete for control panel pad	
SCS dew	atering eas	t perimeter s	wale due to rain during	g the weekend (1.19 inche	<u> </u>	
• 2 <sup>nd</sup> crew s	tarted movir	ng 42" RCP to	yard waste road crossi	ng # 2.		
SCS cont	inues all mo	ming pumping	water from east perime	eter swale. SCS blocking w	ater up north in same perimeter swale.	
HDR met	with Jack G	ibson (County	) to discuss dewatering	issues. No other concerns	from County. Ed Russ (County) informed	
SCS that	Veolia will n	ot dewater pe	rimeter swale. Perimete	er swale have ditch blocks p	preventing water to continue flow up north.	
SCS may	continue ble	ocking water u	using soil.			
• SCS cont	inued excav	ation in the af	temoon. Excavated from	n STA 5+82 (south of yard	waste road crossing # 1) to STA 7+34 (HP)	
		· · · · · · · · · · · · · · · · · · ·	(using a laser level to a	achieve a 1% slope)		
		<u></u>	laced in trench			
			pe met required slope			
			om STA 5+82 to STA 9-	+25		
			ound Sump #3	ldine.		
			st slope remains for soc			
- 303 181[1	he site at 6:0	DO PIN				





Project Name: CCSWDC Phase I LFG Construction - Sequence 1	Date: 4/27/2010 Day:Tuesday		
Project Owner: Sarasota County	Contractor: SCS Field Services		
HDR Project No. 096-124466	CQA: Carlos Restrepo (HDR)		

#### Weather Conditions:

Temperature		Weather		Precipitation
Max.	Min.	Clear	Other	
77 F	62 F		Partly Cloudy	none

Contractor's Employee	es / Title	Equipment Used		
Jhonny Meier	Superintendent			
Steve Miller	Laborer / Driver	2 X Excavator – Kobalko		
Brandon Swift	Laborer / Driver	3 X Truck F-250		
Ray Perez	Laborer / Driver	Flat bed F-450		
Fred Harlan	Laborer / Driver	Water truck		
Chris Boggs	Laborer / Driver (2 <sup>nd</sup> crew)	1 X articulated dump trucks		
Josh Adams	Laborer / Driver (2 <sup>nd</sup> crew)	1 x Dozer		
Steve ·	Laborer / Driver (2 <sup>nd</sup> crew)	1 x Forklift		

#### Work Performed:

- SCS arrived on site at 7:00 am
- SCS began excavating for Sump # 4 installation.
- SCS continues dressing up area from Sump # 3 towards Sump # 4
- HDR met with Ed Russ (County) to select Phase II leachate forcemain pipe markers that will be removed. Pipe markers will be used
  for the 30° header outside of landfill. Total of 8 pipe markers selected. HDR provided markers to SCS for installation
- Sod company not on site today
- EC Electrical (Subcontractor) on site continues electrical connection at flare station. HDR Electrical Engineer on site to inspect electrical work at flare station
- SCS encountered a rock layer for last 3 ft of excavation at Sump # 4. SCS trying to removed rock for 2 hrs
- SCS installed Sump # 4. 10 CY of concrete placed around Sump # 4. Additional crushed gravel used to continue backfilling
   Sump # 4 up to invert of 30° lines.
- SCS left the site at 6:00 pm
- During Progress Meeting #14, the following was addressed:
- · Hydroseeding permitted along the 30" header
- Couny to provide SCS information on existing Phase I leachate FM piping location near the flare station







Project Name: CCSWDC Phase I LFG Construction - Sequence 1			uction - Sequence 1	Date: 4/28/2010	Day:Wednesday	
Project Owner: Sarasota County				Contractor: SCS Field Services		
HDR Pro	ject No. 096-1	24466			CQA: Carlos Restrepo (	(HDR)
Weather	Conditions:					
Tempera	iture			Weather		Precipitation
Max.		Min.		Clear	Other	
76F		60F			Partly Cloudy	none
Contract	tor's Employe	es / Title			Equipment Used	
Jhonny N	Meier		Superintend	ent		
Steve Mi	iller		Laborer / Dri	ver	2 X Excavator - Kobalk	0
Brandon	Swift		Laborer / Dri	iver	3 X Truck F-250	
Ray Pere	ez		Laborer / Dr	iver	Flat bed F-450	
Fred Har			Laborer / Dr	iver	1 x dump trucks	
Chris Bo	ggs		Laborer / Dri	iver (2 <sup>nd</sup> crew)	Water truck	
Josh Ada	ams		Laborer / Dri	iver (2 <sup>nd</sup> crew)		
Steve			Laborer / Dr	iver (2 <sup>nd</sup> crew)		
Dustin A	dams		Laborer / Dr	ver (2 <sup>nd</sup> crew)		<u>_</u>
						•
Work Pe	erformed:					
•	SCS arrived	on site at	7:00 am			<del></del>
•	EC Electrical	(Subcont	ractor) on site	continues electrical co	onnection at flare station	
•						nd started 42" RCP installation.
•				- '	will be installed at 1% per n	
<u>.</u>						ompacted. 6" lifts after that and compacted
				mpaction test tomorrov		<u> </u>
•				· · ·	existing leachate storage to	
-						leachate storage tank). Ed Russ (County)
				oroved cleaning of colle		g at yard waste road crossing # 2
•				st slope remains to be s		g u. yu.u uusus . suu u seesii.g ; _
•	SCS left at 6			,		
				•		





Project Name: CCSWDC Phase I LFG Construction - Sequence 1			uction - Sequence 1	Date: 4/29/2010	Day:Thursday		
Project Owner: Sarasota County  HDR Project No. 096-124466					Contractor: SCS Field Services		
					CQA: Carlos Restrepo (	HDR)	
Weather Cond	itions:						
remperature			_	Weather		Precipitation	
Max.	Mi	lin.		Clear	Other		
79 F	6	7 F	_		Partly Cloudy	none	
			_				
Contractor's E	mployees	/ Title			Equipment Used		
lhonny Meier			Superintende	ent			
Steve Miller	_		Laborer / Dri	ver	2 X Excavator - Kobalko	)	
Brandon Swift		l	Laborer / Dri	ver	3 X Truck F-250		
Ray Perez		l	Laborer / Dri	ver	Flat bed F-450		
Fred Harlan		l	Laborer / Dri	ver	Forklift		
Chris Boggs			Laborer / Dri	ver (2 <sup>nd</sup> crew)	1 X articulated dump trucks		
Josh Adams			Laborer / Driver (2 <sup>nd</sup> crew)		1 x Dozer .		
Steve			Laborer / Dri	ver (2 <sup>nd</sup> crew)			
Dustin Adams		l	Laborer / Dr	ver (2 <sup>nd</sup> crew)			
			,				
		_					
Nork Perform	∍d:						
• scs	arrived on	site at 7	:00 am.				
• SCS	began exc	avation 1	from STA 9+	45 (Sump # 4) to STA	11+83 (HP) then to STA 12	2+79 (start of 42" RCP at yard waste road	
cross	ing # 2)						
• 30" h	eader air te	ested. 10	psig for 1 h	r. No loss in pressure			
• Hyatt	surveyor	on site to	finish cut m	arks for 30" header fro	m yard waste road crossing	# 2 towards flare station.	
• SCS	continues	dewateri	ing at Sump	# 4 before connecting	30" header		
			<u> </u>		nnection at flare station		
			stallation ton				
				aced in trench			
			<u> </u>	e met required slope	IQ. 70 Mamine tone al-	Lin transh	
	left the site			111 51A 9+45 to 51A	2+79. Warning tape placed	initidencii.	
		a a. o.uu	PILI				



	C Phase I LFG Cons	struction - Sequence 1	Date: 4/30/2010	Day: Friday	
Project Owner: Sarasof	ta County		Contractor: SCS Field Services		
HDR Project No. 096-1	24466		CQA: Don Whiting (HDR)	·	
Weather Conditions:					
Temperature		Weather		Precipitation	
Max.	Min.	Clear	Other		
82 F	72 F	Partly Cloudy		None	
	•				
Contractor's Employe	es / Title		Equipment Used		
Johnny Meier	Superinter	ndent	JCB Forklift		
Steve Miller	Laborer / I	Driver	3 X Excavator - Kobelco, K	omatsu	
Brandon Swift	Laborer / I	Driver	3 X Truck F-250		
Ray Perez	Laborer / I	Driver	Flat bed F-450		
Fred Harlan	Laborer / I	Driver	Bobcat		
Chris Boggs	Laborer / I	Driver	2 X articulated dump trucks		
Dustin Adams	Laborer / I	Driver	1 x Dozer		
Josh Adams	Laborer / I	Driver	Water Truck	Water Truck	
Steve	Laborer / I	Orver			
	_				
Work Performed:					
SCS arrived	on site at 7:00 am.				
			l panel to stack. Prepared for e	lectrical inspection.	
		der from Sta. 13+25+/- to			
		and 2" air line from Sta.			
		t road crossing at approx	. Sta. 13+00+/		
	or placed sod on east		and 481201/ to leasts evicting 6	<sup>15</sup> less hate forces sin	
	emain not in location		nd 18+30+/- to locate existing 6	leachate forcemain.	
			nsate sump S-4 at at approx. S	 ta. 9+50+/	
			ne from Sta. 13+00+/- to 14+60-		
<ul> <li>SCS backfille</li> </ul>	<u>-</u>		eted electrical inspection of the		



Project Name: CCSWDC Phase I LFG Construction - Sequence 1				Date:5/1/2010	Day: Saturday	
Project Owner: Sarasota County				Contractor: SCS Field Services		
HDR Project No.	096-124466			CQA: Don Whiting (HD	PR)	
Weather Conditi	ons:					
Temperature		_	Weather		Precipitation	
Max.	Min.	_	Clear	Other		
85 F	74 F	_	Partly Cloudy		None	
Contractor's Em	ployees / Title	9		Equipment Used		
Johnn <b>y M</b> eier		Superintend	ent	JCB Forklift		
Steve Miller		Laborer / Dr	iver	3 X Excavator – Kobelo	co, Komatsu	
Ray Perez		Laborer / Dr	iver	3 X Truck F-250		
Fred Harlan		Laborer / Dr	iver	Flat bed F-450		
Chris Boggs		Laborer / Dr	iver	Bobcat		
Dustin Adams		Laborer / Dr	iver	2 X articulated dump to	ucks	
Josh Adams		Laborer / Dr	iver	1 x Dozer		
Steve		Laborer / Dr	ver	Water Truck		
<u>-</u>						
· <u>-</u>	_					
Work Performed	:					
SCS ar	rived on site a	t 7:00 am.				
Subcor	tractor placed	sod along sw	ale adjacent to 30" head	der south of Phase 1 landfi	ill from approx. Sta. 3+00+/- to 8+50+/	
SCS in	stalled extensi	ions on 18" an	d 24" header valve pits	located at the southeast co	omer of Phase 1 landfill.	
Subcor	tractor placed	sod on east s	lope of Phase 1 landfill			
• SCS de	eparted site at	approx. 11:30	AM.			
_	_					
	_	_			·	
	<u>.</u>					
			-			



Project Name: CCSWDC Phase I LFG Construction - Sequence 1			uction - Sequence 1	Date: 5/3/2010	Day:Monday	
Project Owner: Sarasota County				Contractor: SCS Field Services		
HDR Pro	oject No. 096-1	24466	_		CQA: Don Whiting (HDF	₹)
Weathe	r Conditions:					·
Tempera	ature			Weather		Precipitation
Max.		Min.		Clear	Other	
90 F	_	75 F			Partly Cloudy	None
	_	_		_		
Contrac	tor's Employe	es / Title			Equipment Used	
Johnny I	Meier		Superintend	ent	1 x Forklift	
Steve M	iller		Laborer / Dr	iver	3 X Excavator - Kobelco	, Komatsu
Ray Perez Laborer / D		Laborer / Driver		2 X Truck F-250		
Fred Ha	rlan		Laborer / Driver		Flat bed F-450	
Chris Bo	ggs		Laborer / Dr	iver	Bobcat	
Josh Ada	ams		Laborer / Dr	iver	2 X Articulated dump tru	cks
Dustin A	dams		Laborer / Dr	iver	1 x Dozer	
Steve			Laborer / Driver		Water Truck	
		_				
Work Pe	erformed:					
•	SCS arrived	on site at 7	7:00 am			<del>-</del>
•	Backfilled ard	ound head	er valve pits	and installed tabs for lo	cking bars on pit extensions	s at southeast comer of Phase 1 landfill.
•	8:25 am - Ard 9+50+/ All d	daman on s lensity test	site to check is passed.	densities at header roa	d crossings (Sta. 8+30+/- 8	k 13+00+/-) and adjacent to S-4 at Sta.
•	Sub installed	sod on ea	st and south	slopes of Phase 1 land	ıfill.	
•	9:30 am – Ba	arracades v	were relocate	ed, traffic was detoured	and SCS began excavation	for header road crossing at Sta. 18+31+/-
•	10:30 am - S County conta	CS severe	ed phone line on to schedu	e buried approx. 3 ft. de ule repair work. Phone s	ep on south side of road. Service to Maintenance bldg	CS notified the County immediately and the 's, and C&D facility was interrupted.
,•	SCS continue	ed excavat	ion across ro	oad until noon.		
				repair phone line		

Trench bottom at road crossing became saturated in the afternoon with ground water making conditions too wet to begin installation of 48" RCP. SCS decided to partially backfill excavation for the evening.

2:40 pm - Jack Gibson (County) on site to observe trench excavation operation. HDR discussed trench conditions with Mr. Gibson.

SCS fusing 30° HDPE pipe and fittings in yard north of flare station.

SCS removed silt fence along south toe of Phase 1 landfill slope.

Watering new sod along swale adjacent to 30° header fron Sta. 3+00+/- to 9+50+/-.





Project Name: CCSWDC Phase I LFG Construction - Sequence 1				Date: 5/4/2010	Day:Tuesday	
Project Owner: Sarasota County				Contractor: SCS Field Services		
HDR Project No. 096-124466				CQA: Itza Rivera-Frisco (HDR)		
Weather Conditions:						
Temperature			Weather		Precipitation	
Max.	Min.		Clear	Other		
88F	76F		Sunny			
·						
Contractor's Employees / Title				Equipment Used		
Johnny Meier		Superintendent		1 x Forklift		
Steve Miller		Laborer / Driver		3 X Excavator – Kobelco, Komatsu		
Ray Perez		Laborer / Driver		2 X Truck F-250		
Fred Harlan		Laborer / Driver		Flat bed F-450		
Chris Boggs		Laborer / Driver		Bobcat		
Dustin Adams		Laborer / Driver		2 X Articulated dump trucks		
Steve		Laborer / Driver		1 x Dozer		
		Laborer / Driver		Water Truck		
Work Performed:						
SCS arrived on site at 7:00 am.						
<ul> <li>Dewatering trench and over excavating saturated soil (approx. 4' deeper) in order to find more stable ground and will backfill with broken concrete prior to placing 48" RCP in trench.</li> </ul>						
SCS obtained 5 loads of broken concrete from WCA.						
SCS placed	SCS placed approx. 4 loads (28 cy articulated dump truck) of broken concrete on north and south side of road crossing.					
• Fusing 36" H	Fusing 36" HDPE pipe, 90-degree elbow and reducer.					
	SCS installed four 4' section of 48" RCP in road crossing.					
<ul> <li>SCS asked v be performed</li> </ul>	<ul> <li>SCS asked whether 90' of 36" HDPE had to be pressure tested. HDR replied that 36" pipe had to be air tested but the air test could be performed outside of trench. HDR also noted that 36" pipe could be air tested with 90-degree bend attached.</li> </ul>					
<ul> <li>SCS extended road crossing area 4' further east and west in order to stabilize the slopes for SCS personnel to be inside the trench area when installing the pipe.</li> </ul>						
SCS backfille	SCS backfilled over the 48" RCP.					
SCS Subcontractor sodding on from the valve pits on east side of Phase I Landfill to southeast comer of Phase I landfill.						
•						
•						
<u> </u>						



Project Name:	CCSWD	C Phase	I LFG Constr	uction - Sequence 1	Date: 5/5/2010	Day:Wednesday		
Project Owner	Sarasot	a County			Contractor: SCS Field Services			
HDR Project N	o. <b>09</b> 6-1	24466			CQA: Itza Rivera-Frisco (HI	DR)		
Weather Cond	litions:	•						
Temperature Weather		Weather		Precipitation				
Max.		Min.		Clear	Other			
86F		75F	_					
						·		
Contractor's	Employe	es / Title			Equipment Used			
Johnny Meier	_		Superintend	ent	1 x Forklift	<del>- ,</del>		
Steve Miller			Laborer / Dr	iver	3 X Excavator - Kobelco, K	omatsu		
Ray Perez			Laborer / Dr	iver	2 X Truck F-250			
Fred Harlan			Laborer / Dr	iver	Flat bed F-450			
Josh Adams			Laborer / Dr	iver	Bobcat	-		
Dustin Adams			Laborer / Driver		2 X Articulated dump trucks	2 X Articulated dump trucks		
Steve		Laborer / Driver		1 x Dozer				
			Laborer / Driver		Water Truck			
Work Perform	ed:							
• scs	arrived	on site at	7:00am.					
• scs	continue	es to fuse	36" HDPE pi	pe and 90-degree elbo	w.			
• scs	continue	es to back	fill and comp	acting over 48" RCP.				
• Con	inue to d	lewater tre	ench on north	and south sides of roa	d crossing at Flare Station.			
- scs	placed	and comp	acting limero	ck over road crossing.	·			
				t:00pm) to check densit o S-4 at Sta. 9+50+/		Station, header road crossings (Sta.		
<ul> <li>Perf pres</li> </ul>	<ul> <li>Performed air test on 90' of 36" HDPE pipe and 90-degree elbow. Started test at 2:53pm and concluded test at 3:53pm. Starting pressure = 10 psi. Finish pressure = 10 psi.</li> </ul>							
• Disa	ssemble	d 36"HDP	E for instllation	on tomorrow.				
• scs	Subcon	tractor co	mpleted sodo	ling on southeast come	er of Phase I landfill. County to	арргоче.		
•								





Project Name: CCSWDC Phase I LFG Construction - Sequence 1			uction - Sequence 1	Date: 5/6/2010	Day:Thursday			
Project Owner: Sarasota County				Contractor: SCS Field Services				
-IDR Projec	t No. 096-1	24466			CQA: Itza Rivera-Frisco (H	DR)		
Weather C	onditions:							
Temperature Weather			Weather		Precipitation			
Max.		Min.		Clear	Other			
35 F		73 F		Sunny				
Contractor	's Employe	es / Title			Equipment Used			
Johnny Me	 er		Superintend	ent	1 x Forklift			
Steve Mille			Laborer / Dr		3 X Excavator – Kobelco, K	Comatsu		
Ray Perez			Laborer / Dr		2 X Truck F-250			
Fred Harlar		_	Laborer / Dr		Flat bed F-450			
Josh Adam			Laborer / Driver		Bobcat			
Dustin Ada	ms		Laborer / Driver		2 X Articulated dump trucks			
Steve		Laborer / Driver		1 x Dozer				
			Laborer / Dr	iver	Water Truck			
		_						
			,					
			_					
Work Perf	ormed:							
• 5	CS arrived	on site a	t 7:00am.					
• 4	rdaman on	site at 7:	45am to chec	k densities on limerock	at road crossing. Test passed	l.		
. 8	CS installed	90' of 3	6" HDPE pipe	and 90-degree elbow.				
• , [	ewatering o	n north a	and south side	es of road crossing.				
	er SCS' req		Irain line insta	lled at same elevation a	s 36" HDPE and will tie in to s	sump S-5 around same elevation as 36°		
	<ul> <li>While excavating near flare station for installation of 90-degree elbow, SCS cut ground wire. EC Electrical contractor notified of issue.</li> </ul>							
					e, pulling wire from control par is time to finish installation ar	nel to blower, and pulling wire from panel and to repair ground wire.		
C	SCS reuested that the configuration of bollards around the valve pits on east side of Phase I landfill be modified due to the configuration/layout of valve pits. Per the drawings each valve pit will have 4 bollards installaed around it. The revised configuration will be 2 bollards around each valve pit. HDR approved revised configuration.							
• 5	SCS placed bags of quickcrete around the 36" HDPE pipe at opening of 48"RCP pipe sleeve to stop water and soil intrusion.							
	Installed 90' of 2" drain line and 2" air line along side 36" HDPE pipe at road crossing.							
<u>•                                     </u>	istalled 90	UI Z UI A	Backfilled south side and a portion of the north side of 36" HDPE pipe at road crossing. Repaired telephone wire was put back approx. 36" below final grade on south side of road crossing.					



Max. Min. Clear Other  90 F 75 F AM Fog Pt. Cloudy No  Contractor's Employees / Title Equipment Used  Johnny Meier Superintendent 1 x Forklift  Steve Miller Laborer / Driver 3 X Excavator – Kobelco, Komatsu  Dustin Adams Laborer / Driver 2 X Truck F-250  Josh Adams Laborer / Driver Flat bed F-450  Fred Harlan Laborer / Driver Bobcat  Steve Laborer / Driver 2 X articulated dump trucks  1 x Dozer  Water Truck	Day: Friday		
Weather Conditions:  Temperature	Contractor: SCS Field Services		
Temperature  Max.  Min.  Clear  Other  Other  Other  Other  Other  Pt. Cloudy  No  Contractor's Employees / Title  Johnny Meier  Superintendent  Laborer / Driver  Johnny Meier  Laborer / Driver  John Adams  Laborer / Driver  Bobcat  Steve  Laborer / Driver  John Adams  John Adams  John Adams  Laborer / Driver  John Adams  John Adams  Laborer / Driver  John Adams  John Adams  John Adams  Laborer / Driver  John Adams  John Adams  John Adams  Laborer / Driver  John Adams  John Adams  John Adams  Laborer / Driver  John Adams  John Adams  John Adams  John Adams  John Adams  Laborer / Driver  John Adams  John A	CQA: Don Whiting (HDR)		
Max. Min. Clear Other  90 F 75 F AM Fog Pt. Cloudy No  Contractor's Employees / Title Equipment Used  Johnny Meier Superintendent 1 x Forklift  Steve Miller Laborer / Driver 3 x Excavator – Kobelco, Komatsu  Dustin Adams Laborer / Driver 2 x Truck F-250  Josh Adams Laborer / Driver Flat bed F-450  Fred Harian Laborer / Driver Bobcat  Steve Laborer / Driver 2 x articulated dump trucks  1 x Dozer  Water Truck  Work Performed:  SCS arrived on site at 7:00 am.  Excavated for condensate sump S-5. SCS encountered rock approx. 14 ft. below grade. Excavated a backhoe and hoe-ram. Used 3° pump in kelly well to dewater excavation.  SCS constructed temporary containment area, lined with plastic, east of S-5 excavation for dewaterin to pump out water and transport to leachate storage tank sump.  SCS fused 4" saddle and 4x2 reducer to west side of S-5 (above ground) for flare station condensate 12:30 pm — Jack Gibson on-site to observe construction activity.  SCS placed 6-12" of crushed rock bedding in excavation and set sump S-5.  Connected 36" header to S-5, placed 10 C.Y. of concrete ballast and approx. 10 C.Y. of crushed rock SCS partially backfilled around sump S-5.			
Gontractor's Employees / Title  Laborer / Driver  Superintendent  Laborer / Driver  Johnny Meier  Laborer / Driver  Josh Adams  Laborer / Driver  Laborer / Driver  Bobcat  Steve  Laborer / Driver  Laborer / Driver  Bobcat  Steve  Laborer / Driver  Water Truck  Steve  Laborer / Driver  Laborer / Driv	Precipitation		
Contractor's Employees / Title  Johnny Meier  Superintendent  1 x Forklift  Steve Miller  Laborer / Driver  3 X Excavator – Kobelco, Komatsu  Dustin Adams  Laborer / Driver  Josh Adams  Laborer / Driver  Josh Adams  Laborer / Driver  Bobcat  Steve  Laborer / Driver  Bobcat  Steve  Laborer / Driver  Z X articulated dump trucks  1 x Dozer  Water Truck  Work Performed:  SCS arrived on site at 7:00 am.  Excavated for condensate sump S-5. SCS encountered rock approx. 14 ft. below grade, Excavated a backhoe and hoe-ram. Used 3* pump in kelly well to dewater excavation.  SCS constructed temporary containment area, lined with plastic, east of S-5 excavation for dewaterin to pump out water and transport to leachate storage tank sump.  SCS fused 4* saddle and 4x2 reducer to west slide of S-5 (above ground) for flare station condensate  12:30 pm – Jack Gibson on-site to observe construction activity.  SCS placed 6-12* of crushed rock bedding in excavation and set sump S-5.  Connected 36* header to S-5, placed 10 C.Y. of concrete ballast and approx. 10 C.Y. of crushed rock  SCS partially backfilled around sump S-5.			
Johnny Meier Superintendent 1 x Forklift  Steve Miller Laborer / Driver 3 x Excavator – Kobelco, Komatsu  Dustin Adams Laborer / Driver 2 x Truck F-250  Josh Adams Laborer / Driver Flat bed F-450  Fred Harlan Laborer / Driver Bobcat  Steve Laborer / Driver 2 x articulated dump trucks  1 x Dozer  Water Truck  Work Performed:  SCS arrived on site at 7:00 am.  Excavated for condensate sump S-5. SCS encountered rock approx. 14 ft. below grade. Excavated a backhoe and hoe-ram. Used 3" pump in kelly well to dewater excavation.  SCS constructed temporary containment area, lined with plastic, east of S-5 excavation for dewaterin to pump out water and transport to leachate storage tank sump.  SCS fused 4" saddle and 4x2 reducer to west side of S-5 (above ground) for flare station condensate 12:30 pm – Jack Gibson on-site to observe construction activity.  SCS placed 8-12" of crushed rock bedding in excavation and set sump S-5.  Connected 36" header to S-5, placed 10 C.Y. of concrete ballast and approx. 10 C.Y. of crushed rock SCS partially backfilled around sump S-5.	None		
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Steve Miller  Laborer / Driver  Piat bed F-450  Bobcat  Steve  Laborer / Driver  Bobcat  Laborer / Driver  Bobcat  Laborer / Driver  Bobcat  Laborer / Driver  Laborer / Drive			
Dustin Adams  Laborer / Driver  Flat bed F-450  Fred Harlan  Laborer / Driver  Bobcat  Steve  Laborer / Driver  Bobcat  1 x Dozer  Water Truck  Water Truck   SCS arrived on site at 7:00 am.  Excavated for condensate sump S-5. SCS encountered rock approx. 14 ft. below grade. Excavated a backhoe and hoe-ram. Used 3" pump in kelly well to dewater excavation.  SCS constructed temporary containment area, lined with plastic, east of S-5 excavation for dewaterin to pump out water and transport to leachate storage tank sump.  SCS fused 4" saddle and 4x2 reducer to west side of S-5 (above ground) for fiare station condensate 12:30 pm — Jack Gibson on-site to observe construction activity.  SCS placed 6-12" of crushed rock bedding in excavation and set sump S-5.  Connected 36" header to S-5, placed 10 C.Y. of concrete ballast and approx. 10 C.Y. of crushed rock SCS partially backfilled around sump S-5.			
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Fred Harlan  Laborer / Driver  2 X articulated dump trucks  1 x Dozer  Water Truck  Work Performed:  • SCS arrived on site at 7:00 am.  • Excavated for condensate sump S-5. SCS encountered rock approx. 14 ft. below grade. Excavated a backhoe and hoe-ram. Used 3" pump in kelly well to dewater excavation.  • SCS constructed temporary containment area, lined with plastic, east of S-5 excavation for dewatering to pump out water and transport to leachate storage tank sump.  • SCS fused 4" saddle and 4x2 reducer to west side of S-5 (above ground) for flare station condensate 12:30 pm – Jack Gibson on-site to observe construction activity.  • SCS placed 6-12" of crushed rock bedding in excavation and set sump S-5.  • Connected 36" header to S-5, placed 10 C.Y. of concrete ballast and approx. 10 C.Y. of crushed rock SCS partially backfilled around sump S-5.			
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<ul> <li>Connected 36" header to S-5, placed 10 C.Y. of concrete ballast and approx. 10 C.Y. of crushed rock</li> <li>SCS partially backfilled around sump S-5.</li> </ul>			
SCS partially backfilled around sump S-5.			
	ck around sump base.		
SCS discontinued work at approx. 4:00 pm.			
· · · · · · · · · · · · · · · · · · ·			





Project Name: CCSWDC Phase I LFG Construction - Sequence 1 Date:5/8/2010 Day: Saturday Project Owner: Sarasota County Contractor: SCS Field Services HDR Project No. 096-124466 CQA: Don Whiting (HDR) Weather Conditions: Temperature Weather Precipitation Max. Min. Clear Other 88 F 75 F Pt. Cloudy None Contractor's Employees / Title Equipment Used Johnny Meier Superintendent 1 X Forklift Steve Miller Laborer / Driver 3 X Excavator – Kobelco, Komatsu **Brandon Swift** Laborer / Driver 2 X Truck F-250 Josh Adams Laborer / Driver Flat bed F-450 Fred Harlan Laborer / Driver Bobcat Steve Laborer / Driver 2 X articulated dump trucks 1 x Dozer Water Truck Work Performed: SCS arrived on site at 7:00 am. Fusing 4" HDPE pipe in yard south of yard waste mulching area (Phase 3). SCS exposed south end of previously installed 30" header at approx. Sta.14+55+/- and removed blind flange from pipe. SCS cut new 30" pipe to length in yard north of flare station and fused flanged fitting on end of pipe. Watered new sod on south slope of Phase 1 landfill and swale adjacent to 30" header from approx. Sta. 3+00+/- to 9+50+/-. SCS installed blind flanges on each end of new 30" pipe in yard, installed gauge, pressurized pipe to 10 psi and began pressure test. Start: 11:40 am. End: 12:40 pm. No loss of pressure observed. SCS broke-down equipment and reinstalled blind flange on south end of 30" header at approx. Sta.14+55+/-. SCS discontinued work at approx. 1:15 pm.



Project Name: CCSWDC Phase I LFG Construction - Sequence 1			ruction - Sequence 1	Date: 5/10/2010	Day: Monday	
Project Owner	Sarasota County	,		Contractor: SCS Field Services		
HDR Project N	o. 096-124466	_		CQA: Don Whiting (HDR	)	
Weather Con	litions:			<u> </u>	-	
Temperature Weather			Weather		Precipitation	
Max.	Min.		Clear	Other		
88 F	70 F		Partly Cloudy		None	
Contractor's	Employees / Title			Equipment Used	<u> </u>	
Johnny Meier		Superintend		1 x Forklift		
Steve Miller		Laborer / Di		3 X Excavator – Kobelco,	Komateu	
Brandon Swift		Laborer / Di		2 X Truck F-250		
Fred Harlan		Laborer / Di		Flat bed F-450		
Dustin Adams		Laborer / Di	<del></del>	Bobcat		
Josh Adams		Laborer / Driver		2 X Articulated dump trucks		
Steve La		Laborer / Driver		1 x Dozer		
				Water Truck		
_						
_						
Work Perform	ed:					
• scs	arrived on site at	7:00 am				
• 7:40	am - SCS begar	dewatering e	excavation at sump S-5	using water truck and 3" pur	np in kelly well.	
• App	ox. 9:45 am SCS	began excav	ation of trench for 30" h	eader at Sta. 14+55+/- head	ing south.	
• SCS	cleaning up stoc	kpiles of exca	vated spoil, crushed ro	ck and concrete in yard north	of flare station.	
• 4:15	pm - SCS comp	eted excavati	orı of trench for 30" hea	der from Sta. 14+55+/- to su	mp S-5.	
• Plac	ed 30" header in f	trerich. Pipe w	vas approx. 2 ft. too lon	g. SCS excavated adjacent t	o pipe around bend from approx. Sta.	
16+0	00+/- to 17+50+/-	to increase ra	dius of trench to accom	modate additional length of	pipe.	
• App	ox. 7:00 pm SCS	completed in	stallation and connection	on of 30" header from Sta. 14	+55+/- to sump S-5 at approx. Sta. 18+50+/	
• SCS	was short (4) bo	ts for connect	ion of 30° header to su	mp S-5. Missing bolts located	d at top third of flanged connection.	
• Part	ally backfilled ove	er 30" header	from Sta. 14+55+/- to s	ump S-5 to prevent floatation	over night.	
• scs	discontinued bad	kfilling at 7:5	pm and departed the	site at 8:00 pm.		
•						
•						







Project Name: CCSWDC Phase I LFG Construction - Sequence 1	Date: 5/11/2010	Day: Tuesday	
Project Owner: Sarasota County	Contractor: SCS Field Services		
HDR Project No. 096-124466	CQA: Itza Rivera-Frisco (HDR)		
Weather Conditions:			
Tomporature		Descinitation.	

Temperature		Weather	Precipitation	
Max.	Min.	Clear	Other	
88 F	73 F	Sunny		

Contractor's Employe	es / Title	Equipment Used		
Johnny Meier	Superintendent	1 x Forklift		
Steve Miller	Laborer / Driver	3 X Excavator – Kobelco, Komatsu		
Brandon Swift	Laborer / Driver	2 X Truck F-250		
Fred Harlan	Laborer / Driver	Flat bed F-450		
Dustin Adams	Laborer / Driver	Bobcat		
Josh Adams	Laborer / Driver	2 X Articulated dump trucks		
Steve	Laborer / Driver	1 x Dozer		
	Laborer / Driver	Water Truck		

#### Work Performed:

- SCS laid 4" and 2" HDPE lines along side 30" HDPE pipe from Sta. 14+50 to Sump S-5.
- SCS backfilled and graded trench for 30", 4", and 2" pipes.
- SCS (Johnny) stated that they already installed the warning tape, 2 ft. below grade from S. of the 1<sup>st</sup> road crossing to Sump S-3 to next yard waste road crossing..
- FPL on-site to install/connect meter.
- SCS fused 14", 90 degree elbow to 14" HDPE pipe section.
- EC Contractors (Electrical Subcontractor) on-site to repair cut ground wire just north of flare station.
- R. Siemering (HDR) on-site reviewed the location of 2" drain line, drip traps, actuator valve connection to air compressor, and location of propane tank concrete slab with SCS.
- SCS installed flow meter. SCS will need to have electrical sub make electrical connection to flow meter.
- SCS finished bolting 30" HDPE pipe to Sump S-5.
- SCS installed 1" drain line from flame arrestor to drip trap and 1" drain line from flare to drip trap.
- SCS completed backfilling and compacting around Sump S-5 and over 30", 4", and 2" pipes on north side of road crossing.
- •
- •



Project Name: CCSWDC Phase I LFG Construction - Sequence 1			ruction - Sequence 1	Date: 5/12/2010	Day: Wednesday		
Project Owner:	Sarasota County	<u> </u>		Contractor: SCS Field Services			
HDR Project N	o. 096-124466			CQA: Itza Rivera-Frisco (	HDR)		
Weather Cond	litions:						
Temperature Weather		Weather	<del>-</del> .	Precipitation			
Max.	Min.		Clear	Other			
90 F	70 F		Sunny				
	_						
ontractor's E	Employees / Title	)		Equipment Used			
ohnn <b>y</b> Meier		Superintend	lent	1 x Forklift			
steve Miller		Laborer / Dr	iver	3 X Excavator - Kobelco,	Komatsu		
red Harlan		Laborer / Dr	iver	2 X Truck F-250			
Stevė		Laborer / Di	iver	Flat bed F-450			
Laborer		Laborer / Dr	iver	Bobcat			
		Laborer / Di	river	2 X Articulated dump trucks			
Laborer /		Laborer / Dr	iver	Water Truck			
	_	Laborer / Di	river				
Nork Perform	ed:						
Air te test s	ested 12 ft. sectionstarted at 8:15am	n of 14" HDPI and lasted fo	E from 36"x14" reducer r an hour. Starting pres	to Knock out pot by flare stat ssure = 10 psi; Finish pressu	ion (includes tee for future connection). Are = 10 psi. Test Passed.		
• scs	installed 12 ft. se	ection of 14" H	IDPE from 36"x14" redu	cer to Knock out pot by flare	station.		
• scs	graded swale fro	m Sta. 14+50	to Sump S-5.				
• SCS	completed backf	illing and grad	ling of south side of roa	d crossing to flare station.			
Air te     press	ested 4" HDPE fro sure = 10 psi. Te	om Wye to Su est Passed.	mp S-5. Air test started	d at 10:15am and lasted for a	n hour. Starting pressure = 10 psi; Finish		
• Air te 10 ps	ested 2" HDPE fro si; Finish pressur	om Wye to Fla e = 10 psi. Te	re Station connection.	Air test started at 11:20am a	nd lasted for an hour. Starting pressure =		
• scs	SCS cleaning up area north of the sump S-5.						
• scs	SCS grading around flare station.						
SCS and	forming 5 ft. sq. : its eastern edge	x 6" thick conc even with the	crete slab for the propar blower slab's eastern e	ne tanks. This slab is to be lo	ocated approx. 2 ft. south of the blower sla		
- 000	installed AA ft of	2º HDDE dra	in line to flare from know	ck out not			







Project Name: Co	CSWDC Phase	I LFG Const	ruction - Sequence 1	Date: 5/13/2010 Day: Thursday		
Project Owner: S	arasota County			Contractor: SCS Field Services		
HDR Project No.	096-124466			CQA: Itza Rivera-Frisco (HDR)		
Weather Conditi	ons:					
Temperature			Weather		Precipitation	
Max.	Min.		Clear	Other		
90 F	70 F			Partly Cloudly		
Contractor's Em	pleyess / Title	<u>.                                      </u>		Postero et Hand		
		Summa simta sa		Equipment Used		
Johnny Meier Steve Miller		Superintend		1 x Forklift		
		Laborer / Di		3 X Excavator – Kobelco, Komatsu	<u> </u>	
Brandon Swift		Laborer / Di		2 X Truck F-250		
Fred Harlan 		Laborer / Di		Flat bed F-450		
<u> </u>		Laborer / Driver		Bobcat Control of the		
	Steve			2 X Articulated dump trucks Water Truck		
		Laborer / Driver		valer ridex		
		Laborer / Briver				
<u> </u>					· ·	
		<del>-</del>		<del></del>		
		l				
Work Performed						
		ical Subconti	ractor) (2 pagnia) on site	making connection to flow meter.		
				stalling bollards on northwest side of F	Phase Llandfill Completed boring	
holes a which s	nd pouring 14 b structures/pipes	ollards (4 ard along the slo	ound leachate cleanout; opes get bollards installe	U-trap U-3; and 3 valve pits on west around them. Sarasota County/HE res/pipes along the slope will get bolk	side). There was confusion as to DR/SCS will need to have a	
SCS po	oured 5 ft. sq. x	6" thick conc	rete slab for the propan	e tanks.		
• SCS in 2010 to	stalled the sump	pumps into	condensate sumps S-2 the pumps.	, S-3, S-4 and S-5. SCS noted that C	QED will be out on Monday, May 17	
Hyatt S	Surveyors on-site	to as-built r	em.			
SCS w	atering sod on s	outh slope.				
• SCS cc	ontinued to insta	ll 2" drain lin	e around flare station.			
•						
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Project Name: CCSWDC Phase I LFG Construction - Sequence 1			uction - Sequence 1	Date: 5/14/2010	Day: Friday	
Project Owner: Sarason	a County			Contractor: SCS Field Services		
HDR Project No. 096-1	24466			CQA: Jason Timmons (HDR)		
Weather Conditions:						
Temperature			Weather		Precipitation	
Max.	Min.		Clear	Other	none	
89 F	74 F		Sunny			
0				<u> </u>		
Contractor's Employe		I		Equipment Used		
Johnny Meier		Superintend	ent 	2 X Truck F-250		
Steve Miller		Laborer / Dri	ver	Flat bed F-450		
Brandon Swift		Laborer / Dri	ver	Bobcat		
Fred Harlan		Laborer / Dri	ver	Water truck		
Ray Perez		Laborer / Dri	ver	Utility Cart (John Deere)		
		Laborer / Dri	ver		<u> </u>	
		Laborer / Dri	ver			
		Laborer / Dri	ver			
Work Performed:						
HDR arrived	onsite @7	:30AM				
Met with SCS	S (J. Meier	) @ 9:00AM.	Discussed preliminary	punch list items.		
			ea at leachate storage M. Superintendent and		. Removed sediment from sump and	
SCS installed Started at 9:4	remaining	g wellheads ( npleted at 10	2 laborers) including re:30AM.	mote wellheads for leachate	collection cleanouts (LCO-2S and 1S).	
HDR request from flare dra positive drain	ain. Drain p	ame arrestor pipes installed	drain line be moved und d at grade. SCS moved	demeath air line at northwes drain to undemeath air line.	t comer of skid to allow positive drainage SCS stated that drain line did not require	
SCS installed connectors a	SCS installed ½" copper tube/propane line from flare stake to propane tank pad on east side of flare skid. Used flared end connectors at ends and at union approximately 18'-2" from east end of flare skid concrete pad. Line completed by 11:30AM.					
HDR returner	d to site at	12:30PM. S	CS returned at 1:30PM			
Sarasota Co	unty filled	and delivered	two propane tanks to	the site.		
SCS anchori	ng skid to	concrete pad	using epoxy anchor bo	olts and sealing space betwe	en skid and concrete.	
SCS planned	to comple	ete air lines a	nd anchoring skid.			
HDR left site	at 2:00PM	1.				



HDR left site at 10:45AM.

Project Name: CCSWDC Phase I LFG Construction - Sequence 1			ruction - Sequence 1	Date:5/15/2010	Day: Saturday			
Project Owner: Sarasota County  HDR Project No. 096-124466				Contractor: SCS Field Services				
				CQA: Jason Timmons (HDR)				
Weather Cond	itions:							
Temperature			Weather		Precipitation			
Max.	Min.		Clear	Other	None			
88F	74 F		Sunny					
Contractor's E	mployees / Title			Equipment Used				
Johnny Meier		Superintend	lent	1 X Excavator – Kobelco				
Steve Miller		Laborer / Dr		2 X Truck F-250				
Brandon Swift		Laborer / Dr	iver	Flat bed F-450				
Fred Harlan		Laborer / Di		Bobcat				
Ray Perez		Laborer / Dr	iver	2 X Articulated dump trucks				
·				1 x Dozer				
				Water Truck				
				Utility Cart (John Deere)				
Work Performe								
• HDR	arrived @ 7:45A	M						
	•			ines from air header at west side	of flare skid to the automatic shutoff tat base.			
• scs	arrived at flare sl	rid @ 8:00AN	l.					
• scs	completed moun	ting propane	tanks on concrete pad.					
tighte		, applied Tefle	on tape at propane tank		two leaks at each end of connection, at 18'-2" from east side of flare skid was			
	SCS began mounting QED pump control boxes at condensate sumps using 4"x4"x8' treated wood posts and steel mounts. Started at 8:45AM. Completed mounting boxes @10:15AM							
• scs	SCS watering east side of Phase I sod with water truck.							
trucks	SCS began removing soil piles from 30" main header trench installation and hauling to Class I working face (1 excavator, 2 off-road trucks (JD and JBC), 1 dozer. SCS began at 10:20AM through the remainder of the day for site cleanup and prep for Monday walkthrough.							
				ite at 9:00AM. Completed power connections at air compressor p	wire pulls for flare and flow meter from anel.			
• scs	(J. Meier) stated	that they wou	ıld complete soil remov	al and site cleanup for the remind	der of the day.			
HDR on sk		would compl	ete thermocouple instal	lation for flare. SCS and EC Con	tractors could not locate thermocouple			
	UII SKIU.							



Project Name: 0	CCSWDC Phase	I LFG Constr	ruction - Sequence 1	Date: 5/17/2010	Day: Monday	
Project Owner:	Sarasota County			Contractor: SCS Field Services		
HDR Project No	0. 096-124466			CQA: Carlos Restrepo (HDR)		
Weather Condi	tions:					
Temperature Weather			Weather		Precipitation	
Max.	Min.		Clear	Other	·	
83 F	73 F		Partly Cloudy	Rain	0.05 inches	
Contractor's E	mployees / Title			Equipment Used	•	
Johnny Meier		Superintend	lent	1 x Forklift		
Steve Miller		Laborer / Dr	iver	1 X Truck F-250		
Brandon Swift		Laborer / Dr	iver	Flat bed F-450		
Ray Perez		Laborer / Dr	iver			
	:					
		-				
		-				
		_				
			<u> </u>	_		
Work Performe						
	arrived on site at					
	_			18" and 24" header valve	pits at the southeast corner. Extensions for	
	ample port lines t		<del></del>			
			e station before start-up			
	on site to test pu	<u> </u>		20.004	AL SALADT Division and London	
			riine bali valves at GW-2	zo. Gvvs were designed w	vith a ¾" NPT Plug for water level access. HDR	
	oved change to 1		talling bollards on north	and east slope	•	
	left the site at 4:0		raining poliatos on north	and cast slope		
		- PIII				
	g Progress Meet	ing #17, the f	ollowing was addressed			
			ot affect work progress			
	to start with punc	<del>-</del>				
	<u>_</u>		s at all header valve pits	3		
	to review truck lo					
• SCS	to provide check	list of spare /	extra parts to County			
		•				



Project Name	· CCSWE	C Phase	LLEG Const	ruction - Sequence 1	Date: 5/18/2010	Day: Tuesday	
Project Name: CCSWDC Phase I LFG Construction - Sequence 1 Project Owner: Sarasota County							
		<u>·</u>			Contractor: SCS Field Services		
HDR Project No. 096-124466					CQA: Carlos Restrepo (HD		
Weather Co	nditions:						
Temperature Weather			Weather		Precipitation		
Max.		Min.	in. Clear		Other		
82 F		75 F		Partly Cloudy		,	
Contractor's	Employe	es / Title			Equipment Used		
Johnny Meie	•		Superintend	lent	1 X Excavator – Kobelco, K	Komatsu	
Steve Miller			Laborer / Dr	iver	1 X Truck F-250		
Brandon Swi	t		Laborer / Dr	iver	Flat bed F-450		
Ray Perez			Laborer / Dr	iver	2 X Articulated dump truck	s	
_	_	_					
			-				
	_						
			<u>L</u> ,				
Work Perfor	med:						
• SC	S arrived	on site at	7:30 am				
• SC	S started	replacing	the QED flan	ge connectors and inst	alling bubbler system for Sump	ps # 3,4,5. Sump # 2 QED flange	
Co	nnector ar	nd bubble	r system to b	e replaced at a later da	te		
• Sh	aw on site	continue	s adjustment	s at flare station before	start-up this afternoon		
• HD	R proceed	ded to tak	e initial gas r	eadings at all GWs. We	liheads left open before flare s	station start up	
• HC	R informe	ed SCS the	at airline ball	valves at GW 26 / 18 w	vere leaking. Also noted that va	alves at forcemain valve pit (southeast	
Co	mer – aloi	ng the 24°	header) and	valve at the airline valv	ve pit (north slope) were in the	opposite direction. SCS will correct	
• Sh	aw comple	eted the fl	are station st	art up. Flare running ar	ound 2:00 pm		
• SC	S started	moving ex	cess backfill	north of the flare statio	n to Phase I		
• Su	bcontracto	or finished	installing bo	llards on north and east	t slope		
• sc	S left the	site at 4:3	0				
					<del>-</del>		



Project Name: CCSWDC Phase I LFG Construction - Sequence 1					Date: 5/19/2010	Day: Wednesday	
Project Owner: Sarasota County					Contractor: SCS Field Services		
HDR Project No. 096-124466					CQA: Carlos Restrepo (HD	R) .	
Weather Cor	nditions:				1		
Temperature Weather				Weather		Precipitation	
Мах.	Min. Clear		Clear	Other			
83 F	73 F Sunny			Sunny	-		
		_		-			
Contractor's	Employees /	Title			Equipment Used		
Johnny Meie	•	Supe	erintende	ent			
Brandon Swit	t	Labo	orer / Dri	ver	1 X Truck F-250		
Ray Perez		Labo	orer / Dri	ver	Flat bed F-450		
				<del>-</del>		<del>-</del>	
				·	+		
				<del>-</del>			
						•	
			_	_	-		
	_	_					
				<del>-</del>		<del></del>	
Work Perfor			_	<del>-</del>			
	S arrived on si	ite at 7:30 :	am				
				r airline valve pits at so	witheast corner		
					g 24" header) placed in corre	of direction, HDR verified.	
		<del></del>		alling bollards on south		and an obtain the first form out	
				eadings and adjusting (	<u> </u>		
	aw on site conf						
• sc	S removing ha	y bales at	downch	utes and picking up tras	sh .		
• HD	R informed SC	S that GW	/s 13 / 1	5 / 16 were not connec	ed to the forcemain line instea	ad of lateral line. SCS made changes	
♦ SC	S started movi	ing crushed	d gravel	to the flare station. Gra	vel to be placed on Friday		
	S started placi		or all GV	Vs.	:		
* SC	S left the site a	at 4:30 pm					



Project Name: CCSW	VDC Phase I LFG Const	ruction - Sequence 1	Date: 5/20/2010	Day: Thursday					
Project Owner: Saras	sota County		Contractor: SCS Field Services						
HDR Project No. 096	-124466		CQA: Carlos Restrepo (HDR)						
Weather Conditions	:								
Temperature		Weather		Precipitation					
Max.	Min. Clear		Other						
88 F	73 F		Partly Cloudly						
Contractor's Employ	yees / Title		Equipment Used						
Johnny Meier	Superintend	lent ·	1 x Forklift						
Ray Perez	Laborer / Di	iver	1 X Truck F-250						
			1 x dump truck						
Work Performed:			:						
SCS arrive	d on site at 7:00 am								
Subcontract	ctor constinues installing	bollards on south slope	and around Sumps						
Shaw provi	ided training on flare ope	rations to County and H	DR						
SCS contin	nues installing 1" ball val	es for forcemain and air	rline risers at each GW						
	nued with additional gas		GWs						
	ed north perimeter swale								
			the main drain line heading to Su						
		n yard waste area and s	tarted moving remaining backfill to	the maintenance building area					
• SCS left th	e site at 4:30 pm								
		<del></del>							



Project Name: CCSWDC Phase I LFG Construction - Sequence 1				Date: 5/21/2010	Day: Friday		
Project Owner: Sarasota	Project Owner: Sarasota County				Contractor: SCS Field Services		
HDR Project No. 096-12	24466			CQA: Carlos Restrepo (HDR)			
Weather Conditions:		_	<del>-</del>				
Temperature Weather					Precipitation		
Max.	ax. Min. Clear			Other	none		
87 F	37 F 71 F Sunny						
Contractor's Employee	es / Title			Equipment Used			
Brandon Swift		Laborer / Dri	ver	1 x excavator			
Ray Perez		Laborer / Dri	ver	Flat bed F-450			
				Skidster			
	_						
	_						
		_					
		_			·		
Work Performed:							
SCS arrived or	n site at 7	7:30 am					
Started placin	g fabric a	round flare st	tation then gravel on top	<u> </u>			
Shaw on site to	to adjust t	he auto diale	r system at the flare sta	tion. System is working .	·		
SCS started co	onnecting	1" ball valve	es to 2"x1" and 4"x1" red	ucers for remaining risers. Insta	llation at wells to be conducted		
tomorrow Satu	urday				,		
			eadings and adjusting C	6Ws			
SCS left the s	ite at 4:30	) pm					
♦ HDR will not	he on elt	e Saturday !	May 22 2010				
	<u> </u>			line risers to remaining GWs			
HDR will verify				and hadra to remaining GVVS			
				_			



Project Name: C	CSWDC Phase	I LFG Constr	ruction - Sequence 1	Date: 5/24/2010	Day: Monday		
Project Owner: Sarasota County				Contractor: SCS Field Se	Contractor: SCS Field Services		
HDR Project No	HDR Project No. 096-124466				HDR)		
Weather Condi	tions:						
Temperature Weather			Weather		Precipitation		
Max.	Min.	Min. Clear		Other			
88 F	72 F	_	Sunny				
Contractor's Er	nployees / Title	•		Equipment Used			
Johnny Meier	_	Superintend	lent	1 x excavator	<u> </u>		
Brandon Swift		Laborer / Dr	iver	1 X Truck F-250			
Ray Perez		Laborer / Dr	iver 	Flat bed F-450			
				1x dump truck			
				1x skidster			
	_						
		•					
Work Performe	d:						
• SCS r	emoved LCO-4	S solar flare. L	ateral for remote wellh	ead not installed. LCO riser	was capped.		
• SCS	continues dressi	ing up area ald	ong the 30" header (eas	st of yard waste area)			
• scs	placed pipe man	kings for 30° h	neader				
			d in the airline ball valv				
• SCS i	nstalling 1" ball	valves for forc	emain and airline risers	s at each GW			
			· ·	-			
	·						
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Project Name: CCSWDC Phase I LFG Construction - Sequence 1			uction - Sequence 1	Date: 5/25/2010	Day: Tuesday	
Project Owner: Sarasot	ta County			Contractor: SCS Field Services		
HDR Project No. 096-124466				CQA: Carlos Restrepo (HDR)		
Weather Conditions:						
Temperature			Weather		Precipitation	
Max.	Min.		Clear	Other		
88 F	68 F	_	Partly Cloudy	Rain PM		
Contractor's Employe	es / Title			Equipment Used	,	
Johnny Meier		Superintend	ent	1 X Forklift		
Brandon Swift		Laborer / Dri	iver	1 X Truck F-250		
Ray Perez		Laborer / Dri	iver	Flat bed F-450	<del></del> -	
		_				
					<u> </u>	
			-			
		_	<del></del>			
				,		
Work Performed:						
SCS replace	d QED flan	ge adapter a	and installed bubbler syst	em at Sump # 2	_	
AJAX (Subco	ontractor) o	n site to mea	asure road crossings requ	uiring pavement		
Sod company	y on site co	ntinues sod	ding east perimeter swale	•		
SCS started						
			ute – south slope		<del></del>	
• HDR conduc	ted LFG tra	aining and pr	resentation to County		<u> </u>	
					-	
				_	<u> </u>	
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-					<del>_</del>	
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Project Name: CCSWDC Phase I LFG Construction - Sequence 1				Date: 5/26/2010	Day: Wednesday	
Project Owner: S	Sarasota County			Contractor: SCS Field Services		
HDR Project No.	. 096-124466	_		CQA: Carlos Restrepo (HDR)		
Weather Condit	tions:					
Temperature Weather			Weather		Precipitation	
Max.	Min.		Clear	Other		
84 F	69 F		Sunny	·		
	_				· ·	
Contractor's En	nployees / Titie			Equipment Used		
Johnny Meier		Superintend	lent			
Brandon Swift		Laborer / Di	river	1 X Truck F-250		
Ray Perez		Laborer / Di	river	Flat bed F-450		
	_					
Work Performe	d:					
Sod co	ompany on site o	continues soc	ding east perimeter sw	ale, Phase I southeast corner, few	areas on south slope needing	
additio	onal sod					
• HDR a	and County cond	lucted well tu	ning training			
• Subco	ontractor on site	continues ins	talling locator bollards for	or end of pipe, start/ end of CMPs	· · · · · · · · · · · · · · · · · · ·	
• Saras	ota Fencing (Sul	bcontractor)	on site to measure fence	e required around flare station		
			cemain leaks at surnps -			
- SCS i	nstalled and con	npleted all 1"	ball valves for forcemain	n / airline risers at each GW		
				<del>_</del>		
			<del></del>			
		<del></del>				



Project Name: CCSWDC Phase I LFG Construction - Sequence 1					Date: 5/27/2010	Day: Thursday	
Project (	Owner: Sarasot	a County			Contractor: SCS Field Services		
HDR Pro	oject No. 096-1	24466			CQA: Carlos Restrepo (HDR)		
Weathe	r Conditions:						
Temperature Weather			Weather		Precipitation		
Мах.		Min.		Clear	Other		
87 F		74 F					
0	Anda Baadaa	/ 7741-			Etoward Hand	<u> </u>	
	tor's Employe	es / litie	l		Equipment Used	<del></del>	
Johnny I			Superintend		1 x Forklift		
Brandon	Swift		Laborer / Dr	iver	1 X Truck F-250		
Ray Per	ez		Laborer / Dr	iver	1 x dump truck	<del></del>	
_					-		
_							
Work P	erformed:				_	<u> </u>	
•	SCS continue	es fixing s	mall air / forc	emain leaks at sumps –	southeast comer. HDR informed SCS	S that system will not be accepted	
					nufacturer) for butterfly valves. SCS w		
					adapters. No additional cost to Count		
•	SCS installed	d 1" pvc ca	aps for ball va	alves at forcemain / airlin	e risers at each GW		
•	Sarasota Fe	ncing (Sub	contractor) o	on site started ferice insta	allation around flare station		
•	HDR continu	es adjusti	ng GWs				
•	SCS cleaning	g staging a	агеа.				
•	SCS proceed	ded to wat	er sod along	the east perimeter swale	e, Phase I southeast corner		
*					Monday May 31. SCS Will return o		
	SCS scheduled to complete asphalt paving, well / sump labels, replace/fix leaking valves at sumps						



Project Name:	CCSWDC Phase	I LFG Const	ruction - Sequence 1	Date: 6/1/2010	Day: Tuesday	
Project Owner:	Sarasota County	у		Contractor: SCS Field Services		
HDR Project No	o. 096-124466			CQA: Carlos Restrepo (HD	DR)	
Weather Cond	litions:					
Temperature Weather			Weather		Precipitation	
Max.	x. Min. Clear		Clear	Other		
88 F	75 F Sunny					
	'					
Contractor's E	mployees / Title	9		Equipment Used		
Johnny Meier		Superintend	lent	1 X Truck F-250		
Brandon Swift		Laborer / D	river	1 X Truck F-450		
			_			
			_			
Work Perform	ed:					
• scs	started replacing	g flange adapt	ers with access ports fo	r each GW		
• Sara	sota Fence (Sub	contractor) co	mpleted installation of t	he fence around flare station		
• scs	installed LCO la	bels				
• scs	installed quick c	onnects at 18	header sump (north sle	ope)		
			_			
	_					
			<del>-</del>			
				<del>-</del>		



Project Name: CCSWDC Phase I LFG Construction - Sequence 1				Date: 6/2/2010	Day: Wednesday
Project Owner	: Sarasota C	ounty		Contractor: SCS Field Services	
HDR Project No. 096-124466				CQA: Carlos Restrepo (HDR)	
Weather Cond	ditions:				
Temperature			Weather		Precipitation
Max.	Min	  .	Clear	Other	
88 F	75	F	Sunny		
Contractor's I	Employees /	Title		Equipment Used	
Johnny Meier		Superintend	ent	1 X Truck F-250	
Brandon Swift		Laborer / Dri	iver	1 X Truck F-450	
				•	
			•		
Work Perform	red:				
• Ajax	(Subcontrac	tor) on site paving	road crossings. A mix o	desing S-1-R used for pavement inst	ead of SP-9.5 as specified. HDR
appr	oved change	e. A 4" thick pavem	ent placed at all road cr	rossings. Existing pavement was 2"	thick. Ajax sprayed limerock with
			lift compacted with ro	llers	
• SCS	continues s	tencil of sumps and	l cleaning staging area		
			<u> </u>		
		_			- <del></del>
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		_	_		



Project Name: CCSWDC Phase I LFG Construction - Sequence 1			ruction - Sequence 1	Date: 5/26/2010	Day: Thursday	
Project Owner: Sarasota County				Contractor: SCS Field Service	es	
HDR Project No. 096-124466				CQA: Carlos Restrepo (HDR)		
Weather Cond	itions:			,		
Temperature	_		Weather		Precipitation	
Max.	Min.		Clear	Other		
87 F	77 F			Partly Cloudy		
,		,	•			
Contractor's E	mployees / T	îtle		Equipment Used		
Johnny Meier		Superintend	lent	1 X Truck F-250		
Brandon Swift		Laborer / Dr	iver	1 X Truck F-450		
_			-			
				•		
Work Performe	ed:					
• scs	fixing air leak	s at 2" airline val	ve pits (southeast corne	r) and all airline risers for GWs	on north and east slopes	
• HDR	and SCS insp	pected constructi	on before final walk thro	ough		
				_	· 	
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<u>:</u>				·		
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Project Name: CO	SWDC Phase	LFG Constr	uction - Sequence 1	Date: 5/27/2010	Day: Friday		
Project Owner: Sa	arasota County			Contractor: SCS Field Services	Contractor: SCS Field Services		
HDR Project No.	096-124466			CQA: Carlos Restrepo (HDR)			
Weather Conditi	ons:						
Temperature Weather			Weather		Precipitation		
Max.	lax. Min.		Clear	Other			
88 F	78 F			Partly Cloudy	-		
	'						
Contractor's Em	ployees / Title			Equipment Used			
Johnny Meier		Superintend	ent	1 X Truck F-250			
Brandon Swift		Laborer / Dr	iver	1 X Truck F-450	-		
•	_		_				
,					· · · · · · · · · · · · · · · · · · ·		
				-	<u> </u>		
				-			
					-		
Work Performed	 l:				<del></del>		
Hvdros	eedina (subcon	tractor) on si	te. Hvdroseeding along	the shoulder of yard waste access ro	ead, area south of yard waste, and		
_	chain link fence			·	<u> </u>		
• HDR a	nd SCS conduc	ted one more	inspection of site				
SCS re	placed ball valv	es at airline	valve pits (southeast co	rner). No air leaks present			
• SCS co	ompleted all pur	nch list items.	As-builts and close out	documents are still pending.			
HDR c	onducted well tu	ıning			_		
			•				
				<u> </u>	<del></del>		
				<u> </u>	<del></del>		
		,					

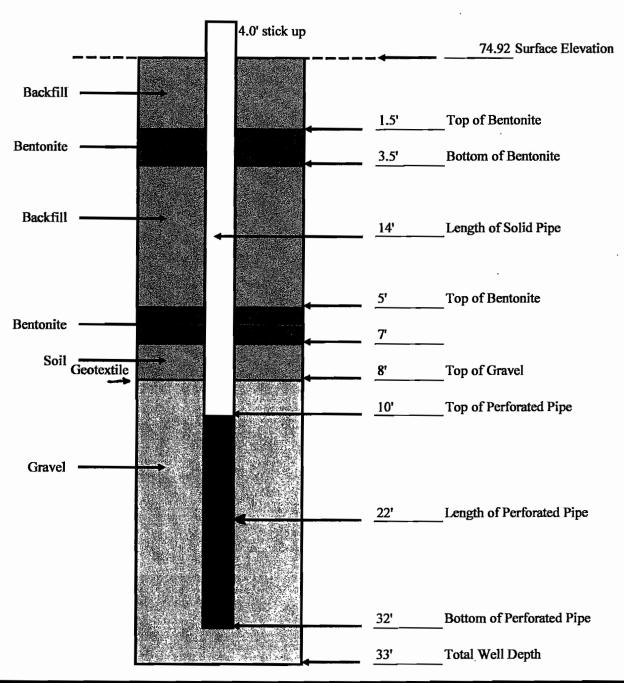
ENVIRONMENTAL PROTECTION

AUG 13 2010

SOUTHWEST DISTRICT

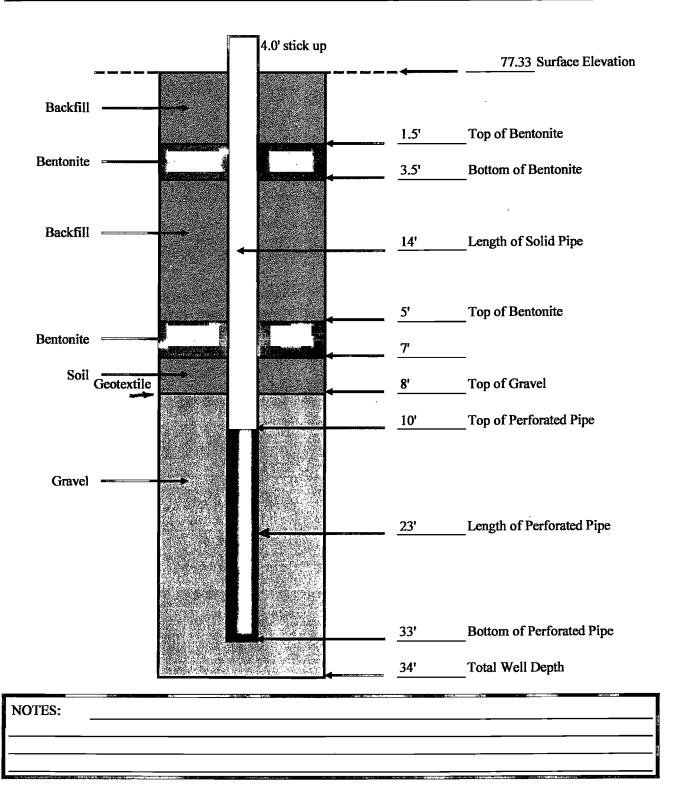
# ATTACHMENT C GAS EXTRACTION WELL INSTALLATION AND DRILLING LOGS

Date	02/04/10	Boring Depth	33'
Project Name	SARASOTA COUNTY	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR-11
Well Number	GW-1	Pipe Diameter	6"

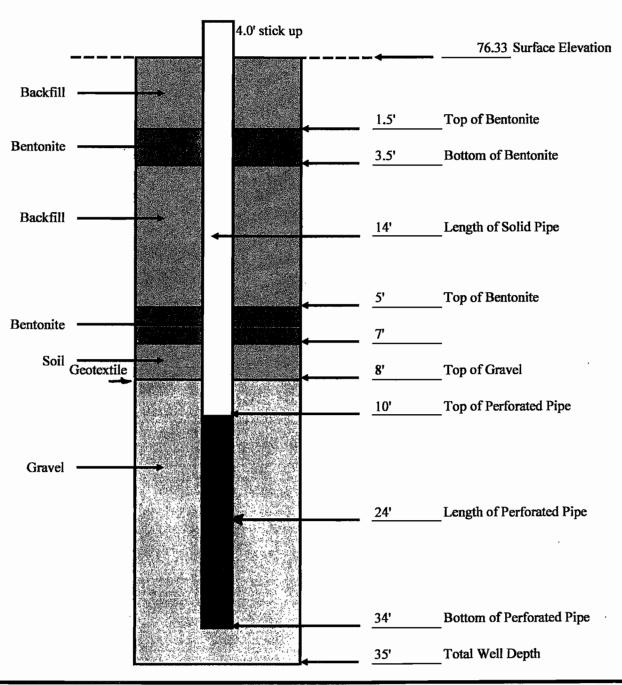


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Date	02/04/10	Boring Depth	34'
Project Name	SARASOTA COUNTY	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR-11
Well Number	GW-2	Pipe Diameter	6"

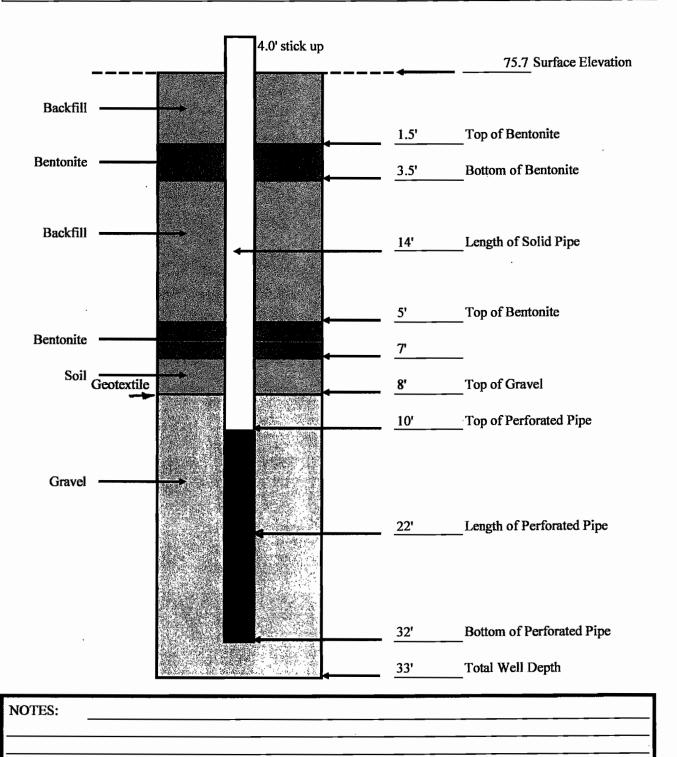


Date	02/05/10	Boring Depth	35'
Project Name	SARASOTA COUNTY	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR-11
Well Number	GW-3	Pipe Diameter	6"

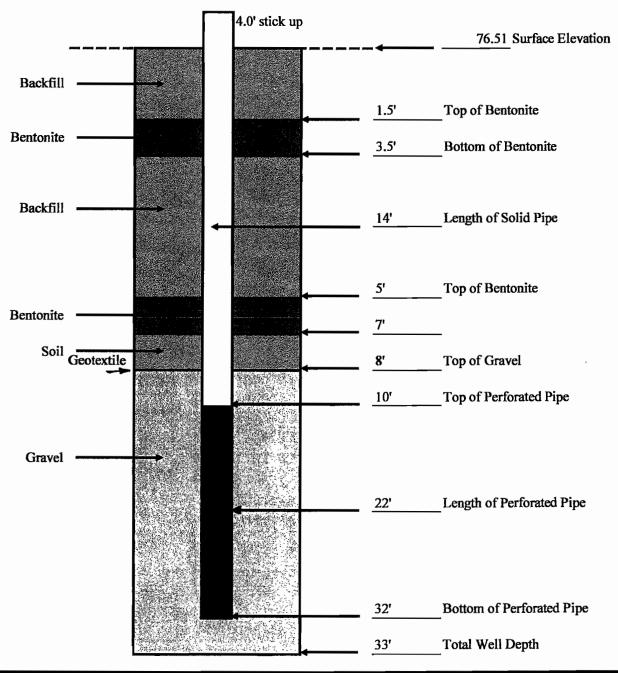


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Date	02/05/10	Boring Depth	33'
Project Name	SARASOTA COUNTY	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR-11
Well Number	GW-4	Pipe Diameter	6"

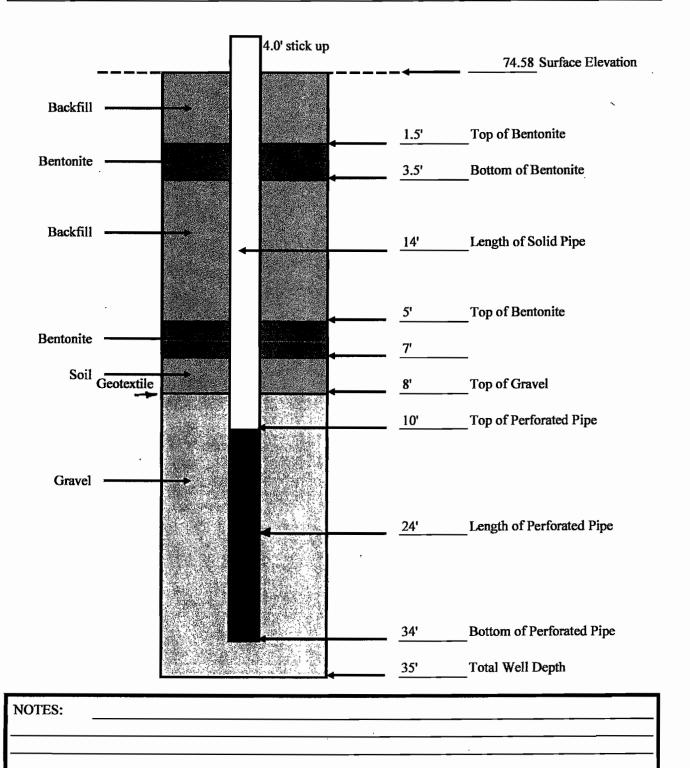


Date	02/05/10	Boring Depth	33'
Project Name	SARASOTA COUNTY	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR-11
Well Number	GW-5	Pipe Diameter	6"

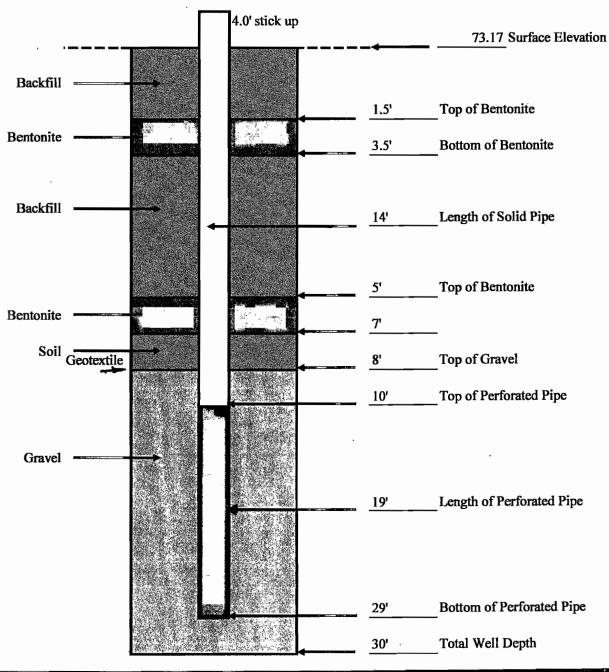


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Date	02/05/10	Boring Depth	35'
Project Name	SARASOTA COUNTY	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR-11
Well Number	GW-6	Pipe Diameter	6"

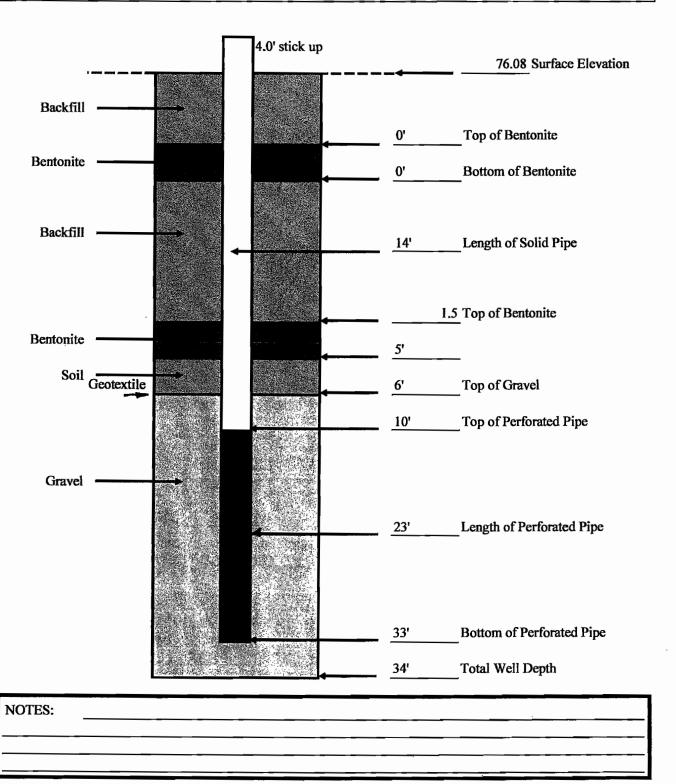


Date	02/03/10	Boring Depth	30'
Project Name	SARASOTA COUNTY	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR-11
Well Number	· GW-7	Pipe Diameter	6"

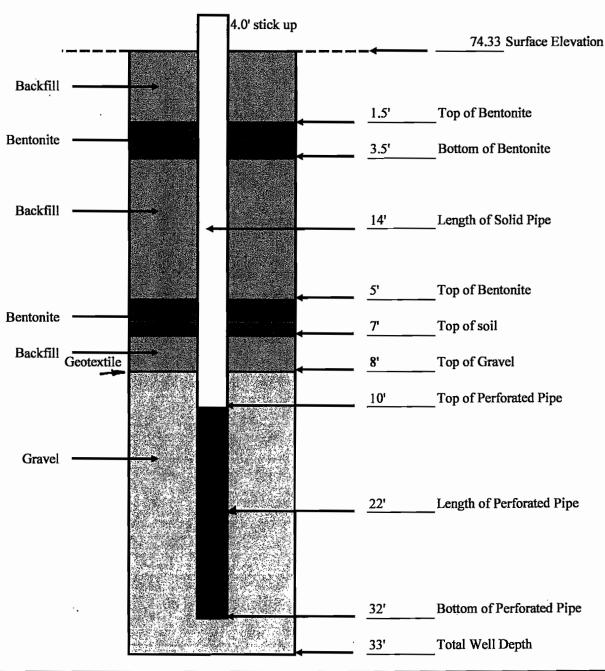


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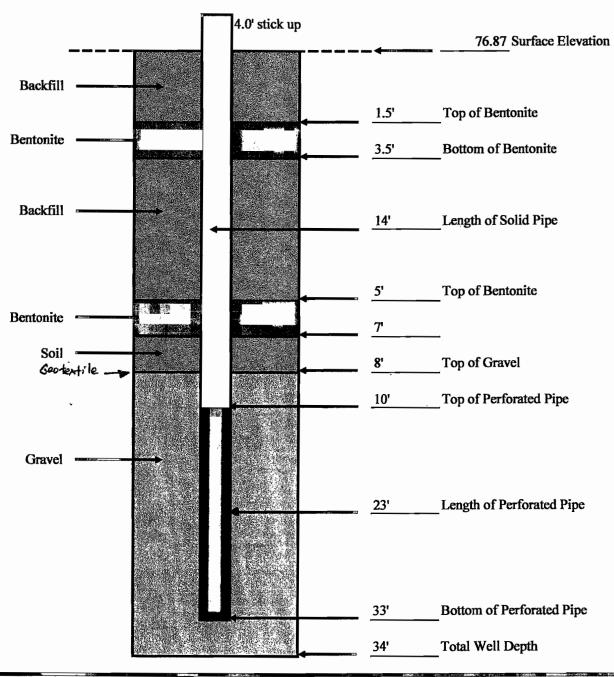
Date	02/03/10	Boring Depth	34'
Project Name	SARASOTA COUNTY	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR-11
Well Number	GW-8	Pipe Diameter	6"



Date .	01/28/10	Boring Depth	33'
Project Name	Sarasota County	Boring Diameter	_36"
Project Number	12209031	Pipe Spec.	SDR 11
Well Number	GW-9	Pipe Diameter	6"

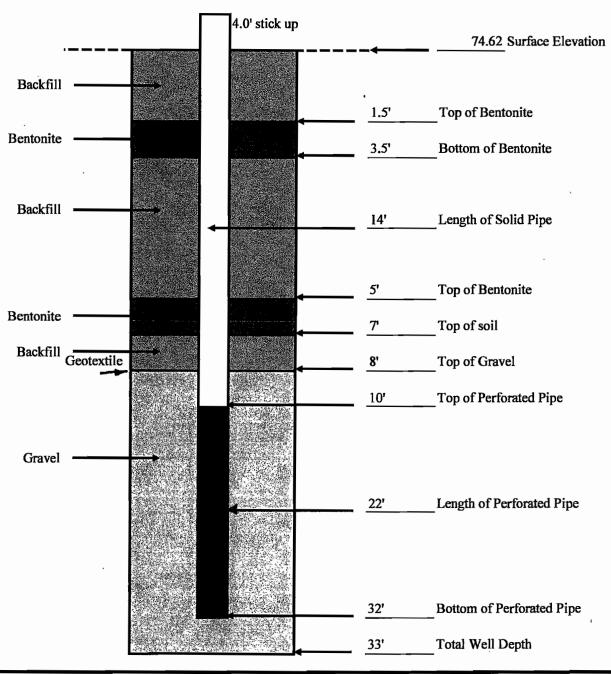



Date	01/28/10	Boring Depth	34'
Project Name	SARASOTA COUNTY	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR-11
Well Number	GW-10	Pipe Diameter	6"



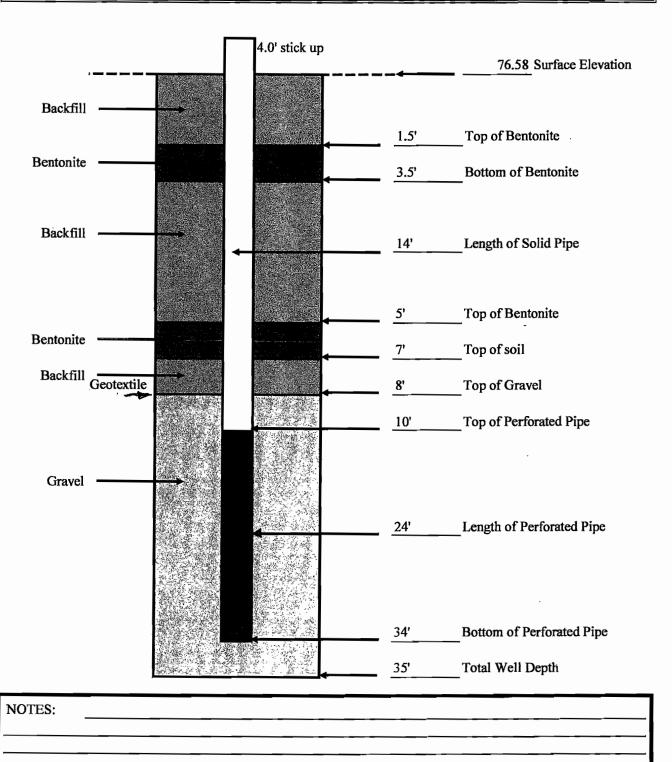
NOTES:	 		

Date	01/29/10	Boring Depth	33'
Project Name	Sarasota County	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR 11
Well Number	GW-11	Pipe Diameter	6"

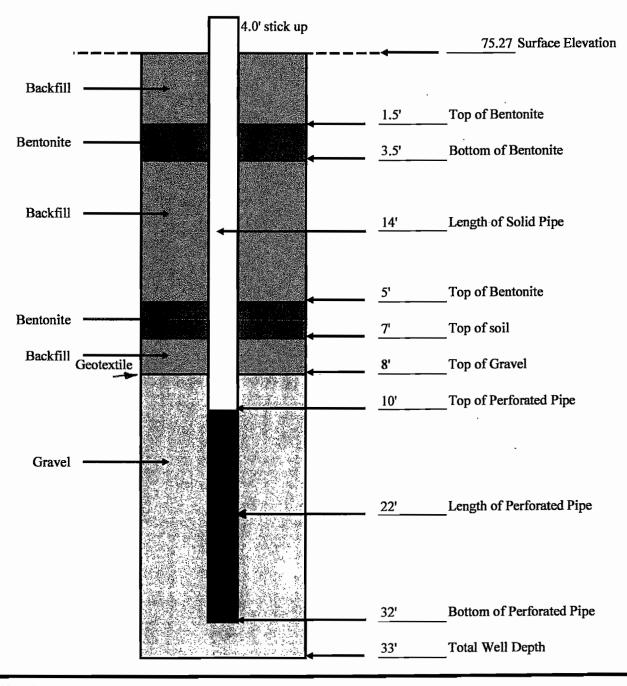


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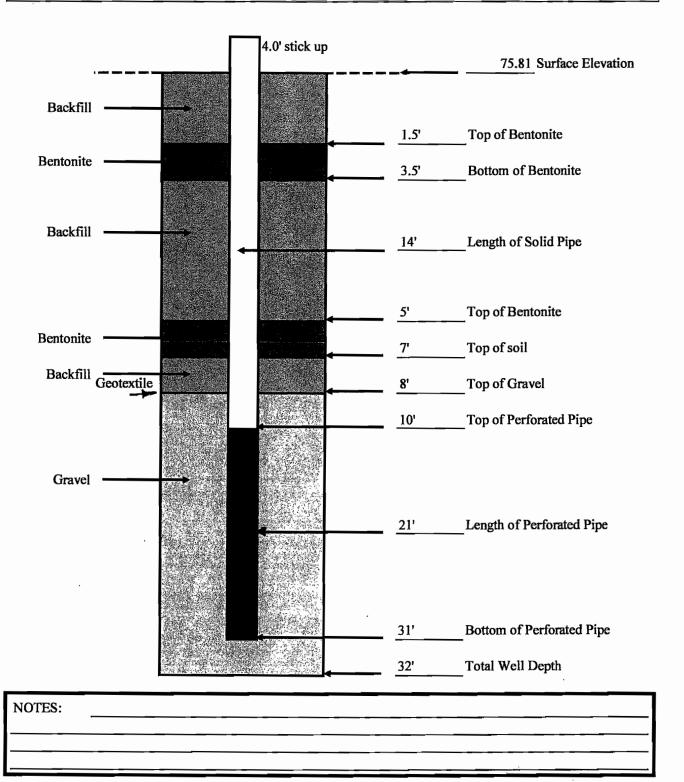
Date	01/29/10	Boring Depth	35'
Project Name	Sarasota County	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR 11
Well Number	GW-12	Pipe Diameter	6"



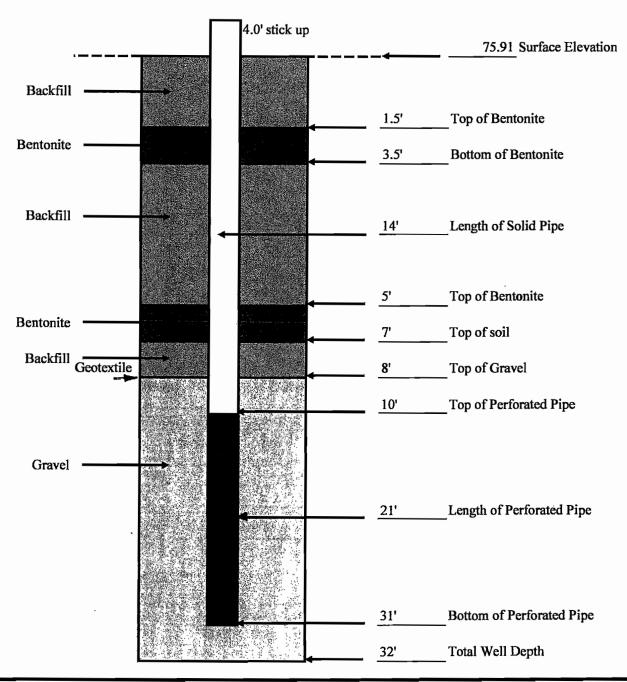
Date	01/29/10	Boring Depth	33'
Project Name	Sarasota County	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR 11
Well Number	GW-13	Pipe Diameter	6"



Date	01/28/10	Boring Depth	32'
Project Name	Sarasota County	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR 11
Well Number	GW-14	Pipe Diameter	6"

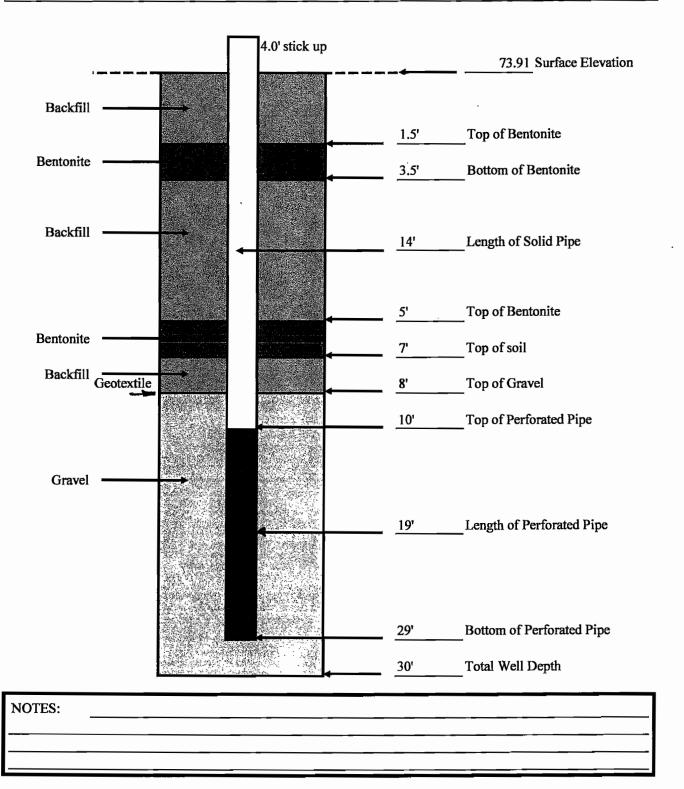


Date	01/29/10	Boring Depth	32'
Project Name	Sarasota County	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR 11
Well Number	GW-15	Pipe Diameter	6"

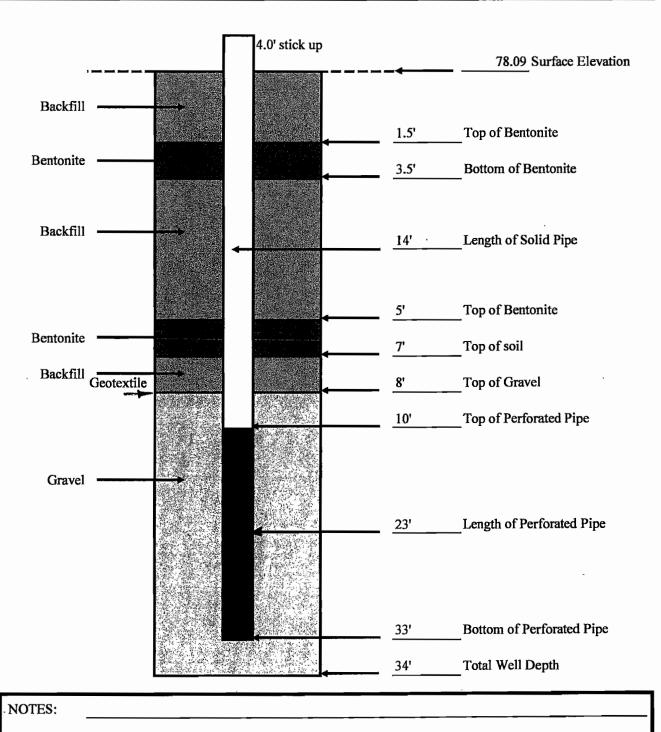


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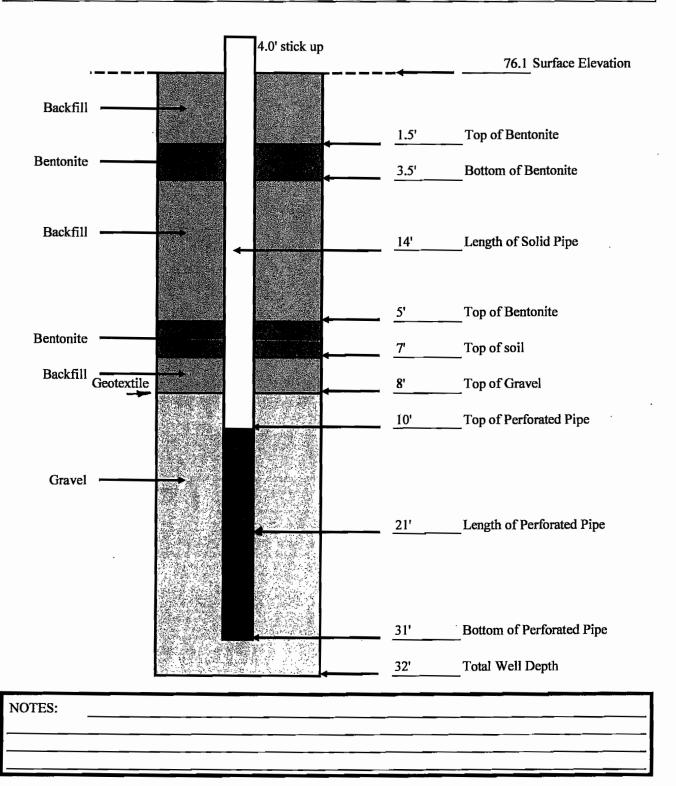
Date	01/30/10	Boring Depth	30'
Project Name	Sarasota County	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR 11
Well Number	GW-16	Pipe Diameter	6"



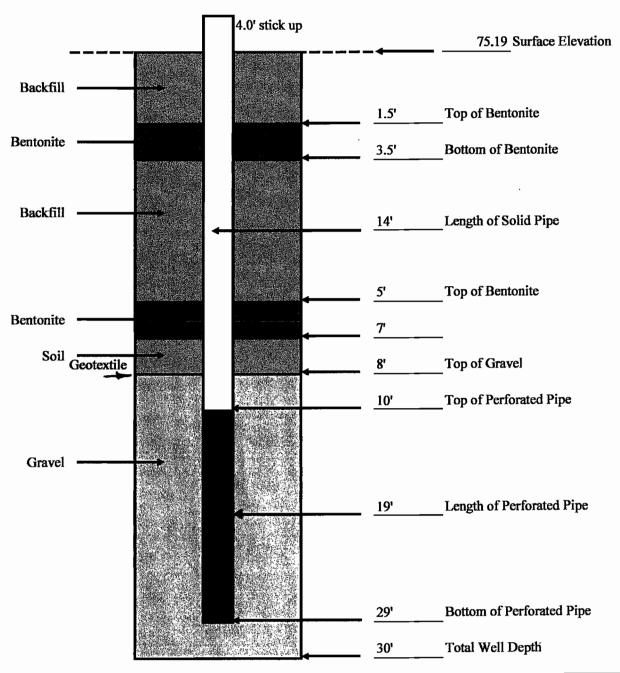
Date	01/30/10	Boring Depth	34'
Project Name	Sarasota County	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR 11
Well Number	GW-17	Pipe Diameter	6"



Date	01/30/10	Boring Depth	32'
Project Name	Sarasota County	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR 11
Well Number	GW-18	Pipe Diameter	6"

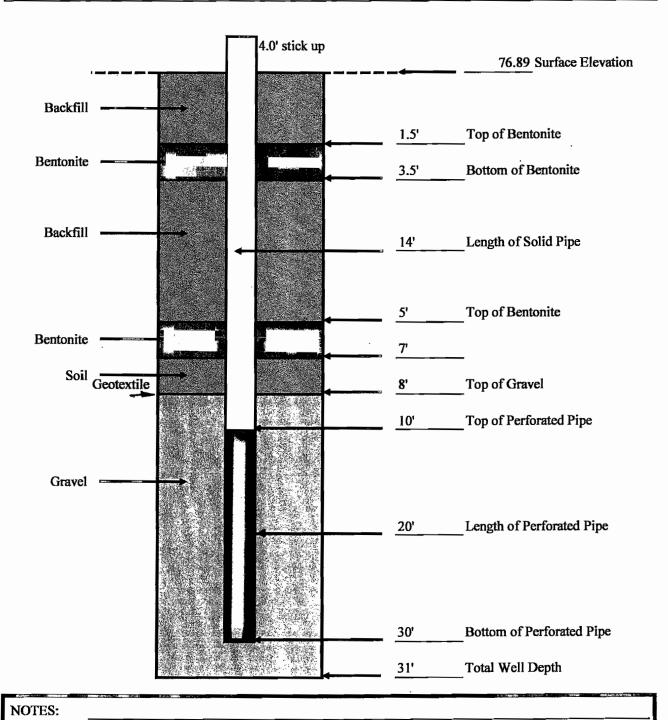


Date	02/04/10	Boring Depth	30'
Project Name	SARASOTA COUNTY	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR-11
Well Number	GW-19	Pipe Diameter	6"

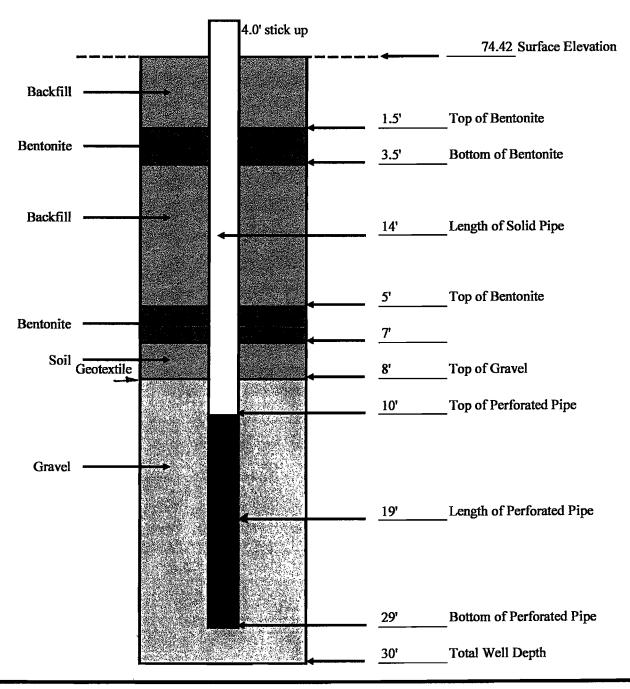


NOTES:		 	
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Date	02/03/10	Boring Depth	31'
Project Name	SARASOTA COUNTY	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR-11
Well Number	GW-20	Pipe Diameter	6"

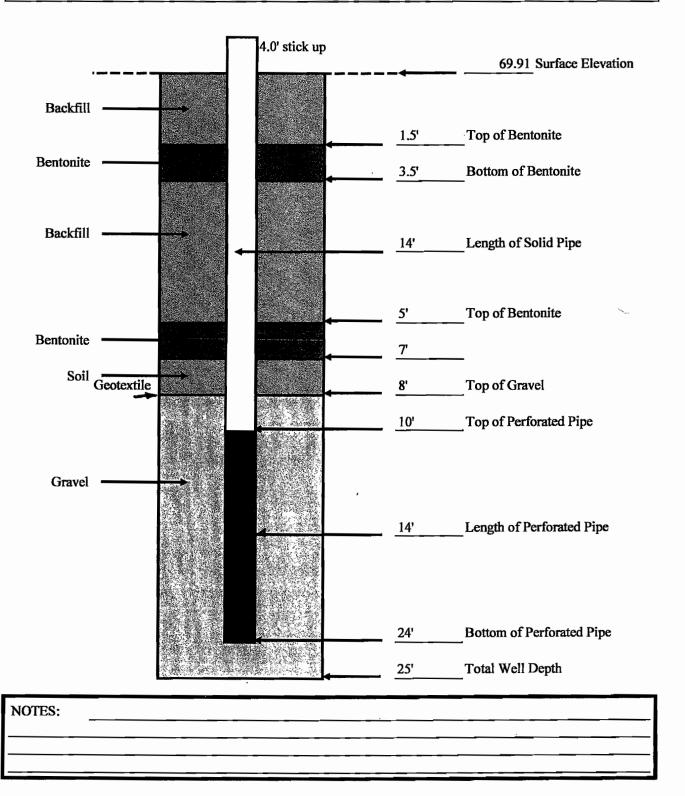


Date	02/04/10	Boring Depth	30'
Project Name	SARASOTA COUNTY	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR-11
Well Number	GW-21	Pipe Diameter	6"

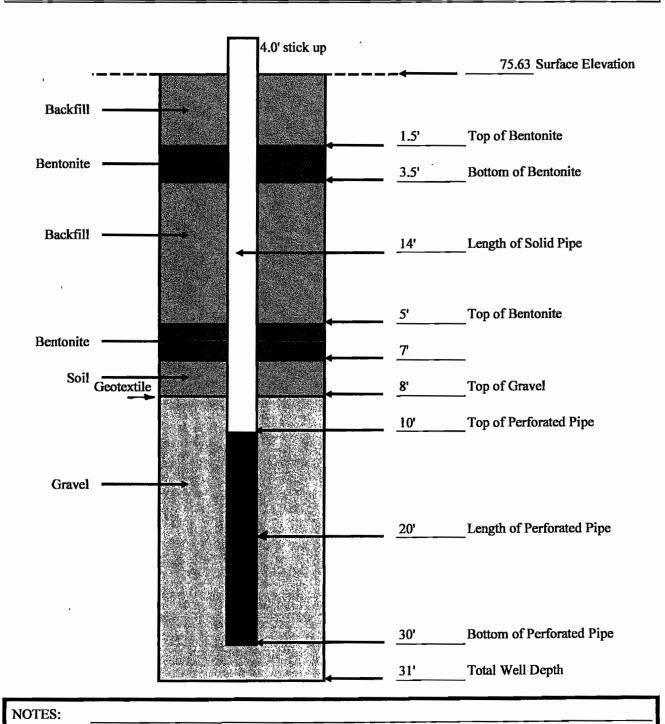


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Date	02/03/10	Boring Depth	25'
Project Name	SARASOTA COUNTY	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR-11
Well Number	GW-22	Pipe Diameter	6"

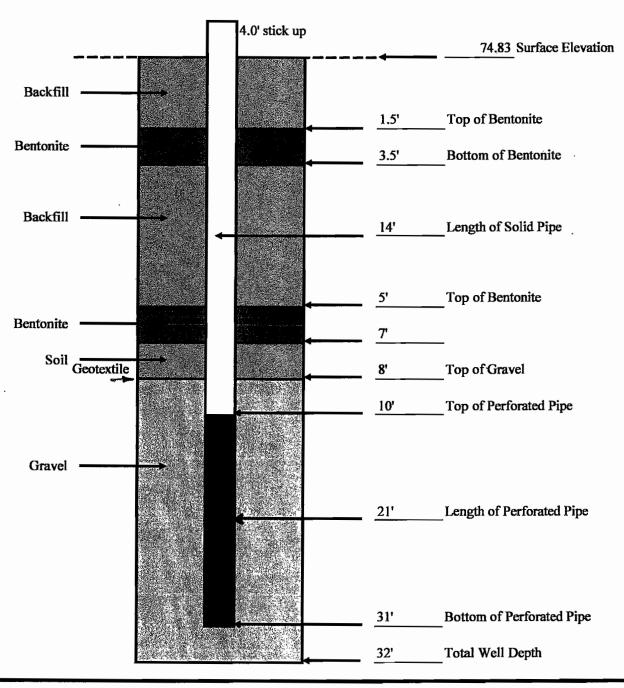


Date	02/03/10	Boring Depth	31'
Project Name	SARASOTA COUNTY	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR-11
Well Number	GW-23	Pipe Diameter	6"



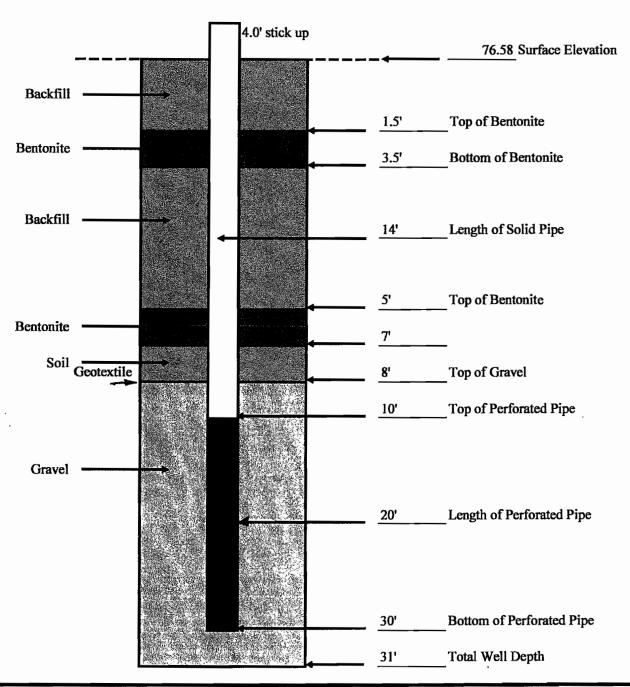
SCS ENGINEERS

Date	02/03/10	Boring Depth	32'
Project Name	SARASOTA COUNTY	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR-11
Well Number	GW-24	Pipe Diameter	6"



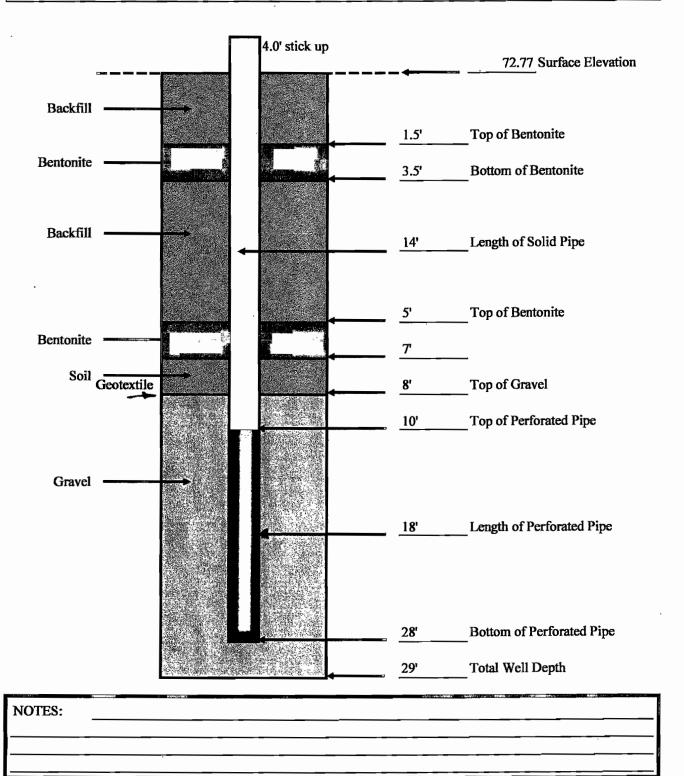
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Date	02/03/10	Boring Depth	31'
Project Name	SARASOTA COUNTY	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR-11
Well Number	GW-25	Pipe Diameter	6"



NOTES:			
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Date	02/04/10	Boring Depth	29'
Project Name	SARASOTA COUNTY	Boring Diameter	36"
Project Number	12209031	Pipe Spec.	SDR-11
Well Number	GW-26.	Pipe Diameter	6 <sup>n</sup>



1424 S.E. 15th St., Sutte 44 Ft. Loud., FL 33316 954 522-4969 Fox: 954 522-5264

#### **DAILY DIARY**

PROJECT NAME: S.A.	RASOTA CO. LIF	DATE: 2-5-10 CREW: 313	
	LINEAR FEET OF DRILLING LINEAR FEET OF DRILLING - ABANDONI	MENT	ganazze Bergin
LINEAR FEET OF PIPE I BELOW GROUND SURF		PERFORATED PIPE - DIA 6	
COMPLETION (WELL NU	MBERISD: GW-3,4	5,6	
	**************************************		
	· · ·	NE ORMANIO)	
WEATHER CONDITIONS	73°CLOUDY		· · · · · · · · · · · · · · · · · · ·
START TIME 7:0	90 Д	STOP TIME: 11:00 R	n
COMMENTS: DRILL GW-5 AT 3	ED+SET PIPE ON 3, GW-GAT 35,	END DAY+JOB	er Bû,
-DATE	CLIENT REPRESENTATIVE (NAME & TITLE)	2-5-10 Bill Bari DATE BEH DRILLING	SITE SUPERVISOR
DATE	CLIENT REPRESENTATIVE (NAME & TITLE)	ALL BORE HOLES DRILLED TO SPECIFIED DEPTHS OF OWNER/CLIENT REPRESENT	

Site Location: SARASOTA CO. LE Date: 2 Well Number: 6w-3

Depth 35	Composition ·	Degree of Decompo- sition	Moisture	Comments
0-8	SOIL COVER	ัญล	DRY	
8-10	MSω	NONE	DRY	780
10-20	MSWIDIRT	SLIGHT	DEY	430
20-30	£1	11	((	1020
30-35	msw   DERT WOOD	SLEGHT	1755	વક્રવ્
	13013			
33	6w-4	-		
0-1	SOIL COVER	NA	PIZY	
1-10	MSWIDERT	SETGHT	DRY	770
7-20	11	11	( (	820
1-10 2-20 0-33	MSWI DIET	SLIGHT	DRY	930
•	13013			
33	6w-5 .			
0-7	SUIL COVER	منر	Di2Y	
7-10	MSW	NONE	DIZY	820
0-20	msul werthood	SLIGHT	YSia	900
20-33	MSWIDIRT	SITGHT	750	103°
35	aw-6			
0-8	SOIL COVER	NA	DIZY	810
-20	MSWIDERT	SLIGHT	DIZY	910
0-30	11	11	21	990
0-35	MSW WOOD DIRT	SLIGHT	1715A	lozo

**B&H** Drilling Representative

Owner/Owner's Representative

B&H Drilling Services, Inc. 1424 SE 15th Street, Fort Lauderdale, FL 33316

Phone: (954) 522-4969 Fax: (954) 522-5264

HHG=Household Garbage CD= Construction Debris PPR/PLST= Paper/Plastic

NWSP=Newspaper

1424 S.E. 15th St., Suite 44 = Ft. Laud., FL 33316 954 522-4969 = Fax: 954 522-5264

#### **DAILY DIARY**

PROJECT NAME: SAIZASOTA CLIENT: SCS	co. LIF		J-28-10 BB
	OF DRILLING OF DRILLING - ABANDONMEI		
LINEAR FEET OF PIPE INSTALLED: BELOW GROUND SURFACE		PERFORATED PIPE - DIA_	6 PE
COMPLETION (WELL NUMBER(S)):	Gw-9,14,	10	
The state of the s			
WEATHER CONDITIONS: 73°5	GENERALINI UNN Y	HORMAHON	
START TIME: 10:30 A		STOP TIME:	2:0013
COMMENTS: FIRST DAY OF	F DRILLING W-10 To 34	. DRILLED .END DAY	GW-9 TO 33,
FOOTAGE DRILLED	=836		
	NT REPRESENTATIVE (NAME & TITLE)	<u> -28-10</u> DATE	BUBLING SITE SUPERVISOR
	NT REPRESENTATIVE (NAME & TITLE)		RILLED TO SPECIFIED OR APPROVED CLIENT REPRESENTATIVE.

Site Location:	SARASOTA	co. LE	Date:	1-28-1
Well Number:	Giv-9	-1		

Depth 33	Composition ·	Degree of Decomposition	Moisture	Comments
0-5	SOIL COVER	เกษ	DRY	
5-10 10-20 20-33	SOIL COVER MSW DIRT	NONE	DISY	78° 86° 93°
10-20	11 .	11	11	860
20-33	MSW   DIZT	SLIGHT	DIZY	930
	The state of the s			•
	· · · · · · · · · · · · · · · · · · ·			
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<b>B&amp;H Drilling Representative</b>	Owner/Owner's Representative

B&H Drilling Services, Inc. 1424 SE 15<sup>th</sup> Street, Fort Lauderdale, FL 33316 Phone: (954) 522-4969 Fax: (954) 522-5264 NWSP= Newspaper HHG= Household Garbage CD= Construction Debris PPR/PLST= Paper/Plastic

Site Location:	SARASOTA	co. LF	Date: 1-28-10
Well Number:	: 6W-14		

Depth	Composition ·	Degree of Decompo- sition	Moisture	Comments
0-4	SOIL COVER	เกษ A_	DRY	
4-10	MSW	NONE	DISY	780
10-20	MSWIDIRT	SITGHT	Diey	940
20-32	MSWIDIETILLOOD	SLIGHT	DRY	960
	GW-10		<del>-</del>	
0-5	SOIL COVER	· NA	DISY	
5-10	MSW   DIZT	NONE	DIZY	730
10-20	msu	SETGHT	DISA_	880
34	MSWIDERT	SLIGHT	DIZY	920
			•	

B&H Drilling Representative	Owner/Owner's Representative

B&H Drilling Services, Inc. 1424 SE 15<sup>th</sup> Street, Fort Lauderdale, FL 33316 Phone: (954) 522-4969 Fax: (954) 522-5264 NWSP= Newspaper
HHG= Household Garbage
CD= Construction Debris
PPR/PLST= Paper/Plastic

1424 S.E. 15th St., Suite 44 • Ft. Loud., FL 33316 954 522-4969 • Fox: 954 522-5264

#### **DAILY DIARY**

PROJECT NAME: SAKA	SOTA CO. LIF		-29-10 Baizteiz
	EAR FEET OF DRILLING	ENT	
LINEAR FEET OF PIPE INSTA BELOW GROUND SURFACE	LLED:	PERFORATED PIPE - DIA_	"PE
COMPLETION (WELL NUMBE	AISD: GW-11,12	2,13,15	1
WEATHER CONDITIONS:	GENERALII 75° SUNNY	, \±6 #\\\\\	
START TIME 1130		STOP TIME:	113013
GW-15 TO 32	S GW-11 TO 33',	6w-12 To 3!	5, Gw-13 to 33,
DATE	CLIENT REPRESENTATIVE (NAME & TITLE)	1-29-10 /g	BAH DRILLING SITE SUPERVISOR
DATE	CLIENT REPRESENTATIVE		LLED TO SPECIFIED OR APPROVED CLIENT REPRESENTATIVE.

Site Location: SARASOTA CO. LE Date: 1-29-10
Well Number: 6w-11

Depth 33	Composition ·	Degree of Decompo- sition	Moisture	Comments
0-4	SOIL COVER	i rua	DRY	
1-10	MSWIDERT	NONE	DRY	770
0-20	MSW.	SLIGHT	DISY	940
0-33	mswidter	SLIGHT	DKY	870
	13013			<u> </u>
35	Gw-12			
7-4	SOIL COVER	· NA	DIZY	
-10	MSW	NONE	シアン	830
0-20	DIRT MSW	SLIGHT	Disy	840
10-35	msu lucos	SLIGHT	17154	970
33	Gw-13			
3-6	SOIL COUEIZ	AUA_	1715h	
2-10	Msw	NONE	DRY	880
0-20	DERTINSW	SLIGHT	DIZY	950
0-33	MSW/DIRTHWOOD	SLIGHT	DISY	980
	13013			

**B&H** Drilling Representative

Owner/Owner's Representative

**B&H Drilling Services, Inc.** 1424 SE 15<sup>th</sup> Street, Fort Lauderdale, FL 33316 Phone: (954) 522-4969 Fax: (954) 522-5264 NWSP= Newspaper HHG= Household Garbage CD= Construction Debris PPR/PLST= Paper/Plastic

	j 5	
Site Location: SARASo	OTA co. IF	Date: 1-29-10
Well Number: Gu-15		

Composition ·	Degree of Decomposition	Moisture	Comments
SOIL COVER	เกิ	DRY	
MSW	NONE	DISY	86°
msw.	SIJGHT	DRY	800
MSW WOOD DIRT	SITCHT	DE1	880
			ĥ.
130 0			
	<del></del>		
	+		
	<del></del>		
	+		
	1		
	1		
	SOTL COVER  MSW  MSW   WOODS   DIZT  1308	SOIL COVER  SOIL COVER  MSW  MSW  SLIGHT  MSW   WONE  SLIGHT  1308	SOIL COVER DRY  MSW NOWE DIZY  MSW SLIGHT DRY  MSW LUDD DIZT SLIGHT DRY  1308

B&H Drilling Representative	Owner/Owner's Representative
	•

B&H Drilling Services, Inc. 1424 SE 15<sup>th</sup> Street, Fort Lauderdale, FL 33316 Phone: (954) 522-4969 Fax: (954) 522-5264 NWSP= Newspaper
HHG= Household Garbage
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1424 S.E. 15th St., Suite 44 • Ft. Laud., FL 33316 954 522-4969 Fax: 954 522-5264

#### **DAILY DIARY**

	PROJECT NAME: SARASOTA CO.	HF	DATE: 1-	30-10 B
	Q6 LINEAR FEET OF DRIE	DENELLING  LLING - ABANDONMENT	<b>c</b>	
	LINEAR FEET OF PIPE INSTALLED: BELOW GROUND SURFACE		ORATED PIPE - DIA	
	COMPLETION (WELL NUMBER(S)):	w-16,17,1	8	
	WEATHER CONDITIONS: 15°5UM	GENERAPINFOR	HIVARO)	
	START TIME: 7100 P			10:30 A
	COMMENTS: DRILLED+ SET I	DAY.	W-16AT 30	', 6w-17AT 34',
7.		PRESENTATIVE D.	ATE	B&H DRILLING SITE SUPERVISOR
ē		AEGEMANIAE	L BORE HOLES DRILLE EPTHS OF OWNER/CLIE	TO SPECIFIED OR APPROVED INT REPRESENTATIVE.

Site Location:	SARASOTA	co. LIF	Date: <u>(-3</u> 0-	10
Well Number:	GW-15	•		

Depth	Composition ·	Degree of Decomposition	Moisture	Comments
				ê <sub>t</sub> .
30	GW-16 1-30-10			
0-3	SOIL COVER	NA	DEY	
3 - 10	DIRT IMSW	NONE	D15-1	78° WET-4-5'
10-20	msu	SLIGHT	Dizy	830
2-30	msulwoos	SLIGHT	DIZY	860
•	<del>3013</del>			
34	6w-17.			
34	SOIL COVER	NA	DISY	
5-10	MSW DIRT	SITGHT	DISA	775
10-20	il	L\	1 4	810
20-34	DIRTIMSUL	SLTGHT	DIZY	960
	BoB			
			·	

B&H Drilling Representative	Owner/Owner's Representative

**B&H Drilling Services, Inc.** 1424 SE 15<sup>th</sup> Street, Fort Lauderdale, FL 33316 Phone: (954) 522-4969 Fax: (954) 522-5264 NWSP= Newspaper
HHG= Household Garbage
CD= Construction Debris
PPR/PLST= Paper/Plastic

Site Location: Si	ARASOTA	co. LIF	Date	: 1-30-10
Well Number: 💪	w-18			

Depth	Composition	Degree of	Moisture	Comments
Зория		Decompo-	2.202002	
32		sition		
0-7	SOIL COVER	NA	DRY	
7-10	MSW	SLIGHT		790
10-20	11 .	4 (	١.	810
20-32	MSW LWOOD BIRT	SLIGHT	DISY	870
	<u> </u>			/
·				
		_		
		<del>.    </del>		
			·	

<b>B&amp;H</b> Drilling Representative	Owner/Owner's Representative

B&H Drilling Services, Inc. 1424 SE 15<sup>th</sup> Street, Fort Lauderdale, FL 33316 Phone: (954) 522-4969 Fax: (954) 522-5264 NWSP= Newspaper HHG= Household Garbage CD= Construction Debris PPR/PLST= Paper/Plastic

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#### **DAILY DIARY**

PROJECT NAME: SAIZASOTA	co. UF	DATE: 2-3-10 CREW: BB
	FOR DRILLING TOF DRILLING - ABANDONN	
LINEAR FEET OF PIPE INSTALLED: BELOW GROUND SURFACE		SOLID PIPE - DIA
COMPLETION (WELL NUMBER(S)):	6w-8,7,3	25,24 2
	A=1(3:05.2)	NEGRIMATION S
WEATHER CONDITIONS: 70°		
START TIME: 7.00 R		STOP TIME: 3100 P
COMMENTS: DIRTLLED+ SET 6W-25 AT 31, BU 6W-22 AT 25'.	PTPE ON GW U-24AT 32', END DAY.	· 8 AT 34', GW- TAT 30', GW- 23 AT 31', GW- 20 AT 31'
DATE CL	JENT REPRESENTATIVE (NAME & TITLE)	2-3-10 B M Barter DATE BAH DRILLING SITE SUPERVISOR
DATE CL	IENT REPRESENTATIVE (NAME & TITLE)	ALL BORE HOLES DRILLED TO SPECIFIED OR APPROVED DEPTHS OF OWNER/CLIENT REPRESENTATIVE.

Site Location:	SARASOTA	coult	Ε	ate: 2-3-10
Well Number:	Gw-8			

Depth	Composition -	Degree of	Moisture	Comments
]		Decompo- sition		
34		Sittora		Section 10 Company to English Make Section 1 Africa Section 1
0-4	SOIL COVER	เกษ	DRY	
4-10	msin	NONE	Dizi	790
10-20	MSWISTRE	SLIGHT	Dizy	840
20-34	MSWIDERT	SUTGHT	DRY	
	<u> </u>			
30	6w.7			
0-8	SUIL COVER	NA	DRY	
3-10	msin	NUNE	DIZY	780
2-20	MSW	SCIGHT	DRY	850
2-30	MSW DIKT	SLIGHT	DRY	870
	BOB			
31	Gw-25			
> -4	SOILCOVER	NA	DIZY	
i-ic	<u> MSiu</u>	SITGHT	DISA	800
0-20			<u> </u>	800
0-3i	mswlwood	SETGHT	Disy	940
	13013			
	The Control of the Co		Set Control of the	

**B&H** Drilling Representative

Bill Barter

Owner/Owner's Representative

B&H Drilling Services, Inc. 1424 SE 15<sup>th</sup> Street, Fort Lauderdale, FL 33316 Phone: (954) 522-4969 Fax: (954) 522-5264 NWSP= Newspaper HHG= Household Garbage CD= Construction Debris PPR/PLST= Paper/Plastic

Site Location: SARASOTA CO. LF Date: 2-3-10
Well Number: GW-24

Depth 32	Composition -	Degree of Decomposition	Moisture	Comments
0-4	SOIL COVER	เบล	DRY	
4-10	MSWIDERT	NONE	DISA	820
0-20	MSWIDIRT	SLIGHT	DRY	940
20 3.2	MSW	SIJGHT	λέλ(	930
	<u> </u>			
31	GW-23			
0-4	SOIL COVEIZ	NA	DIST	
4-10	MSWIDERT	SLIGHT	DISA	84 <sup>©</sup>
10-Z0			"	86.
<i>w</i> -3i	msin (much	SLIGHT	DISA	1000
,	1308			
31	6w-20.			
0-4	SOIL COVER	NA	DEX	
1-10	msu	NONE	DIST	800
0-20	MSWIDERT	SUTEHT	Dizy	890
20-31	MSW	SLIGHT	DIZY	920
	<i>3</i> 013			
	6w-ZZ			
0-4	SOIL COUER	NA	YSICI	
1-10	MSW	MONE	PRY	
0-25	MSWIDILET	SLIGHT	DISA.	

**B&H Drilling Representative** 

Owner/Owner's Representative

214

B&H Drilling Services, Inc. 1424 SE 15<sup>th</sup> Street, Fort Landerdale, FL 33316 Phone: (954) 522-4969 Fax: (954) 522-5264 NWSP-Newspaper HHG-Household Garbage CD-Construction Debris PPR/PLST-Paper/Plastic

1424 S.E. 15th St., Suite 44 = Ft. Laud., FL 33316 954 522-4969 = Fax: 954 522-5264

#### **DAILY DIARY**

PROJECT NAME: SAIZASOTA	<b>}</b>		re: <u>2-4-10</u> ew: <u>BB</u>
A	ET OF DRILLING ET OF DRILLING - ABANDONM	ENT	
LINEAR FEET OF PIPE INSTALLED: BELOW GROUND SURFACE		PERFORATED PIPE -	DIA
COMPLETION (WELL NUMBER(S)):	6w-21,19	1,26,	
		Teoringanon 🍱	
WEATHER CONDITIONS: 18	SUNNY		***
START TIME: 9100 17		STOP TIM	11:00P
COMMENTS: DIZTLLED+ S	SET PIPEON GW-1AT 33',	6W-21 6W-2AT	AT 30', GW-19 AT 30', 34', END DAY.
-DATE C	CLIENT REPRESENTATIVE (NAME & TITLE)	2-4-10 DATE	Bill Buter BRH DRILLING SITE SUPERVISOR
DATE	LIENT REPRESENTATIVE		S DRILLED TO SPECIFIED OR APPROVED IER/CLIENT REPRESENTATIVE.

		<b>b</b> i	•	.4
Site Location:	SARASOTA	co. IF	Date:	2-3-10
Well Number:	GW-21			

Depth 30	Composition -	Degree of Decomposition	Moisture	Comments
0-1	SOIL COVER	<b>NA</b>	DRY	
7-10	MSW	NONE	DEY	790
10-20	MSWIDTH	SLIGHT	DISA.	910
20-30	MSW	SLIGHT	0657	1010
	13013			
30	Gw-19			
6-6	SOILCOUER	NA	DRY	
4-10	MSW	SLIGHT	DIEY	820
10-20	Lt	11	10	90°
20-30	MSW WOOD	SCIGHT	DRY	910
	BOB			
29	6w-26			
0-5	SOIL COUEIL	NA	DEX	
5-10	~sw	NONE	DISY	80°
10-20	MSW DERT	SEIGHT	DRY	830
20-29	mgu luood	SLIGHT	DIZY	102 <sup>d</sup>
	BOB			

**B&H Drilling Representative** 

Bill Banter

Owner/Owner's Representative

B&H Drilling Services, Inc. 1424 SE 15<sup>th</sup> Street, Fart Landerdale, FL 33316

Phone: (954) 522-4969 Fax: (954) 522-5264

NWSP-- Newspaper HHG-- Household Garbage CD-- Construction Debris PPR/PLST-- Paper/Plastic

Site Location:	aTe20907	co. LIE	Date: 2-8-10
Well Number:		COC II	2,00

Depth	Composition	Degree of Decompo-	Moisture	Comments
33		sition		
0-9	SOIL COVER	เกษ	DRY	790
9-20	MSW	NONE	DEY	82°
20-33	msw ozet	SLIGHT	DRY	890
	303			
34	6w-2			
0-10	SOIL COVEIL	NA	DRY	710
10-20	MSW	SLIGHT	DRY	840
20-34	MSW BERTLUMB BOB	SLIGHT	DRY	1030
	BOR			
	<i>w</i> -0			
•				
		1		
	•			
ENG SHEWARD TANKS			•	

**B&H Drilling Representative** 

156 fill Botter

B&H Drilling Services, Inc. 1424 SE 15<sup>th</sup> Street, Fort Landerdale, FL 33316 Phone: (954) 522-4969 Fax: (954) 522-5264 Owner/Owner's Representative

NWSP-Newspaper
HHG-Household Garbage
CD-Construction Debris
PPR/PLST-Paper/Plastic



# ATTACHMENT D CONDENSATE SUMP LEAK TEST REPORT

### INFINITY PLASTICS, LLC

1124 Horicon Street Mayville, WI 53050 Phone: 920-387-0200

Fax: 920-387-0300

Week of March 8, 2010

SCS Field Services Sarasota County Central L/F 4000 Knights Trail Rd Nokomis, FL 34275

Re:

Air Test on Lee Po# POCH024959

To Whom It May Concern:

An air test was performed on the 36" DR17 sump #3 testing was conducted on the week of March 8, 2010. Sump #3 was pressured to 5 psi for 8 hours. No leak down was detected. The sump is certified leak free.

Andy Zipperer Quality Control

#### INFINITY PLASTICS, LLC

1124 Horicon Street Mayville, WI 53050 Phone: 920-387-0200

Fax: 920-387-0300

Week of March 8, 2010

SCS Field Services
Sarasota County Central L/F
4000 Knights Trail Rd
Nokomis, FL 34275

Re:

Air Test on Lee Po# POCH024959

To Whom It May Concern:

An air test was performed on the 36" DR17 sump #4 testing was conducted on the week of March 8, 2016. Sump #4 was pressured to 5 psi for 8 hours. No leak down was detected. The sump is certified leak free.

Andy Zipperer Quality Control

#### INFINITY PLASTICS, LLC.

1124 Horicon Street Mayville, WI 53050 Phone: 920-387-0200

Fax: 920-387-0300

Week of March 8, 2010

SCS Field Services Sarasota County Central L/F 4000 Knights Trail Rd Nokomis, FL 34275

Re:

Air Test on Lee Po# POCH024959

To Whom It May Concern:

An air test was performed on the 48" DR17 sump #5 testing was conducted on the week of March 8, 2010. Sump #5 was pressured to 5 psi for 8 hours. No leak down was detected. The sump is certified leak free.

Andy Zipperer Quality Control



#### ATTACHMENT E PROGRESS PHOTOGRAPHS

Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 1-20-10

Comments:

Fusing 18" SDR 17 (header) at

Phase I



Date: 1-21-10

Comments:

Fusing 4" SDR 9 (condensate) at

Phase I





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 1-25-10

Comments:

STP boring at flare pad location (Ardaman) – 50 FT boring



Date: 1-27-10

Comments:

Construction of U-traps





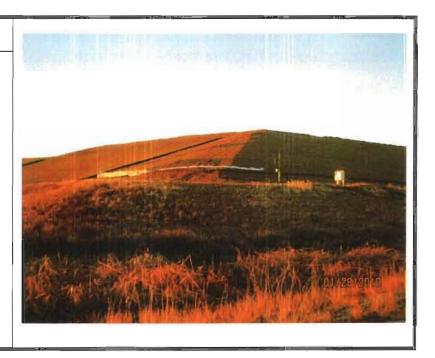
Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 1-28-10

Comments:

Silt fence installation on northwest corner



Date: 1-28-10

Comments:

Temporary stockpile of soil to be used as backfill in gas wells





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 1-28-10

Comments:

Drill rig at GW-9



Date: 1-28-10

Comments:

Pouring gravel on GW-9





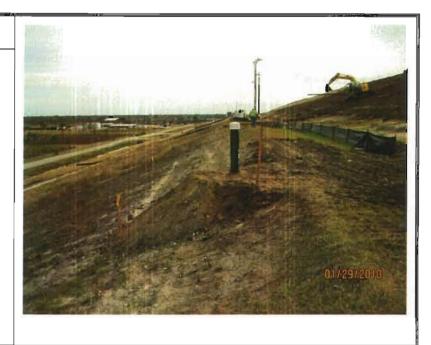
Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 1-29-10

Comments:

GW-14 – looking south



Date: 2-1-10

Comments:

Existing bottom liner anchor trench of Phase I found





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 2-3-10

Comments:

GW-23, GW-24, GW-25



Date: 2-4-10

Comments:

Placing bentonite at GW-21





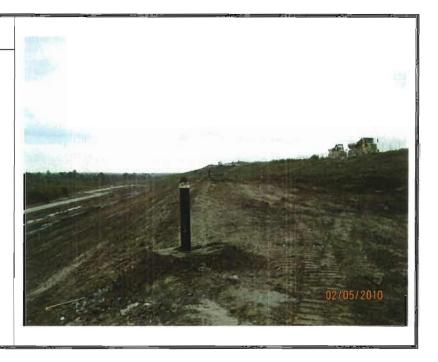
Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 2-5-10

Comments:

GW-1 and GW-2, looking east



Date: 2-8-10

Comments:

10' x 20' gravel access ramp at staging area





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 2-8-10

Comments:

Ramp access for excavator before header installation on north slope



Date: 2-8-10

Comments:

U-trap. 4" tee for drain line looking west. Elbow needed to connect U-trap to LCO





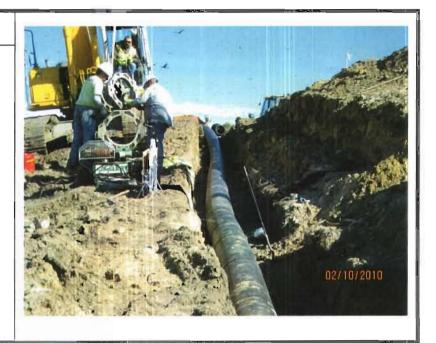
Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 2-10-10

Comments:

Header pipe and lateral connection for GW-2



Date: 2-10-10

Comments:

4" SDR 11 lateral, 4" SDR 9 (condensate), 2" SDR 9 (airline) for GW-3





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 2-17-10

Comments:

Access Point installation



Date: 2-19-10

Comments:

Framing and crushed gravel at Flare Station





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 2-19-10

Comments:

Framing and crushed gravel at Flare Station



Date: 2-22-10

Comments:

FD&C (Subcontractor) pouring concrete at Flare Station





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 2-23-10

Comments:

Concrete pads at Flare Station. FD&C compacting soil around concrete.



Date: 2-25-10

Comments:

Trench towards U-1.





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 3-1-10

Comments:

Flare / Stack delivered.



Date: 3-3-10

Comments:

Header isolation and condensate valve pits installed.





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 3-4-10

Comments:

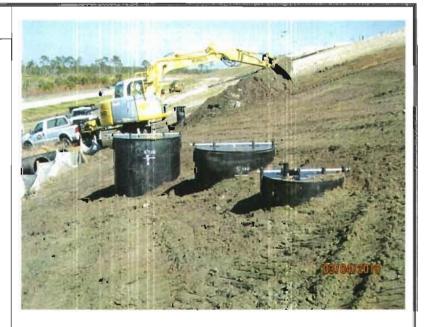
Installation of Sump # 2.



Date: 3-4-10

Comments:

Header isolation, Condensate, and airline valve pits (west of U-3) installed.





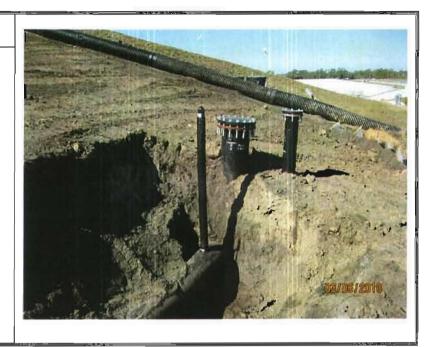
Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 3-6-10

Comments:

Completed condensate riser for proposed remote wellhead at LCO-5N.



Date: 3-9-10

Comments:

U-3 drainline and remote wellhead connection to LCO-5N.



(Pic-11)



Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 3-11-10

Comments:

CMP installed (80 LF).



Date: 3-17-10

Comments:

Wellhead installed (GW-1).





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 3-17-10

Comments:

Installing hydrated bentonite to airline valve pit (north slope).



Date: 3-18-10

Comments:

Installation of 18" header on south slope.





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 3-30-10

Comments:

EC Electrical – Trenching from Power Pole to Flare Station.



Date: 3-31-10

Comments:

Gravel pad at southeast corner.





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 3-31-10

Comments:

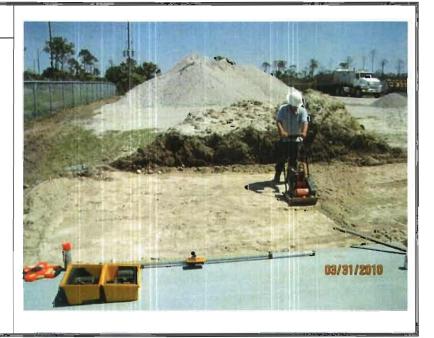
EC Electrical – Trenching from Flare Station to maintenance building (telephone line).



Date: 3-31-10

Comments:

FD &C grading area for compressor pad.





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 4-1-10

Comments:

Ardaman and Associates conducting compaction test at compressor pad.



Date: 4-2-10

Comments:

24" SDR 17 header installation – east slope.





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 4-3-10

Comments:

U-2 lateral to LCO-3N

connection.



Date: 4-3-10

Comments:

GW-15 laterals and extension.





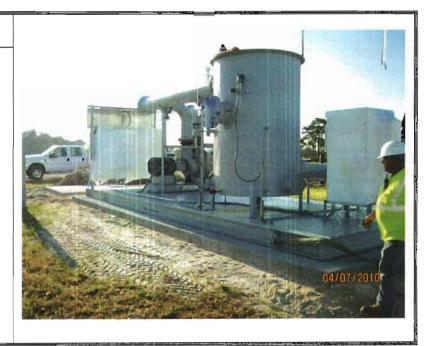
Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 4-7-10

Comments:

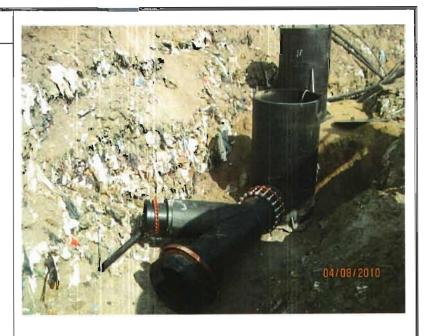
Placing flare station and stack onto concrete pads.



Date: 4-8-10

Comments:

Installing 18" x 24" x 30" wye – east slope.





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 4-15-10

Comments:

Installing 42" RCP at road

crossing.



Date: 4-15-10

Comments:

Bench grading – east slope.





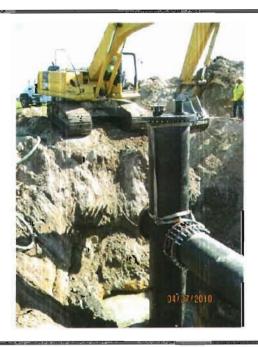
Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 4-27-10

Comments:

Sump # 4 installation.



Date: 4-29-10

Comments:

30" header inside RCP at yard waste road crossing # 2.





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 5-01-10

Comments:

Installing extension on 18" header valve pit at southeast corner of Phase 1 landfill.



Date: 5-01-10

Comments:

Welding extension on valve pit for 18" header.





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 5-3-10

Comments:

Backfilling around valve pits at southeast corner of Phase 1 landfill.



Date: 5-3-10

Comments:

Density testing backfill at header road crossing by Ardaman Tech.





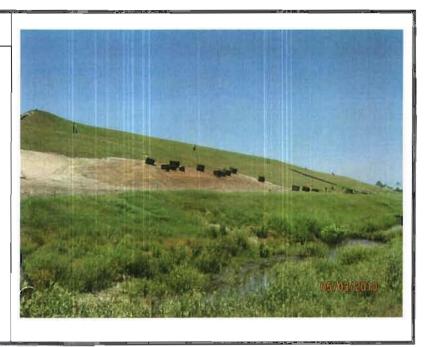
Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 5-3-10

Comments:

Placing sod on east slope of Phase 1 landfill.



Date: 5-3-10

Comments:

Verizon repair work of severed phone line.





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 5-4-10

Comments:

Excavating trench on south side of road crossing by Flare station for installation of 48" RCP.



Date: 5-4-10

Comments:

Placing broken concrete on bottom of trench on south side of road crossing by Flare station prior to installing 48" RCP.





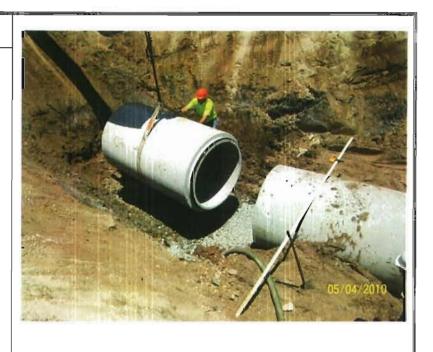
Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 5-4-10

Comments:

Installation of 48" RCP.



Date: 5-5-10

Comments:

Backfilling and compacting fill over 48" RCP.





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 5-6-10

Comments:

Inserting 36" HDPE Pipe in 48"

RCP.





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 5-6-10

Comments:

Installation of 36", 90 degree elbow and reducer.



Date: 5-7-10

Comments:

Rock excavation for sump S-5.





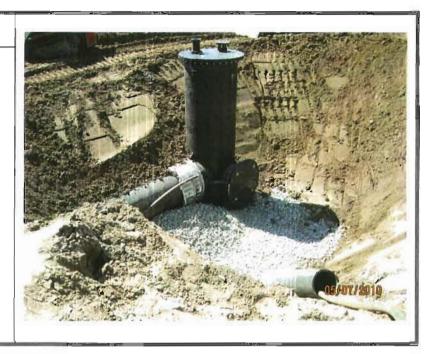
Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 5-7-10

Comments:

Partial backfill around sump S-5.



Date: 5-8-10

Comments:

Pressure testing new section of 30" header.





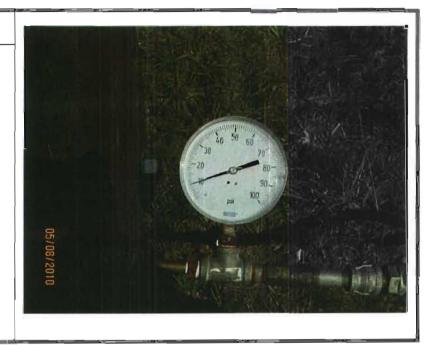
Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 5-8-10

Comments:

10 psi held for one hour. No change in pressure.



Date: 5-10-10

Comments:

Excavating trench for 30" header from Sta. 14+55+/- heading south.





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 5-10-10

Comments:

Placing 30" header in trench.



Date: 5-10-10

Comments:

Connection of 30" header to flange on sump S-5.





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 5-11-10

Comments:

FPL installing meter at flare station.



Date: 5-11-10

Comments:

Completing backfilling of 30", 4", 2", and Sump S-5.





Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 5-11-10

Comments:

Installing 1: drain line and drip trap at flame arrestor.



Date: 5-12-10

Comments:

Installing 14" HDPE to knock out





# **Photographic Record**

Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 5-13-10

Comments:

Sump S-3 complete with sump

pump.



Date: 5-14-10

Comments:

Washing truck loading containment area and cleaning sump.





# **Photographic Record**

Project Name: CCSWDC Phase I LFG Construction

Owner: Sarasota County

Date: 5-15-10

Comments:

Propane tanks and mounting bracket installed. Propane lines tested using soap spray at each joint.



Date: 5-19-10

Comments:

Bollards around U-1 (North Slope).





FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

AUG 13 2010

SOUTHWEST DISTRICT TAMPA

# ATTACHMENT F SUBSURFACE SOIL EXPLORATION AND LABORATORY TEST RESULTS

SUBSURFACE SOIL EXPLORATION FOR GAS CONTROL STRUCTURE BY ARDAMAN AND ASSOCIATES, INC.

SUBSURFACE SOIL EXPLORATION,
ANALYSIS AND RECOMMENDATIONS
FOR PROPOSED
"CCSWDC PHASE 1 LANDFILL
GAS CONTROL STRUCTURE,"
KNIGHTS TRAIL ROAD,
SARASOTA COUNTY, FLORIDA



Ardaman & Associates, Inc.

#### **OFFICES**

Orlando, 8008 S. Orange Avenue, Orlando, Florida 32809, Phone (407) 855-3860
Bartow, 1525 Centennial Drive, Bartow, Florida 33830, Phone (863) 533-0858
Cocoa, 1300 N. Cocoa Boulevard, Cocoa, Florida 32922, Phone (321) 632-2503
Fort Myers, 9970 Bavaria Road, Fort Myers, Florida 33913, Phone (239) 768-6600
Miami, 2608 W. 84<sup>th</sup> Street, Hialeah, Florida, 33016, Phone (305) 825-2683
Port Charlotte, 740 Tamiami Trail, Unit 3, Port Charlotte, Florida 33954, Phone (941) 624-3393
Port St. Lucie, 460 NW Concourse Place, Unit #1, Port St. Lucie, Florida 34986-2248, Phone (772) 878-0072
Sarasota, 78 Sarasota Center Boulevard, Sarasota, Florida 34240, Phone (941) 922-3526
Tallahassee, 3175 West Tharpe Street, Tallahassee, Florida 32303, Phone (850) 576-6131
Tampa, 3925 Coconut Palm Drive, Suite 115, Tampa, Florida 33619, Phone (813) 620-3389
West Palm Beach, 2511 Westgate Avenue, Suite 10, West Palm Beach, Florida 33409, Phone (561) 687-8200

MEMBERS:
A.S.F.E.
American Concrete Institute
American Society for Testing and Materials
Florida Institute of Consulting Engineers



Ardaman & Associates, Inc.

Geotechnical, Environmental and Materials Consultants

February 17, 2010 File No. 09-7375

TO:

HDR Engineering, Inc.

5426 Bay Center Drive, Suite 400

Tampa FL 33609-3444

Attention: Richard Siemening

SUBJECT:

Subsurface Soil Exploration, Analysis and Recommendations for Proposed

"CCSWDC Phase 1 Landfill Gas Control Structure," Knights Trail Road, Sarasota

County, Florida

Dear Mr. Siemering:

As requested, our firm has completed a subsurface soil exploration program for an equipment foundation pad for the project referenced above. The purpose of this program was to assess subsurface soil conditions and prepare foundation design recommendations for the proposed pad.

This report documents our findings and conclusions. It has been prepared for the exclusive use of HDR Engineering and their consultants for specific application to the subject project, in accordance with generally-accepted geotechnical engineering practices. No other warranty, expressed or implied, is made.

#### SCOPE

The scope of our services has included the following items:

- 1. Conducting one (1) Standard Penetration Test boring to determine the nature and condition of the subsurface soils.
- Reviewing each soil sample obtained in our field testing program by a geotechnical engineer in the laboratory for further investigation, classification and assignment of laboratory tests.

- Performing laboratory tests on selected samples.
- 4. Analyzing the existing soil conditions with respect to the proposed construction.
- 5. Preparing this report to document the results of our field testing program, engineering analyses and recommendations.

#### SITE LOCATION

The subject site is located near the southeast corner of Section 3, Township 38 South, Range 19 East, in Sarasota County, Florida. As shown on Figure 1, the site is located near the northwest corner of the landfill maintenance yard.

#### FIELD EXPLORATION PROGRAM

Our field exploration program consisted of conducting one (1) Standard Penetration Test boring at the location shown on the attached Figure 1. This boring was performed to determine the nature and condition of the subsurface soils to a maximum depth of 50 feet below the existing ground surface. The test boring depth, location and number were determined by HDR Engineering, Inc.. The test boring was located in the field utilizing available landmarks and a 100-foot tape. Test boring locations should be considered accurate only to the degree implied by the method used. Should more accurate locations be required, a registered land surveyor should be retained. The equipment and procedures used in the boring are described in the appendix of this report.

#### **GENERAL SUBSURFACE CONDITIONS**

The general subsurface conditions encountered during the field exploration program are shown on the soil boring log, included in the appendix of this report. Soil stratification is based on examination of recovered soil samples and interpretation of field boring logs. The stratification lines represent the approximate boundaries between the soil types, while the actual transitions



may be gradual. A generalization of the subsurface soil conditions encountered in the boring is described below:

<u>DEPTH</u>	
TO	
(feet)	SOIL DESCRIPTION
1.4	medium dense fine sand with silt
14	
22	dense to very dense silt
32	medium dense silt, hard limerock layer in lower part
42	stiff lean clay
50	layers of very dense silt and hard limerock
	TO (feet) 14 22 32 42

On the date of our field exploration program, the water table was encountered at a depth of 3.1 feet below the existing ground surface. The water table is anticipated to fluctuate due to seasonal rainfall variations and other factors.

#### **LABORATORY TESTING PROGRAM**

Representative soil samples obtained during our field sampling operation were packaged and transferred to our office and, thereafter, examined by a geotechnical engineer to obtain more accurate descriptions of the existing soil strata. Laboratory testing was performed on selected samples as deemed necessary to aid in soil classification and to further define the engineering properties of the soils. The laboratory tests included determining the fines (silt and clay) content and water content of selected samples. The test results are presented on the soil boring logs (in the Appendix) at the depths from which the samples were recovered. The soil descriptions shown on the soil boring logs are based on the laboratory test results and a visual classification procedure in general accordance with the Unified Soil Classification System (ASTM D-2487 or D-2488).

#### **ANALYSIS AND RECOMMENDATIONS**

We understand that the proposed foundation consists of a 20' x 55' concrete mat (at least 10" thick) supporting 25,000 pounds (lb) of pumping and related equipment. The average soil bearing pressure would, therefore, be approximately 23 pounds per square foot without the weight of the concrete mat or approximately 145 pounds per square foot including the weight of a 10-inch thick concrete mat. These average bearing pressures assume a perfectly even load distribution. We recognize, however, that some load concentrations will generally occur.

#### Soils Analysis

The soils encountered at the subject site are well suited to support these loads on a conventionally designed reinforced concrete mat foundation. Assuming that the soils are prepared in accordance with the soil preparation recommendations of this report, and that foundation loads are no greater than those indicated, we anticipate that settlement of the mat will not exceed 0.5 inch. Due to the granular nature of the materials at the site, this settlement will occur primarily during construction.

#### Foundation Design

We recommend that the mat foundation be designed such that point loads, eccentric loads or live loads do not result in a contact pressure greater than 2000 psf at any location. In addition, we recommend that the average bearing pressure over any 20 foot by 20 foot area be no greater than 600 psf, including the weight of the concrete mat. Please contact our office for more detailed analyses if either of these conditions are not met.

A minimum soil cover of eight inches, as measured from the bottom of the mat foundation system to outside adjacent finished grade, should be provided.



### Soil Preparation Recommendations

The following soil preparation recommendations are made as a guide to the design professionals, parts of which should be incorporated into the project's general specifications:

- 1. The mat area, plus a margin of 5.0 feet outside its perimeter lines, should be cleared and grubbed of all surface vegetation and organic debris.
- The cleared and grubbed elevation should be compacted with a vibratory roller having a static weight of at least 8,000 pounds. Each pass should overlap the preceding pass by at least 30%. Sufficient passes should be made over the area, plus the 5.0 foot margin, to produce a density of at least 95% of Modified Proctor (ASTM D-1557) maximum density to a depth of 1.0 foot below the compacted surface. Extreme care should be used when vibratory compaction is used next to existing structures. A representative of Ardaman & Associates should be present during initial compaction efforts.
- 3. After compaction and testing to verify that the desired compaction has been achieved at this elevation, fill consisting of clean fine sands containing no more than 10% passing the No. 200 sieve, and having a Unified Soil Classification (ASTM D-2487) of "SP" or "SP-SM," can be placed in level lifts not exceeding 12 inches loose thickness and compacted with the equipment described above. Each lift should be compacted to at least 95% of Modified Proctor maximum density prior to the placement of subsequent lifts.
- 4. A geotechnical engineer or his representative from Ardaman & Associates, Inc., Sarasota office, should inspect and test the compacted excavated elevation and each layer of fill to verify compliance with the above recommendations. In addition, a representative should inspect and test the foundation contact soils immediately prior to concrete placement.

#### **GENERAL COMMENTS**

The analysis and recommendations submitted in this report are based upon the data obtained from one (1) test boring performed at the locations indicated on the attached Figure 1. This report does not reflect any variations which may occur outside boring locations. While the borings are representative of the subsurface conditions at their respective locations and within their respective vertical reaches, local variations characteristic of the subsurface materials of the region are anticipated and may be encountered. The nature and extent of variations may not become evident until during the course of a ground improvement program, if such a program is

February 17, 2010

undertaken. If variations then appear evident, it will be necessary to reevaluate the

recommendations of this report, after performing on-site observations during the construction

period and noting the characteristics of any variations. The boring logs and related information

are based upon the driller's logs and visual examination of selected samples in the laboratory.

The delineation between soil types shown on the logs is approximate, and the description

represents our interpretation of the subsurface conditions at the designated boring location on the

particular date drilled.

The water table depths shown on the boring logs represent the groundwater surfaces

encountered on the dates shown. Fluctuation of the water table should be anticipated

throughout the year.

It has been a pleasure to be of assistance to you with this project. Please contact us when we

may be of further service to you, or should you have any questions concerning this report.

Very truly yours,

ARDAMAN & ASSOCIATES, INC.

Certificate of Authorization No. 5950

Jerry H.Kuehn, P.E.

Senior Project Engineer

Fl. Lic. No. 35557

JHK/GHS:nh

Gary M. Schmidt, P.E. Vice President

Fl. Lic. No. 12305

**APPENDIX** 

# 9

#### SOIL BORING, SAMPLING AND TESTING METHODS

#### **Standard Penetration Test**

Cabacianless Sailer

The Standard Penetration Test (SPT) is a widely accepted method of in situ testing of foundation soils (ASTM D-1586). A 2-foot long, 2-inch O.D. split-barrel sampler attached to the end of a string of drilling rods is driven 18 inches into the ground by successive blows of a 140-pound hammer freely dropping 30 inches. The number of blows needed for each 6 inches of penetration is recorded. The sum of the blows required for penetration of the second and third 6-inch increments of penetration constitutes the test result or N-value. After the test, the sampler is extracted from the ground and opened to allow visual examination and classification of the retained soil sample. The N-value has been empirically correlated with various soil properties allowing a conservative estimate of the behavior of soils under load. The following tables relate N-values to a qualitative description of soil density and, for cohesive soils, an approximate unconfined compressive strength (Qu):

Conesionless Solls:	<u>in-value</u>	<u>Description</u>	
	0 to 4	Very loose	
	4 to 10	Loose	
	10 to 30	Medium dense	
	30 to 50	Dense	
	Above 50	Very dense	
Cohesive Soils:	N-Value	Description	Qu (ton/ft²)
	0 to 2	Very soft	Below 0.25
	2 to 4	Soft	0.25 to 0.50
	4 to 8	Medium stiff	0.50 to 1.0
	8 to 15	Stiff	1.0 to 2.0
	15 to 30	Very stiff	2.0 to 4.0
	Above 30	Hard	Above 4.0

NI Malica

The tests are usually performed at 5-foot intervals. However, more frequent or continuous testing is done by our firm through depths where a more accurate definition of the soils is required. The test holes are advanced to the test elevations by rotary drilling with a cutting bit, using circulating fluid to remove the cuttings and hold the fine grains in suspension. The circulating fluid, which is a bentonitic drilling mud, is also used to keep the hole open below the water table by maintaining an excess hydrostatic pressure inside the hole. In some soil deposits, particularly highly pervious ones, NX-size flush-coupled casing must be driven to just above the testing depth to keep the hole open and/or prevent the loss of circulating fluid.

Representative split-spoon samples from each sampling interval and from every different stratum are brought to our laboratory in air-tight jars for further evaluation and testing, if necessary. Samples not used in testing are stored for at least six months prior to being discarded. After completion of a test boring, the hole is kept open until a steady state groundwater level is recorded. The hole is then sealed, if necessary, and backfilled.



#### **Laboratory Test Methods**

Soil samples returned to our laboratory are examined by a geotechnical engineer or geotechnician to obtain more accurate descriptions of the soil strata. Laboratory testing is performed on selected samples as deemed necessary to aid in soil classification and to further define engineering properties of the soils. The test results are presented on the soil boring logs at the depths at which the respective sample was recovered, except that grain size distributions or selected other test results may be presented on separate tables, figures or plates as described in this report. The soil descriptions shown on the logs are based upon a visual-manual classification procedure in general accordance with the Unified Soil Classification System (ASTM D-2488-84) and standard practice. Following is a list of abbreviations which may be used on the boring logs or elsewhere in this report.

-200 - Fines Content (percent passing the No. 200 sieve); ASTM D-1140

DD - Dry Density of Undisturbed Sample; ASTM D-2937

Gs - Specific Gravity of Soil; ASTM D-854

k - Hydraulic Conductivity (Coefficient of Permeability)

LL - Liquid Limit; ASTM D-423

OC - Organic Content; ASTM D-2974

pH - pH of Soil; ASTM D-2976

Pl - Plasticity Index (LL-PL); ASTM D-424

PL - Plastic Limit; ASTM D-424

Qp - Unconfined Compressive Strength by Pocket Penetrometer;

Qu - Unconfined Compressive Strength; ASTM D-2166 (soil), D-2938 (rock)

SL - Shrinkage Limit; ASTM D-427

USCS - Unified Soil Classification System; ASTM D-2487, D-2488

w - Water (Moisture) Content; ASTM D-2216

#### Soil Classifications

The soil descriptions presented on the soil boring logs are based upon the Unified Soil Classification System (USCS), which is the generally accepted method (ASTM D-2487 and D-2488) for classifying soils for engineering purposes. The following modifiers are the most commonly used in the descriptions.

For Sands: Modifier Fines, Sand or Gravel Content\*

"with silt" or "with clay" 5% to 12% fines 12% to 50% fines

"with gravel" or "with shell" 15% to 50% gravel or shell

For Silts or Clays: Modifier Fines, Sand or Gravel Content\*

"with sand"

15% to 30% sand and gravel; and % sand > % gravel
"sandy"

30% to 50% sand and gravel; and % sand > % gravel
"with gravel"

15% to 30% sand and gravel; and % sand < % gravel
"gravelly"

30% to 50% sand and gravel; and % sand < % gravel

Other soil classification standards may be used, depending on the project requirements. The AASHTO classification system is commonly used for highway design purposes and the USDA soil textural classifications are commonly used for septic (on-site sewage disposal) system design purposes.

<sup>\*</sup> may be determined by laboratory testing or estimated by visual/manual procedures. Fines content is the combined silt and clay content, or the percent passing the No. 200 sieve.

**BORING LOCATION:** see Figure 1

GROUND SURFACE ELEVATION:

VATER TABLE DEPTH: 3.1

DATE DRILLED: 1/25/10 START:

TIME:

FINISH:

**DATE:** 1/25/10

CLIENT: HDR Engineering, Inc.

PROJECT: CCSWDC Phase 1 Landfill Gas Control System

LOCATION: Knights Trail Road,

Sarasota County, Florida

DRILL CREW: DP/MO

LOGGED BY: DP

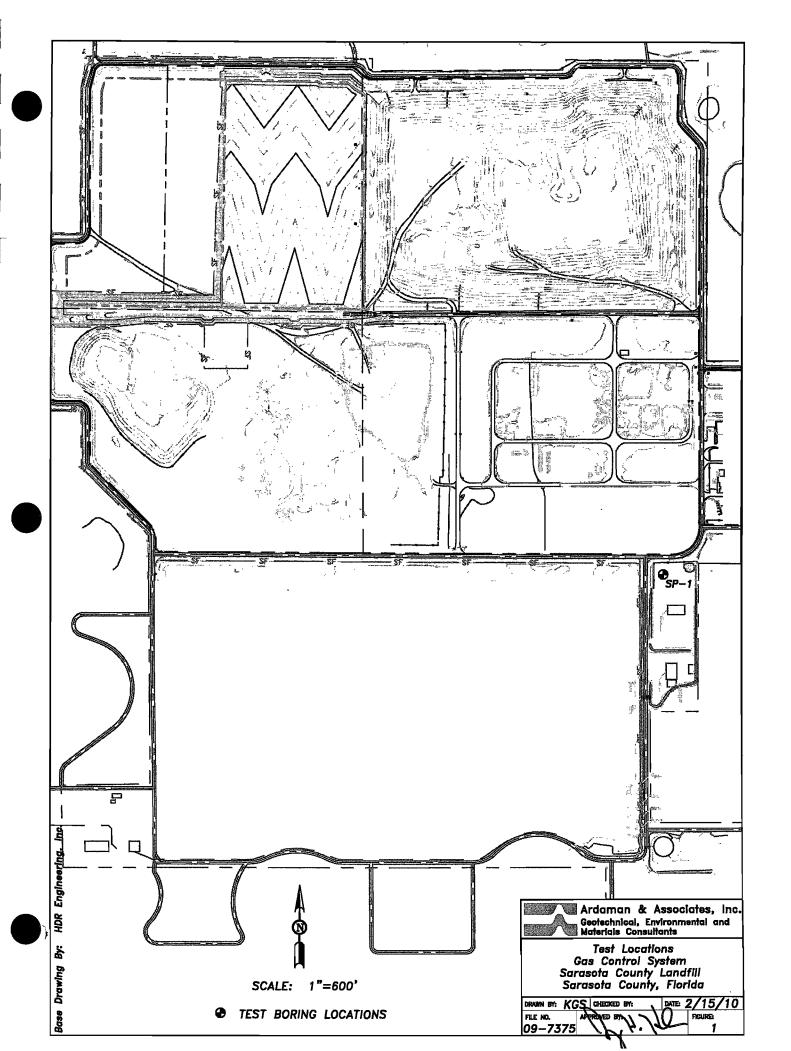
DRILL MAKE & MODEL: \_\_\_\_CME-45 AW BIT: 2-3/8" tricone DRILLING RODS: DRILLING METHOD: rotary with SPT **WEATHER CONDITIONS:** WATER CONTENT (%) N-VALUE GRAPHIC LOG PLAST. INDEX SAMPLE NO. LIQUID LIMIT Ë ORGANIC PERCENT FINES **NSCS** DEPTH, **SOIL DESCRIPTION** SPT 0 SP-SM dark grayish brown fine sand with silt (fill) 15 2 13 SM pale grayish brown silty fine sand (fill) 32 3 SP-SM dark gray fine sand with silt SP-SM gray fine sand with silt 29 5.2 4 5 SP-SM dark brown fine sand with silt ․5 22 6 14 8 12 9 SP-SM gray fine sand with silt 10 14 10 ML light gray to white calcareous silt 56 11 15 (trace shell) ML light gray sandy silt (trace shell & phosphate) 36 12 56 20 ML olive brown sandy silt 15 13 51 68 25 14 ROCK gray limerock 50/3" 15 30 ML light gray sandy silt (trace shell & phosphate) CL dark gray lean clay 53 10 16 98 35 PAGE OF

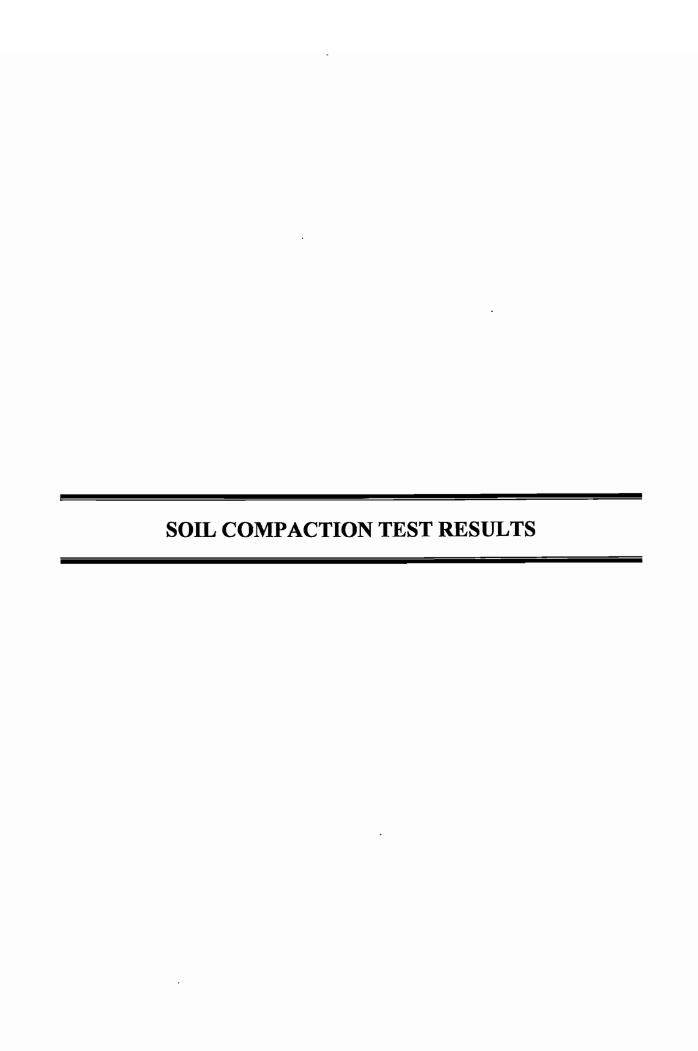
Ardaman & Associates, Inc.

REVIEWED BY: Jerry H. Kuehn, P.E. FILE NO: \_\_\_09-7375 BORING NO.: \_

	<b>DEPTH, FT.</b>	SPT N-VALUE	SAMPLE NO.	GRAPHIC LOG	SOSN	SOIL DESCRIPTION	WATER CONTENT (%)	PERCENT FINES	ORGANIC	Пачір Цміт	PLAST. INDEX
,	40 —	8	17		CL	dark olive gray lean clay					
	45	88/9"	18		ROCK	pale brown silt  pale brown limerock					
	50 —	50/4"	19		ROCK	pale brown elastic silt  pale brown limerock  end of boring					
	55 —										
	60 —										
	- <b>65</b> -										
	70 —										
	- - <b>75</b> -			,							
	80 —							- DAOF		05	0
F		Ard	aman	& Assoc	ciates, Inc.			PAGE	2	_ OF _	2

REVIEWED BY: Jerry H. Kuehn, P.E. FILE NO: 09-7375 BORING NO.: SP-1







J. ...

# REPORT OF MOISTURE-DENSITY RELATIONS

CLIENT: HDR Engineering, Inc.

5426 Bay Center Drive

Suite 400

Tampa FL 33609-3444

Landfill Gas Control System

4000 Knights Trail Road

Nokomis, Florida

SERVICES: Obtain sample of material used for construction, prepare samples and perform

moisture-density relations test to establish the maximum density and optimum moisture of the

CONTRACTOR:

PROJECT:

DATE SAMPLED: 01/22/2010

SAMPLED BY: SCS

TEST FOR: Backfill/bedding

SAMPLE LOCATION: south of Phase II, east side

of future Phase IV

MATERIAL PREPARATION METHOD:

CLASSIFICATION: SP-S PAGE 1 OF 1

PROJECT NO .: 10-7037

REPORT NO.: 2964

01/25/2010 DATE OF SERVICE:

AUTHORIZATION: PPA

02/05/2010 REPORT DATE:

**PROJECT DATA** 

TEST DATE: 01/29/2010

MATERIAL:

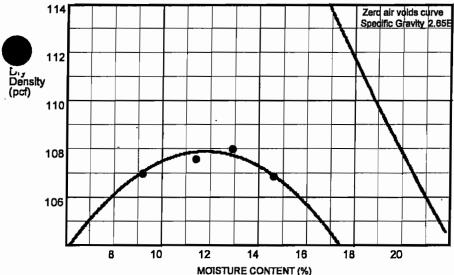
Mottled grayish brown/pale brown slightly silty fine sand with trace yellowish brown

clayey sand

RAMMER TYPE: Mechanical

METHOD OF TEST: AASHTO T180, Meth. D

REPORT OF TESTS



MAXIMUM DENSITY, PCF: 107.9 11.9 **OPTIMUM MOISTURE (%):** 

100.0 % PASSING 3/4: 100.0 % PASSING 3/8: 99.9 % PASSING #4: 97.1 % PASSING #40: 7.4 % PASSING #200:

ADDITIONAL COMMENTS:

See Plate 1 for grain size curve

olclan: Chris Oberhoff, Lab Technician

.t Distribution: (2) HDR Engineering, Inc.

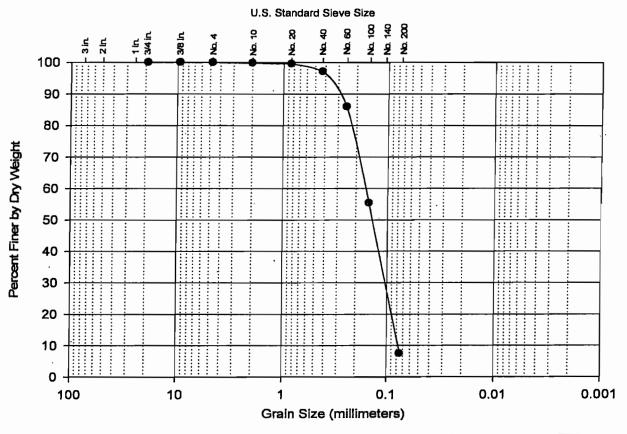
ARDAMAN & ASSOCIATES, INC.

Cert. of Authorization 5950

ry Kuehn

Project ng, PE #35557

#### **GRAIN SIZE DISTRIBUTION CURVE**



Grav	vel		Sand	i	Silt	Clay
Coarse	Fine	Coarse	Medium	Fine		Clay

#### **SAMPLE DATA:**

Sample No.: 3861

Sampling Date: 1/22/10

Soil Description: Mottled grayish brown/pale brown slightly silty

fine sand with trace yellowish brown clayey sand

#### **SIEVE ANALYSIS:**

Sieve Size	Percent Finer
3/4 in.	100.0
3/8 in.	100.0
No. 4	99.9
No. 10	99.8
No. 20	99.5
No. 40	97.1
No. 60	85.9
No. 100	55.4
No. 200	7.4



Landfill Gas Control System 4000 Knights Trail Road Nokomis, Florida

DRAWN BY: MA CHICKED BY JHK DATE: 2/5/10

FILE NO.: APPROVEDBY PLATE: 10-7037



#### REPORT OF IN-PLACE DENSITY

CLIENT: HDR Engineering, Inc.

5426 Bay Center Drive

Suite 400

Tampa FL 33609-3444

PAGE 1 OF 1

PROJECT NO.: 10-7037

REPORT NO.: 3438

04/01/2010 DATE OF SERVICE:

AUTHORIZATION: PPA

04/09/2010 REPORT DATE:

Landfill Gas Control System 4000 Knights Trail Road

DENSITY

Nokomis, Florida

SERVICES: Perform in-place density and moisture content tests to determine the degree of field

compaction.

TEST OF

PROJECT DATA

CONTRACTOR:

M/D #

PROJECT:

GAUGE: Troxler 3430

GAUGE SERIAL NO.: 063

METHOD OF TEST: ASTM D2922 SPECIFICATION: 95% T-180

**ASTM D6938** 

MOISTURE

STANDARD COUNTS MOISTURE - CURRENT:

27

PREVIOUS: 23

DENSITY - CURRENT:

2409

2371 PREVIOUS:

TEST MODE: Direct Transmission

PROBE DEPTH:

12

MOISTURE/DENSITY RELATIONS

**OPTIMUM** MAXIMUM **MOISTURE %** DENSITY pcf REFERENCE REPORT

Backfill/bedding

**MATERIALS** Gr br ssfs w/tr br clayey sand

11.9

107.9

2964

# REPORT OF TESTS

TEST NO	LOCATION	PROBE	LIFT/	M/D	FIELD MOISTURE	OPTIMUM MOISTURE	FIELD DENSITY  (pcf)		MAXIMUM DENSITY	DENSITY	
IVO	LOCATION	DEPTH _	ELEV	NO.	(%)	(%)	WET	DRY	(pcf)	(% max)	
1.	Compressor pad	12	Grade	1	12.0	11.9	115.2	102.9	107.9	95.4	

Test results on this report meet project specifications as noted above.

ADDITIONAL COMMENTS:

Technician: Sal Serbin, Field Technician

Report Distribution: (2) HDR Engineering, Inc.

ARDAMAN & ASSOCIATES, INC.

Cert. of Authorization 5950

rry Kuehn Project Eng, PE #35557



04/16/2010

#### REPORT OF IN-PLACE DENSITY

CLIENT: HDR Engineering, Inc.

5426 Bay Center Drive

Suite 400

PROJECT:

Tampa FL 33609-3444

4000 Knights Trail Road

Nokomis, Florida

Landfill Gas Control System

AUTHORIZATION: PPA 04/29/2010 REPORT DATE:

PROJECT NO.: 10-7037

REPORT NO.: 3595

DATE OF SERVICE:

PAGE 1 OF 2

SERVICES: Perform in-place density and moisture content tests to determine the degree of field

compaction.

PROJECT DATA

GAUGE: CPN CONTRACTOR:

> GAUGE SERIAL NO.: 8413 DENSITY MOISTURE

STANDARD COUNTS METHOD OF TEST: ASTM D2922 **ASTM D6938** 

MOISTURE - CURRENT: 10673 PREVIOUS: 10944 SPECIFICATION: 95% T-180 44691 44739 DENSITY - CURRENT:

PREVIOUS: TEST MODE: Direct Transmission

PROBE DEPTH: 12

MOISTURE/DENSITY RELATIONS OPTIMUM MAXIMUM REFERENCE M/D # **TEST OF MATERIALS** MOISTURE % DENSITY pcf REPORT Backfill/bedding 11.9 107.9 Gr br ssfs w/tr br clayey sand 2964

#### REPORT OF TESTS

TEST NO	LOCATION_	PROBE DEPTH	LIFT/ ELEV	M/D NO	_	FIELD MOISTURE (%)	OPTIMUM MOISTURE (%)	FIELD DE (pcf) WET		MAXIMUM DENSITY (pcf)	DENSITY (% max)
2.	Road gut for 42" RCP at SE corner of Phase I (east side of pipe)	12	Springline	1		12.1	11.9	121.0	107.9	107.9	100.0
3.	Road cut for 42" RCP at SE corner of Phase I (west side of pipe)	12	Springline	1		12.4	11.9	121.5	108.1	107.9	100.2

Test results on this report meet project specifications as noted above.

Report of Tests continued on page 2



# **REPORT OF TESTS**

(continued)

REPORT NO.: 3595

PAGE 2 OF 2

PROJECT NO.: 10-7037

HDR Engineering, Inc.

DATE OF SERVICE: 04/16/2010

OPTIMUM FIELD DENSITY **FIELD** MAXIMUM **FEST PROBE** LIFT/ M/D MOISTURE MOISTURE DENSITY DENSITY NO LOCATION DEPTH ELEV NO (%) (pcf) (% max)\_ (%)

ADDITIONAL COMMENTS:

Technician: Clifford Stratton, Field Technician

Report Distribution: (2) HDR Engineering, Inc. ARDAMAN & ASSOCIATES, INC.

Cert. of Authorization 5950

Jerry Kuehn Project Bog, PE #35557



# REPORT OF IN-PLACE DENSITY

CLIENT: HDR Engineering, Inc.

5426 Bay Center Drive

Suite 400

Tampa FL 33609-3444

4000 Knights Trail Road

Nokomis, Florida

Landfill Gas Control System

PPA AUTHORIZATION: 04/29/2010 REPORT DATE:

10-7037

04/23/2010

3648

PAGE 1 OF 1

PROJECT NO .:

REPORT NO .:

DATE OF SERVICE:

SERVICES: Perform in-place density and moisture content tests to determine the degree of field

compaction.

PROJECT DATA

CONTRACTOR:

METHOD OF TEST: ASTM D2922

SPECIFICATION: 95% T-180

PROJECT:

GAÙGE: CPN

MOISTURE DENSITY

**ASTM D6938** 

GAUGE SERIAL NO.: 6797

STANDARD COUNTS MOISTURE - CURRENT:

9798

PREVIOUS:

9876

DENSITY - CURRENT: TEST MODE: Direct Transmission

34244

PREVIOUS:

34332

PROBE DEPTH:

12

MOISTURE/DENSITY RELATIONS

REFERENCE

M/D # **TEST OF MATERIALS** Base Light gray silty limerock

OPTIMUM MOISTURE % 12.0

MAXIMUM DENSITY pcf 118.7

REPORT

3650

# REPORT OF TESTS

TEST NO	LOCATION	PROBE DEPTH	LIFT/ ELEV	M/D NO	FIELD MOISTURE (%)	OPTIMUM MOISTURE (%)	FIELD DE (pc WET		MAXIMUM DENSITY (pcf)	DENSITY (% max)
4.	Road cut for 42" RCP at SE corner of Phase I	12"	+4' TOP	1	14.7	12.0	129.5	112.9	118.7	95.1
5.	Same as above	12"	+4' TOP	1	15.8	12.0	130.7	112.9	118.7	95.1

Test results on this report meet project specifications as noted above.

ADDITIONAL COMMENTS:

TOP = top of pipe

Technician: Mike Marcouiller, Field Technician

Report Distribution: (2) HDR Engineering, Inc.

ARDAMAN & ASSOCIATES, INC.

Cert. of Authorization 5950

Kuehn Project Eng, PE #35557





CLIENT: HDR Engineering, Inc.

5426 Bay Center Drive

Suite 400

Tampa FL 33609-3444

Landfill Gas Control System

4000 Knights Trail Road

Nokomis, Florida

SERVICES: Obtain sample of material used for construction, prepare samples and perform

moisture-density relations test to establish the maximum density and optimum moisture of the

material.

CONTRACTOR:

PROJECT:

DATE SAMPLED: 04/23/2010

SAMPLED BY: Mike M.

TEST FOR: Base

SAMPLE LOCATION: Stockpile, Ph. I, SE corner

MATERIAL PREPARATION METHOD: Dry

CLASSIFICATION: SM with gravel

PAGE 1 OF 1

PROJECT NO.: 10-7037 REPORT NO.: 3650

04/23/2010 DATE OF SERVICE:

PPA AUTHORIZATION:

04/29/2010

REPORT DATE:

TEST DATE: 04/26/2010

MATERIAL:

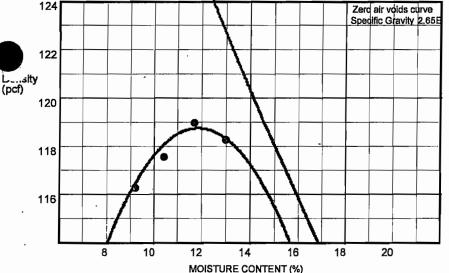
Light gray silty limerock

PROJECT DATA

RAMMER TYPE: Mechanical

METHOD OF TEST: AASHTO T180, Meth. D





MAXIMUM DENSITY, PCF: 118.7 12.0 OPTIMUM MOISTURE (%):

ADDITIONAL COMMENTS:

See Plate 1 for gradation

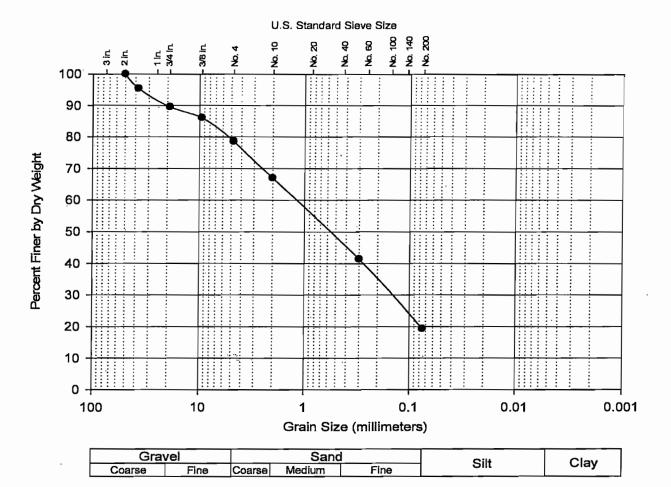
hnlcian: Chris Oberhoff, Lab Technician

t Distribution: ⊀ Engineering, Inc.

ARDAMAN & ASSOCIATES, INC. Cert. of Authorization 5950

Project Eng, PE #35557

#### **GRAIN SIZE DISTRIBUTION CURVE**



#### **SAMPLE DATA:**

Sample No.:

3958

Sampling Date:

4/23/10

Soil Description:

Light gray moderately silty fine sand with

limerock

#### **SIEVE ANALYSIS:**

Sieve Size	Percent Finer
2 in.	100.0
1-1/2 in.	95.4
3/4 in.	89.5
3/8 in.	86.1
No. 4	78.6
No. 10	67.0
No. 50	41.4
No. 200	19.3



Landfill Gas Control @ CCSWDO 4000 Knights Trail Road Sarasota County, Florida

DRAWN BY: MA CHECKED BY: JHK DATE: 4/29/10
FILE NO.: APPROVED BY: PLATE.

10-7037



05/03/2010

# REPORT OF IN-PLACE DENSITY

CLIENT: HDR Engineering, Inc.

5426 Bay Center Drive

Suite 400

PROJECT:

Tampa FL 33609-3444

4000 Knights Trail Road

Nokomis, Florida

Landfill Gas Control System

PPA AUTHORIZATION: 05/18/2010 REPORT DATE:

REPORT NO.: 3708

DATE OF SERVICE:

PROJECT NO .: 10-7037

PAGE 1 OF 2

SERVICES: Perform in-place density and moisture content tests to determine the degree of field compaction.

PROJECT DATA

GAUGE: Troxler 3430 CONTRACTOR:

> GAUGE SERIAL NO.: 063 DENSITY MOISTURE

STANDARD COUNTS METHOD OF TEST: ASTM D2922 **ASTM D6938** 

24 MOISTURE - CURRENT: 30 PREVIOUS: SPECIFICATION: 95% T-180 2431 2511 DENSITY - CURRENT: PREVIOUS:

TEST MODE: Direct Transmission

PROBE DEPTH: 12

MOISTURE/DENSITY RELATIONS OPTIMUM MAXIMUM REFERENCE M/D # **TEST OF** MATERIALS MOISTURE % DENSITY pcf REPORT Base 12.0 118.7 3650 Light gray silty limerock

# REPORT OF TESTS

TEST NO	LOCATION	PROBE DEPTH	LIFT/ ELEV	M/D NO	FIELD MOISTURE (%)	OPTIMUM MOISTURE (%)	FIELD DI (pc WET	•	MAXIMUM DENSITY (pcf)	DENSITY (% max)
6.	Road crossing, Sta. 8+30, 42" RCP header	12	Grade	1	9.9	12.0	128.7	117.1	118.7	98.7
7.	Road crossing, Sta. 9+50, 30" sump header	12	Grade	1	10.0	12.0	130.7	118.8	118.7	100.1
8.	Road crossing, Sta.	12	Grade	1	9.7	12.0	130.4	118.9	118.7	100.2

Test results on this report meet project specifications as noted above.

Report of Tests continued on page 2



# REPORT OF TESTS

(continued)

REPORT NO.: 3708

PAGE 2 OF 2

PROJECT NO .: 10-7037

HDR Engineering, Inc.

DATE OF SERVICE: 05/03/2010

**FIELD** OPTIMUM FIELD DENSITY MAXIMUM EST M/D PROBE LIFT/ MOISTURE MOISTURE DENSITY (pcf) DENSITY NO LOCATION DEPTH **ELEV** WET NO (%) (%) (pcf) (% max)

**ADDITIONAL COMMENTS:** 

Technician: Sal Serbin, Field Technician

Report Distribution: (2) HDR Engineering, Inc.

ARDAMAN & ASSOCIATES, INC.

Cert. of Authorization 5950

Terry Kuehn

Project Eng, PE #35557



#### REPORT OF IN-PLACE DENSITY

HDR Engineering, Inc. CLIENT:

5426 Bay Center Drive

Suite 400

Tampa FL 33609-3444

PAGE 1 OF 1

10-7037 PROJECT NO .:

3714 REPORT NO.:

05/06/2010

DATE OF SERVICE: **AUTHORIZATION:** 

PPA

REPORT DATE:

05/18/2010

PROJECT: Landfill Gas Control System

4000 Knights Trail Road

Nokomis, Florida

SERVICES: Perform in-place density and moisture content tests to determine the degree of field

compaction.

PROJECT DATA

CONTRACTOR:

METHOD OF TEST: ASTM D2922

SPECIFICATION: 95% T-180

GAUGE: CPN

DENSITY

MOISTURE

GAUGE SERIAL NO.: 8413

**ASTM D6938** 

STANDARD COUNTS

10933

PREVIOUS:

11388

MOISTURE - CURRENT: DENSITY - CURRENT:

44909

PREVIOUS:

45433

TEST MODE: Direct Transmission

12 PROBE DEPTH:

OPTIMUM

MOISTURE/DENSITY RELATIONS

MAXIMUM DENSITY pcf

REFERENCE REPORT

Base

M/D #

TEST OF **MATERIALS** Light gray silty limerock MOISTURE % 12.0

118.7

3650

REPORT OF TESTS

TEST NO	LOCATION	PROBE DEPTH	LIFT/ ELEV	M/D NO	FIELD MOISTURE (%)	OPTIMUM MOISTURE (%)	FIELD DE (pcl WET		MAXIMUM DENSITY (pcf)	DENSITY (% max)
9.	Road cut at sleeve	12	Grade	1	10.7	12.0	131.7	119.0	118.7	100.3

Test results on this report meet project specifications as noted on page 1.

ADDITIONAL COMMENTS:

"C", Sta. 18+51

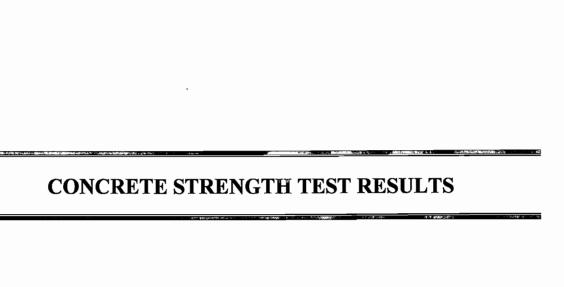
Technician: Clifford Stratton, Field Technician

Report Distribution: (2) HDR Engineering, Inc.

ARDAMAN & ASSOCIATES, INC.

Cert. of Authorization 5950

ry Kuehn Eng, PE #35557 Project







#### REPORT OF CONCRETE COMPRESSIVE STRENGTH

HDR Engineering, Inc. CLIENT:

5426 Bay Center Drive

Suite 400

Tampa FL 33609-3444

Landfill Gas Control System PROJECT:

4000 Knights Trail Road

Nokomis, Florida

SERVICES: Sample concrete at location of placement, perform required field tests, prepare and test

concrete compressive strength specimens.

PROJECT DATA

CONTRACTOR:

CONCRETE SUPPLIER: Tarmac

PLANT: 684 CLASS OF CONCRETE:

SPECIFICATION REQUIREMENTS

STRENGTH: 4000psi @ 28 DAYS

SLUMP: 5 AIR:

METHOD OF TEST SAMPLING: ASTM C-172 MOLDING & CURING: ASTM C31

SLUMP: ASTM C143 TEMPERATURE: **ASTM C1064** 

AIR CONTENT:

UNIT WEIGHT: CAPPING/PADS

**ASTM C1231** TESTING: ASTM C39

PAGE 1 OF 1

PROJECT NO .: 10-7037 3139 REPORT NO.:

02/22/2010 DATE OF SERVICE:

PPA AUTHORIZATION:

03/22/2010 REPORT DATE:

8JOXOB MIX DESIGN NUMBER:

DATE OF PLACEMENT: 02/22/2010

BY: Geoff Sandell TIME SAMPLED: 7:55

BATCH TIME: 7:25

60 CONCRETE: 64 TEMPERATURE (DegF) - AIR:

WEATHER: Clear

6.00 MEASURED SLUMP (in.):

AIR CONTENT (%): UNIT WT (pcf)

TICKET NO: 840201 **TRUCK NO: 1646** 

WATER ADDED @ SITE (gal) 5 LOCATION OF PLACEMENT

Equipment slab

#### REPORT OF TESTS

CONCRETE COMPRESSIVE STRENGTH - 4 x 8 CYLINDERS

CYLINDER MARKED			DATE	AGE	DIAMETER	AREA	MAXIMUM LOAD	COMPRESSIVE STRENGTH		
	SET	MARK	TESTED	(days)	(in.)	(sq.in.)	(lbs. force)	(psi)	FRACTURE TYPE	REMARKS
	1	LG1	03/01/2010	7	4.050	12.88	51920	4030	TYPE 2	
	1	LG2	03/08/2010	14	4.060	12.95	58400	4510	TYPE 2	
	1	LG3	03/22/2010	28	4.050	12.88	65940	5120	TYPE 2	
	1	LG4	Hold							

28 day compressive strength results comply with specified strength.

Technician: Geoff Sandell, Field Technician

Report Distribution: (2) HDR Engineering, Inc.

> Type 1 Type 2 Type 3 Type 4 Type 5 Type 6 Side Cone Cone Columnar Shear Top. Fracture Fracture Split

ARDAMAN & ASSOCIATES, INC.

Cert. of Authorization 5950

Craig Obrecht Project Eng, PE #55451



# ATTACHMENT G PHASE I LANDFILL GAS COLLECTION AND CONTROL SYSTEM AS-BUILT DRAWINGS

Full size drawings are provided as a separate bound document