

Ratliff Engineering & Consulting, PLLC

September 1, 2010

Ming-Tai Chao, P.E.
Environmental Engineer II
Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646



Re: Permit # 98-01, DIN 7315 – Wilson County Landfill, Wilson County
Requested Revisions to Record Document Report

Fac/Perm/Co ID #	Date	Doc ID#
98-01 mjchao	09/08/10	DIN 115740

Dear Mr. Chao:

On behalf of MP Wilson, LLC, Ratliff Engineering & Consulting is providing the following information as requested in your email dated August 26, 2010:

1. (Section 3, the 2nd paragraph, on page 3-4) The description of completion of Well GW31 is not consistent with the well logs in Section 3 and the field daily log dated July 13, 2010 in Section 2. Please clarify.

Page 3-4 has been revised to indicate well GW31 has two bentonite seals with two screened intervals with stone and soil placed in between as indicated in the field daily log.

2. (Section 3) The screen length of the completed Well GW29 shall be 14 feet (ref. the July 12 daily log), not 7 feet. Please correct this typo.

The log for Well GW 29 has been corrected to reflect a screen length of 14 feet.

3. (Section 4) The “48-inch **CS-1** sump, 16 feet deep” tested on 08/21/10 is reported on the South Side Test Results. The CS-1 is a typo. CS-2 is the correct ID for the sump. Please correct this typo.

The South Side Test Results has been corrected to reflect CS-2.

4. (Section 4) The Note #10 in the As-built Drawing Sheet 6/6 specifies that “Lengths of pressure testing not to exceed 500 linear feet without owner’s approval.” The test reports indicate that piping lengths, all but one, subjected to pressure testing exceeding 500 feet. Please provide an owner’s approval of this deviation according to the specification stated in Note #10.

MP Wilson, LLC has provided a letter approving air pressure tests in excess of 500 feet in length.

5. (Section 8) The As-built drawing must be signed, dated, and sealed by a professional engineer registered in the State of North Carolina.

As-built Sheets 1, 4, 5 and 6 have been signed, dated and sealed by a NC professional engineer. As-built Sheet 2 is signed by the NC professional surveyor and Sheet 3 is unsigned per our phone conversation.

6. (Section 8) The figure references shown on the drawings Sheet 4/6 and Sheet 6/6 are incorrect. Please make necessary corrections.

The figure references on Sheet 4/6 and Sheet 6/6 have been corrected.

7. (Section 11) Please address the following concerns:

- i. According to the As-built drawing Sheet 2/6, the number of the extraction wells of the constructed LFGCCs is 30, not 33. Please correct this typo throughout the Section 11.

There are 35 total wells shown on Sheet 2/6. Of the existing wells, GW-1, GW-2, GW-3 and GW-13 were not included in the LFGCCS. These wells will remain capped. There are 31 active wells in the system including Well GW-PVC1. The typo has been corrected on Pages 8 and 9.

- ii. (Sub-Section 3.2) Please provide the "Gas Well Liquid Level" form to Appendix C.

Gas Well Liquid Level form has been provided.

- iii. (Sub-Section 3.2) Please add the requirements to ensure the well identification tags are well maintained.

A requirement for maintenance of well tag identification has been added to Page 16.

- iv. (Sub-Section 4.1) Please provide the As-built drawing (s) of Flare Station/ Blower/ Lock-out sump/ Data collection/ monitoring system/ Emergency shutdown valves or devices. And the reference of the flare station to As-built Sheet 2 (on Page 17) is incorrect.

As we discussed on the phone, the flare is to be installed in the next two weeks at which time MP Wilson will commence startup and testing. Figure 3

referenced in Sub-Section 4.1.1 will be furnished within 2 weeks of installation. The Flare Site has been shown on As-built Sheet 2.

- v. (Sub-Section 10) Will the technician (s) be on-site 24/7? Please describe the working schedule of the LFG Technician.

The work schedule for the LFG Technician has been added to Page 50.

- vi. (Sub-Section 12 – Landfill Fire) Pursuant to NC Solid Waste Management Rule 15A NCAC 13B .1626(5)(d), the proper notifications must be stated in this sub-section. And add the DWM contact info to Section 12.6 – Solid Waste Section: (919)508-8400; Ben Barnes at Raleigh Central Office: (919)621-3680, & Dennis Shackelford at Fayetteville Regional Office: (910)433-3349. The emergency contact info must be posted in the landfill office, scale house, and the fencing enclosing the flare station.

The requested contact information has been added to the Emergency Contact List and placards are being made to post in the requested locations. Pages 57 and 58 have been revised and Pages 57-64 have been reprinted due to spacing. A copy of the placard has also been included.

- vii. (Sub-Section 16) Please provide a cost estimate associated with the system decommissioning.

A decommissioning cost estimate has been provided.

- 8. (Section 13) Please provide a time frame for the submittal of condensate sample results and the final approval letter from the City of Wilson POTW to DWM (For example: 14 working days after the samples results is available and 7 day after the approval letter is issued by City of Wilson). Additionally, the approve letter and the sample results must be placed to the Operating Record at the landfill facility. Please add these requirements to this section.

A timeline has been provided on Page 13-1 for obtaining the final approval letter from the City of Wilson.

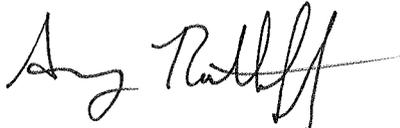
In addition to the requested revisions above, revised Pages 11-67, 11-69 and 11-70 have also been included to correct typos.

A hardcopy of the revised Pages and Drawings of the report are attached for your review and a CD with complete report.

MP Wilson anticipates that the flare will be installed in the next two weeks. Please let this letter serve as our notice to begin startup and testing on or about September 15, 2010.

If you have any questions about these revisions or need any additional information, please do not hesitate to contact me at amy@ratliffengineering.com or 919-294-4770.

Regards,

A handwritten signature in black ink, appearing to read "Amy Ratliff". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Amy Ratliff, PE
CEO, Chief Civil Engineer

Ratliff Engineering & Consulting, PLLC

Cc: James Voss, President - MP Wilson, LLC
Andy Davis, Solid Waste Director - Wilson County
Richard King, Principal - Applied Testing & Geosciences

The screened portion of the well was backfilled with two (2)-inch clean stone to a minimum depth of one (1) foot above the top of screen. To prevent clogging of the screened portion, a fabric barrier (geo-fabric) was placed over the stone prior to the placement of one (1) foot of clean backfill soil (obtained from on-site stock). A two (2)-foot bentonite seal was placed and hydrated above the soil, and additional soil was placed in the annular space to a depth of 4 feet below grade. A second bentonite seal was installed and hydrated from four (4) feet below grade to two (2) feet below grade, and the remaining annular space was backfilled with clean fill soil. This upper bentonite seal was emplaced to repair the clay cap penetrated by the bucket auger boring.

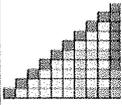
Two of the wells (GW30, and GW31) were completed with two screened intervals. Construction of these wells was similar to the single-screened wells with the addition of a third bentonite seal between the screened intervals for well GW30. For GW31 stone and soil were place between the two screened intervals.

Each well was completed at the surface with an approximately three (3)-foot stickup, and a Lan-Tech manifold to connect to the lateral pipe and to allow sampling of the well.



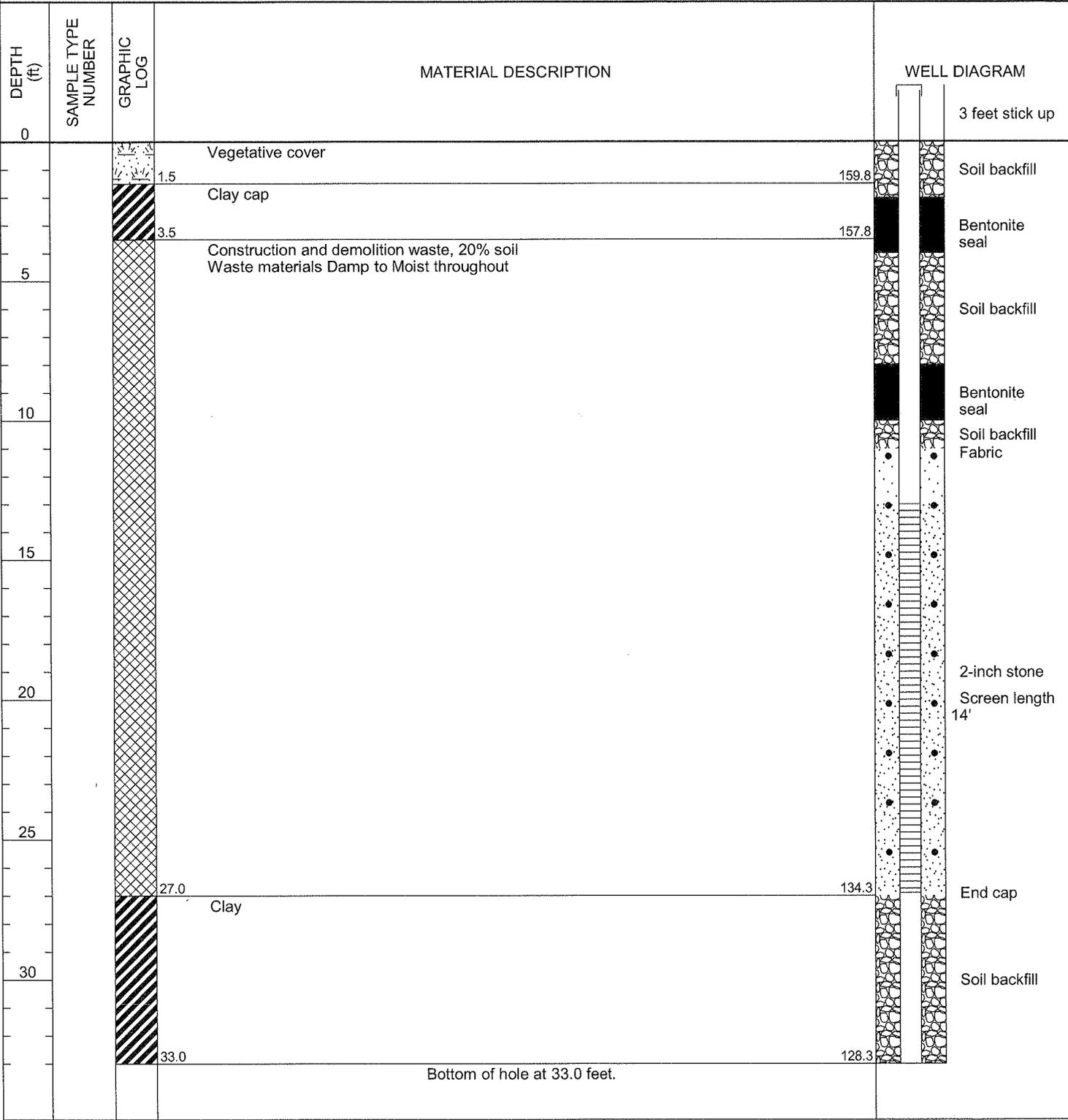
The typical well construction plan for single and double screened wells is attached to this section.

All waste material arisings from the new gas wells were stored in roll-off containers, covered with tarpaulins to prevent rain ingress and transported to a North Carolina approved municipal waste landfill by Waste Industries of Wilson NC who were subcontracted by Chandler Construction.



Applied Testing & Geosciences
 401 E. Fourth Street, Building 12B
 Bridgeport PA 19405
 Telephone: 610-313-3227

CLIENT <u>MP Wilson, LLC</u>	PROJECT NAME <u>Wilson County Landfill Gas to Energy</u>
PROJECT NUMBER <u>10838</u>	PROJECT LOCATION <u>Wilson County, North Carolina</u>
DATE STARTED <u>07/12/10</u> COMPLETED <u>07/12/10</u>	GROUND ELEVATION <u>161.25 ft</u> HOLE SIZE <u>36"</u>
DRILLING CONTRACTOR <u>Kellett's</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Bucket Auger</u>	AT TIME OF DRILLING <u>---</u>
LOGGED BY <u>M. Flanagan</u> CHECKED BY <u>J. Heely</u>	AT END OF DRILLING <u>---</u>
NOTES <u>Well constructed with 6" sch 80 pipe and 6" sch 80 perforated pipe.</u>	AFTER DRILLING <u>---</u>



GENERAL BH / TP / WELL 10838 WILSON COUNTY NC.GPJ MERGEDPADEP.GDT 08/16/10



Construction Services Inc.

1511 Ninety Six Hwy
Ninety Six, S.C.

GAS COLLECTION SYSTEM PRESSURE TEST

Project Wilson County Landfill

Location: From the North Side of the South landfill starting at the 6" & 8" valves incorporating all valves, sample ports, well risers, 4", 6", 8" pipe and CS-2, Stopping at the 8" valve on the South side of the North landfill.

Job #: 1047 Pipe Material: HDPE Type of joints: Fused

Test Time Duration: All test were 60 minutes Test Type Air Test Supervisor: Robert H. Geitys Jr.

South Side Test Results

Date:	Test Temperature	Line Size	Total Length	Test Pressure	Start Time	End Time	Pressure Loss	TEST RESULTS:
8/1/2010	91	8 inch	3706	5 PSI	11:30 am	12:30 pm	0	PASSED <input checked="" type="checkbox"/> FAILED <input type="checkbox"/>
7/30/2010	89	6 inch	2807	5 PSI	10 am	11 am	0	PASSED <input checked="" type="checkbox"/> FAILED <input type="checkbox"/>
7/30/2010	89	4 inch	648	5 PSI	10 am	11 am	0	PASSED <input checked="" type="checkbox"/> FAILED <input type="checkbox"/>
Date:								PASSED <input type="checkbox"/> FAILED <input type="checkbox"/>
Date:								PASSED <input type="checkbox"/> FAILED <input type="checkbox"/>
Date:								PASSED <input type="checkbox"/> FAILED <input type="checkbox"/>
Date:								PASSED <input type="checkbox"/> FAILED <input type="checkbox"/>
8/1/2010	93	48" CS-2 Sump, 16 feet deep		5 PSI	1:30 pm	2:30 pm	0	PASSED <input checked="" type="checkbox"/> FAILED <input type="checkbox"/>

Remarks:

Approved by:

Inspector

Engineer



MP Wilson, LLC
13801 Reese Blvd. W, Suite 110
Huntersville, NC 28078
(phone) 704 659 2580
(fax) 704 659 2585

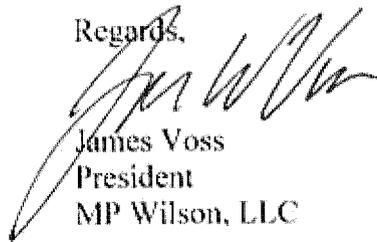
August 27, 2010

To Whom It May Concern:

This letter is to serve as confirmation that Chandler Construction Services Inc. had the approval of MP Wilson, LLC to do air pressure tests of LFG header and lateral piping in excess of 500 feet in length.

If you have any questions, please contact me at 704-659-2580.

Regards,

A handwritten signature in black ink, appearing to read "James Voss".

James Voss
President
MP Wilson, LLC

To meet these objectives, this document describes operation, maintenance and monitoring (data collection) at the Project. These procedures follow Climate Action Reserve (CAR) protocol, version 3.0.

The data collection is necessary for compliance with Project environmental permits and quantification of greenhouse gas emissions reductions resulting from the flaring of Landfill Gas (LFG) at the landfill.

The Project reduces the WCSL greenhouse gas emissions (GHG) by destroying the methane – a process by which MP Wilson LLC. is able to produce verifiable and ultimately marketable and serialized, Carbon Reduction Tons (CRTs) in accordance with the Climate Action Reserve’s (“Reserve”) Landfill Project Reporting Protocol (LPRP) V3.0.

2. Project Location and Description

The Project is located at the Wilson County Sanitary Landfill (WCSL), 4537 Landfill Road, Wilson, NC (see Figures 1-1 and 1-2 for location of the project). The WCSL is closed and is in the in Post Closure period. As such it longer accepts any waste streams. The WGS LFGD Project captures and combusts landfill gas (LFG) collected from the (WCSL) utilizing a high efficiency Flare.

2.1 Site Description

The LFGCCS comprises gas wells, conveyance piping (headers and laterals), a landfill gas Flare and a condensate handling system (see As-Built Sheets 1 through 6). The LFGCCS includes 31 vertical gas extraction wells spaced throughout the landfill. The wells are connected to a series of gas conveyance piping systems, and the gas is carried to the blower/Flare station located at the northwest end of the site, outside the limits of waste, along the main site access road. The blower/Flare system induces a vacuum within the waste mass to extract the LFG and to direct it

to the Flare for combustion. Condensate is collected throughout the collection system and is directed to the condensate sumps for ultimate disposal at the City of Wilson Water Reclamation Facility (POTW).

The landfill gas generation has been estimated to be 600 to 1000 scfm. The volume of LFG extracted will vary based on site conditions, including the state of the collection system, the current and future maintenance performed, the operating and balancing efforts, and the characteristics and age of the deposited waste.

2.2 Project Components

The Project consists of the following components:

- Gas collection system piping including 31 vertical gas extraction wells spaced throughout the landfill;
- Conveyance piping systems;
- Blower/Flare station located at the northwest end of the site, outside the limits of the waste, along the main site access road;
- Condensate collection system (with disposal to the Wilson POTW);
- Monitoring equipment including gas temperature sensor, gas pressure sensor, mass flow meter, gas analyzer, thermocouple, multi-function data acquisition module, etc.;
- Foundations, buildings, storage unit fencing and other related structures associated with the Project.

2.3 Equipment Manuals

Manuals for LFG extraction and destruction equipment; and for meters and calibration equipment are contained in Appendix B.

in the gas wells will be pumped out as required and disposed with the condensate. Records of Liquid Levels will be maintained on the Gas Well Liquid Level Form (see Appendic C);

- Checking clamp tightness on all well heads (as indicated by gas quality at each well and every 6 months if required);
- Completing visual observations of Canoflex pipe length and adjusting for landfill settlement, condensate pooling, deterioration etc;
- Determine if condensate pooling is impeding gas flow through headers or laterals and arranging for necessary repairs;
- Recording all of the above activities in the Daily Log sheets, including the date, actions taken, observations, and the LFG Technician's full name and signature.
- Well identification tags shall be inspected a minimum of every 6 months and shall be replaced if damaged or losing legibility.

3.3 Project Spare Parts

To avoid and reduce downtime, a spare parts inventory is kept on site. This inventory includes maintenance items for the following:

- Lantec well head units;
- Spare GEM 2000 sampling ports for the Lantec units;
- Canoflex gooseneck connections;
- Flare Maintenance items;
- Calibration items;
- Tools (drills Taps Dies and wrenches etc).

The Landfill Gas Technician is responsible for requesting spare parts in a timely manner and keeping the spare parts inventory complete.

- Recording all system operational data in log books or forms;

Downloading data files from the OPC server via internet connection is the responsibility of the Data Technician who is also responsible for uploading RAW data files to X-Cd.com and processing the data files for CO₂ equivalent tones. The Data Technician is also responsible for completing QA checks on the data files, and keeping the data upload log file up to date.

The LFG Technician will be on site during the initial startup and testing as needed to monitor the landfill gas extraction and piping network and Flare. After initial startup is complete the LFG Technician will monitor the site every 2-3 days until it is determined that the LFGCCS is consistently operating within normal parameters. At that time, the on-site visits will drop to a minimum of once a week with additional visits to the site as deemed necessary.

The LFG Technician will be in constant contact with the site via notification by email (using MAIL NOTIFIER software), and daily checks on internet connection to the on-site computer using an OPC client. This will allow the technician to monitor the site remotely and if necessary schedule additional visits to the site.

The Wilson County landfill will also have personnel on site during all business hours. The landfill operates from 8:00 AM to 5:00 PM Monday through Friday and Saturday from 8:00 AM to 12:00 PM, except on holidays. The landfill personnel will notify the LFG Technician if any anomalies are noted with the system during the course of their normal work activities.



Emergency Contact Information for the Landfill Gas Collection and Control System

Emergency Response Number – (704) 659-2580 (MP Wilson LLC) and 911

Law Enforcement/Fire/Rescue/Ambulance – 911

NC Division of Waste Management - Solid Waste Section (919) 508-8400

NC DWM Raleigh Central Office – (919) 621-3680 (Ben Barnes)

NC DENR Land Quality Section – (910) 433-3349 (Dennis Shackelford)

MP Wilson Landfill Gas Technician (Cell) – (704) 340-8037

Wilson County Landfill Manager (252) 399-2808

- Any other condition that jeopardizes the safe operation of the system

Responses to emergencies should be predicated on the following priorities:

- (1) Safety for the public and MP Wilson and Wilson County operating employees
- (2) Protection of public property and Wilson County property
- (3) Restoration of gas service to the Flare

12.5 Responsibilities

Responsibility for implementing the emergencies procedures will ultimately be with all gas system operations personnel. In emergency situations, the direction and coordination of the overall emergency response will be the responsibility of the Manager/Supervisor. The success of an emergency operation is often largely dependent on the initial actions of the first gas system operations personnel at the scene of an incident. Regardless of the chain of command, the first gas system operation personnel at the scene will take command and initiate appropriate response actions immediately. As more gas system operations personnel arrive at the scene, command duties can be shifted up the chain of command.

The Manager/Supervisor will be responsible for maintaining the Emergencies Plan and for supervising the training, public education, and other provisions of the plan.

The Manager/Supervisor also has the responsibility of insuring that this Emergency plan is available to all MP Wilson personnel who might have to respond to an emergency.

12.6 Emergency Response Numbers

Pursuant to NC Solid Waste Management Rule 15A NCAC 13B.1626(5)(d) proper notification must be made to the following:

Emergency Response Number – (704) 659-2580 (MP Wilson LLC) and 911

Law Enforcement/Fire/Rescue/Ambulance – 911

NC Division of Waste Management - Solid Waste Section (919) 508-8400

NC DWM Raleigh Central Office – (919) 621-3680 (Ben Barnes)

NC DENR Land Quality Section – (910) 433-3349 (Dennis Shackleford)

MP Wilson Landfill Gas Technician (Cell) – (704) 340-8037 (Ryan Hennessy)

Wilson County Landfill Manager (252) 399-2808 (Andy Davis)

The emergency contact info must be posted in the landfill office, scale house and on the fencing enclosing the flare station.

12.7 Receiving Emergency Notifications

Notice of an occurrence that is suspected to be an emergency or is indeed an emergency will normally be received at the emergency telephone number (as posted on the marker posts, provided to the public, provided to excavators, and provided to entities in notices). The person receiving notice needs to obtain as much information as possible.

The person receiving notice will need to make a judgment if the notice indicates an actual emergency, including the potential for dispatching someone to the scene for an accurate determination. (Gas systems typically receive notice for a number of false indicators such as skunks, rotten food, etc.) Nevertheless, the person receiving notice should have the philosophy of erring on the side of safety.

12.8 Initial Response to Emergency Notification

The person receiving the emergency notification will obviously be in a position to make the first response to an emergency situation. Appropriate response includes:

- If appropriate, tell person reporting emergency to keep the scene area clear of people and to keep ignition sources from area.
- Contact Emergency Standby personnel advising them of the report and dispatch them to the scene to determine its severity and the actions required to protect life and property if necessary.
- Contact Manager/Supervisor to report findings thus far and await further instruction.
- Keep communication lines open pending a notification from the first responder who may need further assistance.
- If appropriate, contact emergency response agencies and request that ambulance, fire department or police respond to the emergency scene or request that they stand by to respond as needed.
- Dispatch personnel to system origin anticipating a system shut down.

12.9 Action by Gas System Operations Personnel

As soon as possible the Manager/Supervisor will assume the responsibility for directing and coordinating the emergency response. Appropriate response will depend on the situation but consideration should be given to the following:

- Assess the situation and the scope of the emergency.
- Dispatch MP Wilson or their designated operating personnel to the scene.
- Establish communications as needed.
- Request emergency response agencies (fire department, police, and ambulance) to respond at the scene as needed.
- Notify LOCAL GAS SYSTEM if they have any gas lines in the vicinity of the emergency.
- Close hand valve at Flare (HV-100) to isolate the pipeline.
- Go to the Flare station Landfill and close main 10 inch valve which will stop the flow of gas into the system.

- If needed, close additional valves in the system to isolate sections of the gas collection system.
- Continue to monitor the situation and make safe any actual or potential hazard.

12.10 On the Scene Response

MP Wilson or their designated operating personnel at the scene of an emergency shall take action to first protect people and then property. On the scene responses include:

- Stay as calm as possible.
- Assess situation.
- If necessary, evacuate and/or assist all people to safety.
- Assess what can be done to reduce the risk to people and property.
- Take steps to block off the hazardous area to traffic and people.
- If necessary, notify emergency response agencies (fire, police, and ambulance) or if they are at the scene, coordinate with and assist the emergency response personnel.
- Establish communication with the Manger/Supervisor if they are not at the scene. Report on the scene needs and receive instructions as appropriate.
- Monitor the situation on the scene until any actual or potential hazard is made safe or until the Manager/Supervisor issues instructions to leave the scene.

12.11 News Media Interface

During an emergency, inquiries from the news media should be referred to the Manager/Supervisor. Verbal or written releases to the news media should use the following guidelines:

- Make factual statements.
- Allay unfounded fears.

- Do not jump to conclusions, make reckless comments, or speculate.
- Precisely explain what the public can do to help.
- Explain specifically what MP Wilson is doing in response to the emergency.
- Present most encouraging viewpoint of situation that facts will allow.

12.12 Post Emergency Activities

This section explains reporting requirements related to Incidents and Safety Related Conditions.

Emergency Report – A comprehensive report of each emergency will be prepared. The report shall contain a complete log of events including:

- Initial Notification of Emergency Form
- Details of injuries and property damage
- Responses and actions taken
- Any other significant known facts regarding the emergency
- Results of any investigations of failures (refer to paragraph below)
- Actions taken to restore gas system to operation

Drug And Alcohol Testing –After an accident, MP Wilson may drug and alcohol test each employee whose performance either contributed to an accident or cannot be completely discounted as a factor the accident. These drug tests shall be administered as soon as possible, but no later than 32 hours after an accident.

MP Wilson may decide not to test, but such a decision must be based on the best information available after the accident. This information must indicate the employee's performance could not have contributed to the accident or, because of the time between that performance and the accident, a drug test would not be effective in determining whether that performance was affected by drug use.

Emergency Response Critique – After each emergency, the Manager/Supervisor will conduct a post-emergency review of employee activities to determine whether the emergency response procedures were effective. If deficiencies are found in the emergency response plan or in the actions taken by employees, or the designated operating personnel, MP Wilson will take appropriate corrective action. Actions taken by other response groups should be included in this critique. Critique results should be discussed with these groups so they will be aware of any deficiencies in their responses. The results of the emergency response critique will be documented in a report.

Restoration To Service – The Manager/Supervisor will prepare a written outline of the corrective measures to be taken and the steps necessary to return the system to service. The outline will be followed in the work done under the direction of the Manager/Supervisor.

12.13 Investigations of Failures

General – If the emergency is the result of a failure then a formal investigation must be conducted for the purpose of determining the cause of the failure and minimizing the possibility of a reoccurrence.

b. Response – Rapid response is necessary to preserve the integrity of specimens and gathering information.

Data Collection – When a detailed analysis is to be made, a person at the scene of the incident will be designated to coordinate the investigation. That person's responsibilities will include the following:

- Acting as a coordinator for all field investigative personnel.
- Maintaining a log of the personnel, equipment and witnesses.

- Recording in chronological order the events as they take place.
- Ensuring that photographs are taken of the incident and surrounding areas. These photographs may be of great value in the investigation.
- Ensuring the notification of all appropriate governmental authorities.
- Ensuring the preservation of evidence.

Investigation Team – When a detailed analysis is to be made, a fully qualified investigation team will be designated. The investigation team will be qualified either by training or experience in the proper procedures for investigation of an incident. The investigation will include the following:

- Determination of the probable cause of the incident.
- Evaluation of the initial response to the incident.
- The need for system improvements if necessary.
- The need for improvements in response, management and investigation of incidents.

Specimens – As required or appropriate the investigation team will specify how specimens are to be selected, collected, preserved, labeled and handled. The collection of metallurgical specimens should take precautions against changing the granular structure on the area of interest. When corrosion may be involved, the Corrosion Technician for the system will direct sampling of soil, ground water specimens or other items of interest.

The number of specimens collected at the failure site may vary depending on the type and number of tests anticipated. A series of independent or destructive tests may require multiple specimens. If there is a need to confirm the pipe materials specifications, then additional pipe specimens should be obtained near the failure, but in an area of the piping where the physical properties and characteristics are unaffected by the failure itself.

Testing & Analysis – Recognized testing laboratories and recognized standard destructive or nondestructive techniques will be utilized to examine the test specimens. The testing methods used should be suited to the particular material being tested, and be pertinent to the failure investigation.

Compilation & Review – Analysis and data on a failure will be compiled and reviewed. Corrective measures or the need for continuing surveillance will be determined and implemented. A summary report will be prepared.

12.14 Emergency Equipment & Tools

The Manager/Supervisor will compile a list of equipment and tools needed at the emergency response center and in gas system operation vehicles to effectively and promptly respond to an emergency situation. The minimum requirements may be as outlined below:

- Wrench to operate valves, flashlights, communication means, first aid kit and miscellaneous hand tools, portable gas detector, ropes, signs, etc., hand tools as required.

**TABLE 1 DRAFT
MP WILSON LLC
GAS COLLECTION SYSTEM DECOMMISSIONING COSTS**

Decommissioning Procedures	Quantity	Unit Rate	Cost	Comment
1. In advance of any decommissioning works, the site shall be inspected for adequate and safe operation conditions;	1	\$ 1,000.00	\$ 1,000.00	
Mobilisation	1	\$ 5,000.00	\$ 5,000.00	
2. Remove all gas well heads and flex-pipes;	31	\$ 50.00	\$ 1,550.00	
3. Cut all horizontal header pipe protrusions 12 inches below grade;	39	\$ 100.00	\$ 3,900.00	
4. Install concrete plugs in abandoned header pipe ends;	39	\$ 50.00	\$ 1,950.00	
5. Fill hole to grade;	39	\$ 25.00	\$ 975.00	
6. Remove above grade operators handles from buried valves;	8	\$ 100.00	\$ 800.00	
7. Cut all sampling port vertical pipes 12 inches below grade plug pipes and backfill;	15	\$ 100.00	\$ 1,500.00	
8. Remove the blower Flare skid and any other mechanical and/or electrical equipment.	1	\$ -	\$ -	Removed for Salvage value
9. Remove Flare station fencing;	1	\$ -	\$ -	Removed for Salvage value
10. Remove any condensate from the condensate sumps	1	\$ -	\$ -	Sumps will be drained as part of operation
11. Remove electro-mechanical equipment from condensate sumps, cut tops 12 inches below grade and back fill with suitable earth fill;	2	\$ 1,000.00	\$ 2,000.00	
12. Remove all Generator sets (if installed) and their mechanical and/or electrical equipment	0	\$ -	\$ -	Not installed at this stage
13. Remove Generator set foundations till 12 inches below grade, back fill with suitable earth fill and re-vegetate	0	\$ -	\$ -	Not installed at this stage
14. Re-vegetate all disturbed areas; and,	64	\$ 1.50	\$ 96.00	Based on \$ 0.05/sf cost
Monitoring of Decommissioning work	1	\$ 1,000.00	\$ 1,000.00	
15. Submit notification letter to the NCDENR Division of Waste Management when decommissioning is complete.	1	\$ 1,000.00	\$ 1,000.00	
Total			\$ 20,771.00	

14 SPILL PREVENTION AND RESPONSE PLAN

This LFGTE project claims exemption from the spill prevention, control, and countermeasures requirements of Chapter 40, Code of Federal Regulations, Section 112 (40 CFR 112) for the following reasons because there are no buried or above ground oil storage tanks associated with the LFGCCS. This project also claims exemption from the National Pollutant Discharge Elimination System (NPDES) requirements of the State of North Carolina because the project footprint is less than 1 acre. The flare installation has disturbed less than 1/4 acre of land off the landfill footprint.

The only liquids associated with the operation of the LFGCCS are small quantities of lubricants (grease) for the Flare electrical motor and the Flare Blower and condensate which gravity drains to the two pressure tested condensate sumps. Condensate from the sumps will be removed by vacuum truck and transported to the City of Wilson POTW.

The landfill gas blower/ Flare skid will generate small amounts of condensate which will gravity drain back to the Condensate sump.

Site-specific Best Management Practices (BMPs) will be utilized to reduce or prevent pollutants, resulting from site activities, from impacting storm water and authorized non-stormwater discharges; and identify the recommended countermeasures (cleanup materials) to be maintained on-site for use in addressing spills and other identified exposed materials.

An inspection and preventive maintenance program will be implemented for the LFGCCS facility. The program will include recommended manufacturer's maintenance schedules and practices, together with additional site-specific activities. At a minimum the following items will be complied with:

Spill Response Procedures

The spill response procedures are as follows:

1. **Notify the Emergency Response Coordinator.** The O&M person discovering a leak or spill will immediately notify the project's Project Emergency Response Coordinator (PERC). The PERC, or designee, will be on-call and available to on-site staff. The PERC will contact the Facility Manager, or designee, based on the severity of the leak or spill. Spill notification and project contact information is provided for in Section 12.6. Contact information will also be kept at the Wilson County Landfill Office.
2. **Stay clear of the spill.** Personnel who are not directly involved with the spill shall stay away from the leak or spill.
3. **Assess the spill.** The PERC, or designee, will first assess the nature and extent of the spill and the potential threat to human life or the environment, and make a determination regarding the steps required to safeguard personnel (e.g., evacuation, personal protective equipment, etc.).
 - a. As necessary, the PERC will evacuate personnel, notify local authorities, advise if area control or evacuation is recommended, activate emergency response personnel and equipment, and enlist outside emergency services as necessary.
 - b. The PERC will determine the exact source and the amount of the release, and determine the need for notification of authorities and regulatory agencies.
4. **Stop the spill.** After implementing the required safety-related measures, the PERC will authorize immediate action to prevent further releases to the extent possible by cutting off the flow at the source.
5. **Contain the spill.** Immediately after determining what safety precautions and containment equipment are appropriate, the PERC will authorize immediate containment procedures to stop or reduce migration of the spill. Efforts will include the management of containments that may have migrated beyond the LFGCCS boundary.
6. **Clean up spill.** To the extent practicable, spilled material will be retrieved and stored in leak-proof containers until the materials can be disposed of properly. A spill kit will be

available on-site. If a large spill occurs (more than what can be cleaned up with the typical spill kit materials), additional materials will be procured and utilized and/or a clean-up contractor will be contacted to provide additional equipment as deemed necessary.

7. **Dispose of contaminated material.** The PERC will direct the collection of the contaminated material (including both spilled material and cleanup media) and have the material disposed of in accordance with applicable regulations. The exact means of disposal will depend upon the nature and volume of the contaminated material.
8. **Record the spill event information.** The PERC will record leak and spill details as applicable. Completed spill event forms will be maintained by the System Operator Manager and stored in the on-site storage unit.
9. **Update the Spill Prevention and Response Plan.** The Facility Manager and other employees involved with the project will periodically review leak and spill records and will implement measures to prevent repeat occurrences and improve response measures.
10. **Replace used countermeasures.** Following a leak or spill cleanup, the Facility Manager, or designee, will assess the inventory of response equipment and restock the spill kit as necessary.
11. **Submit required reports.** The Facility Manager will prepare required follow-up written reports to the appropriate regulatory agencies, in accordance with applicable reporting requirements. Copies of site report will be maintained at the on-site storage unit.

Section 13: Waste Water Permit

This section presents a copy of the permit approved by the Wilson County Waste Water Treatment Plan to accept the condensate/leachate generated by the operation of the LFGCCS. The permit is attached to this section.

It should be noted that the attached documentation is a tentative approval. The final letter of acceptance from the WWTP will be forwarded to NCDENR once the required condensate sample has been analyzed and approved after system Start-Up.

A sample of condensate will be obtained from the Condensate Sumps as soon as possible after system startup and submitted for analysis. The results of the analyses will be submitted to the City of Wilson POTW within 7 days of sampling and submitted to the Department within 7 day after the approval letter is issued by City of Wilson. A copy of the approve letter and the sample results will be placed in the Operating Record at the landfill facility

CONSTRUCTION DRAWINGS

LANDFILL GAS COLLECTION AND CONTROL SYSTEM INSTALLATION - 2010

WILSON COUNTY LANDFILL

OWNER:
WILSON COUNTY, NORTH CAROLINA
 WILSON COUNTY LANDFILL
 4537 LANDFILL ROAD
 WILSON, NORTH CAROLINA 27893
 (252) 399-2823

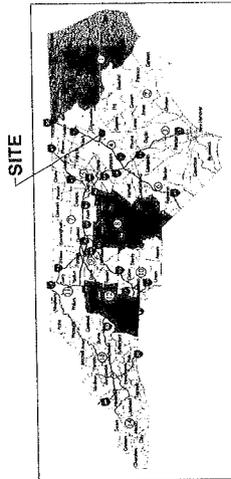
IN PARTNERSHIP WITH:
MP WILSON, LLC
 P.O. BOX 65837
 TUSCON, ARIZONA 85728
 (520) 615-8995

ENGINEER:
CARLSON ENVIRONMENTAL CONSULTANTS, PC
 305 SOUTH MAIN STREET
 MONROE, NORTH CAROLINA 28112
 (704) 283-9765

CEC JOB NO. J1-209205-00
 AUGUST 2010

AS-BUILTS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES
3	SITE DATA SHEET
4	DETAILS
5	DETAILS
6	DETAILS



AREA MAP
 SCALE AS SHOWN



Notes:
 1. All work shall be in accordance with the North Carolina Professional Code of Ethics.
 2. Construction performed by Contractor. Construction to start July 1, 2010 and August 2010.
 3. All work shall be in accordance with the North Carolina Professional Code of Ethics.
 4. All work shall be in accordance with the North Carolina Professional Code of Ethics.
 5. All work shall be in accordance with the North Carolina Professional Code of Ethics.
 6. All work shall be in accordance with the North Carolina Professional Code of Ethics.
 7. All work shall be in accordance with the North Carolina Professional Code of Ethics.
 8. All work shall be in accordance with the North Carolina Professional Code of Ethics.
 9. All work shall be in accordance with the North Carolina Professional Code of Ethics.
 10. All work shall be in accordance with the North Carolina Professional Code of Ethics.

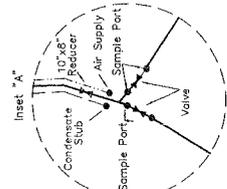
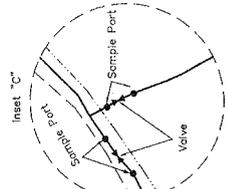
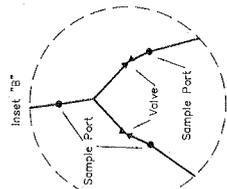
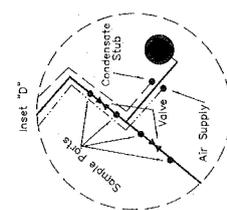
DRAWING TITLE: TITLE SHEET	
PROJECT: LFG COLLECTION SYSTEM DESIGN WILSON COUNTY LANDFILL WILSON, NORTH CAROLINA	
CLIENT: MP WILSON, LLC	
CARLSON ENVIRONMENTAL CONSULTANTS, PC	
305 SOUTH MAIN STREET MONROE, NORTH CAROLINA 28112 CEC PROJECT NO. J1-209205-00 DWG. WILSON/LS/TITLE REV. 0	
SCALE NO SCALE	SHEET 1 OF 6
DATE AUGUST 2010	

(704) 283-9765
 Fax: (704) 283-9765



LEGEND

(Solid line)	EXISTING CONTOUR
(Dashed line)	LFG HEADER/LATERAL
(Dotted line)	CONDENSATE FORCEMAIN
(Dash-dot line)	AIR SUPPLY
(Double line)	ROAD CROSSING
(Circle with dot)	STUBS OF CONDENSATE LINE
(Circle with cross)	STUBS OF AIR LINE
(Circle with center dot)	NEW GAS WELL



AS-BUILT SHEET 2 OF 6

Witnessed and sealed by me, the Surveyor, on this 27th day of August, 2010.

Professional Seal of Andy D. Ward, Professional Land Surveyor, State of North Carolina, License No. 14824.

THE PURPOSE OF THIS MAP IS FOR LOCATION ONLY AND DOES NOT REPRESENT A BOUNDARY SURVEY BY ME.

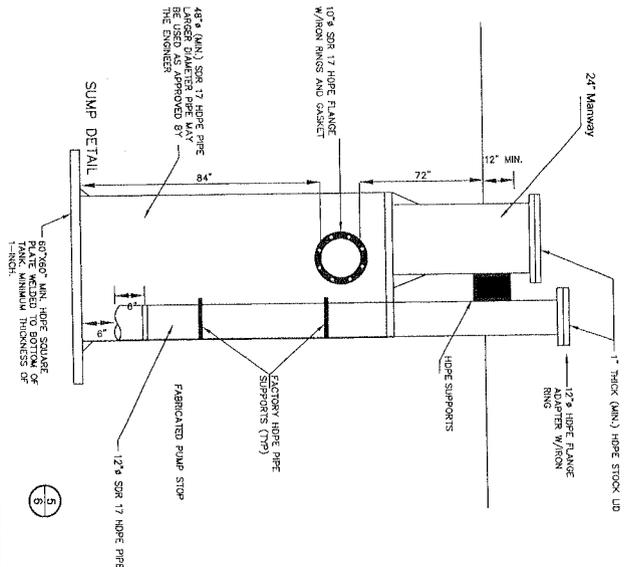
Asbuilt Survey
 For
WILSON COUNTY, NORTH CAROLINA
WILSON COUNTY LANDFILL
4537 LANDFILL ROAD
WILSON, NORTH CAROLINA 27893

Andy D. Ward
 Professional Land Surveyor
 5555 High Road Trail
 Mooresville, NC 28055
 704-335-4420

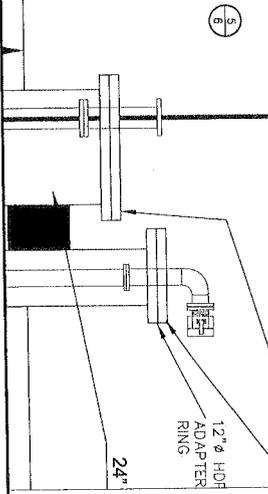
SCALE
 1" = 200'

on Representative

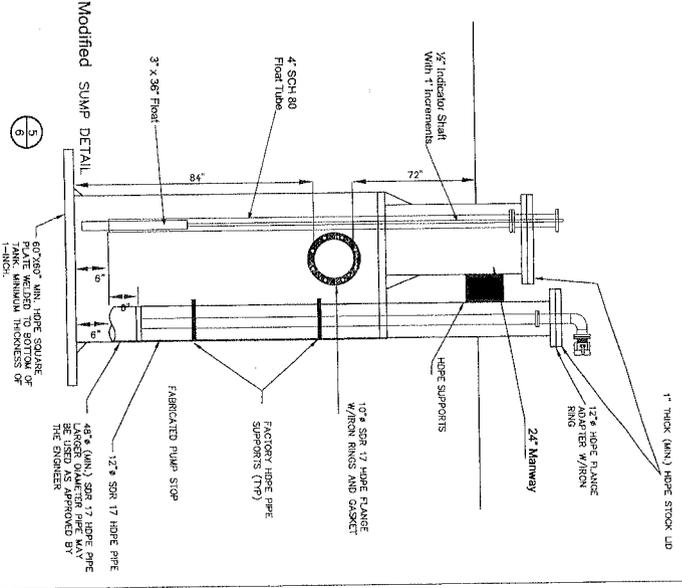
CS-2 Details



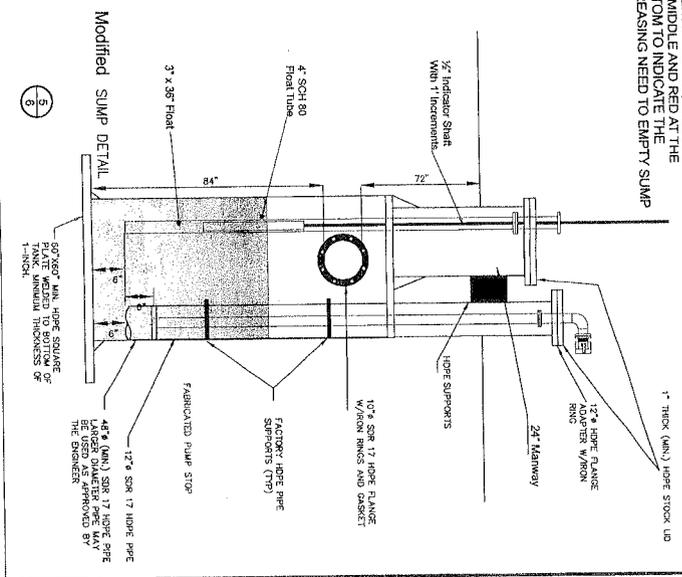
INDICATOR SHAFT IS COLORED GREEN AT THE TOP, YELLOW IN THE MIDDLE AND RED AT THE BOTTOM TO INDICATE THE INCREASING NEED TO EMPTY SUMP



Level Indicator
Vac-truck Connection
For CS-1, CS-2,



INDICATOR SHAFT IS COLORED GREEN AT THE TOP, YELLOW IN THE MIDDLE AND RED AT THE BOTTOM TO INDICATE THE INCREASING NEED TO EMPTY SUMP



Level Indicator
For CS-1, CS-2,
Approaching Danger Level

AS-BUILTS

DETAILS

DRAWING TITLE:		DETAILS	
PROJECT:		LANDFILL GAS COLLECTION AND CONTROL SYSTEM - 2010	
PERMIT DRAWINGS			
SITE:		MIP WILSON, LLC WILSON COUNTY LANDFILL WILSON, NORTH CAROLINA	
CONSULTANTS, PC		CARLSON ENVIRONMENTAL CONSULTANTS, PC	
300 SOUTH MAIN STREET MONROE, NORTH CAROLINA 28112		(704) 288-8785 FAX (704) 288-8785	
CSC PROJECT NO. J1-28909-00		DWG. WILSON/DETAILS REV. 0	
SCALE: NO SCALE		SHEET 5 OF 6	
DATE: AUGUST 2010			



- Notes:
1. As-built Drawings are based on Construction Drawings dated 4/23/2010 by Carter Environmental Consulting, Inc.
 2. Construction performed by: Charles Construction, Inc. under 10/10/10 and August 2010 to 10/10/10.
 3. As-built Drawings are provided by: Scott D. Ward, P.E. dated August 11, 2010.
 4. As-built Construction Drawings provided by: Keller Engineering & Consulting, PLLC dated 8/11/10.
 5. CSC did not visit with the as-built information shown on these drawings and noted an information provided by ATO and Keller Engineering & Consulting.

CONSTRUCTION DRAWINGS

LANDFILL GAS COLLECTION AND CONTROL SYSTEM INSTALLATION - 2010

WILSON COUNTY LANDFILL

OWNER:

WILSON COUNTY, NORTH CAROLINA
 WILSON COUNTY LANDFILL
 4537 LANDFILL ROAD
 WILSON, NORTH CAROLINA 27893
 (252) 399-2823

IN PARTNERSHIP WITH:

MP WILSON, LLC
 P.O. BOX 65837
 TUSCON, ARIZONA 85728
 (520) 615-8995

ENGINEER:

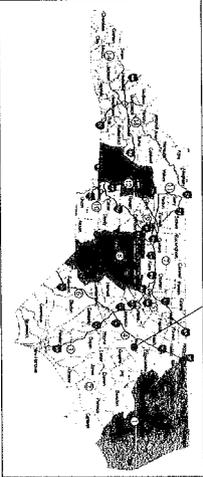
CARLSON ENVIRONMENTAL CONSULTANTS, PC
 305 SOUTH MAIN STREET
 MONROE, NORTH CAROLINA 28112
 (704) 283-9765

CEC JOB NO. J1-209205-00

AUGUST 2010

AS-BUILTS

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SITE PLAN
3	SITE PLAN SHEET
4	DETAILS
5	DETAILS
6	DETAILS



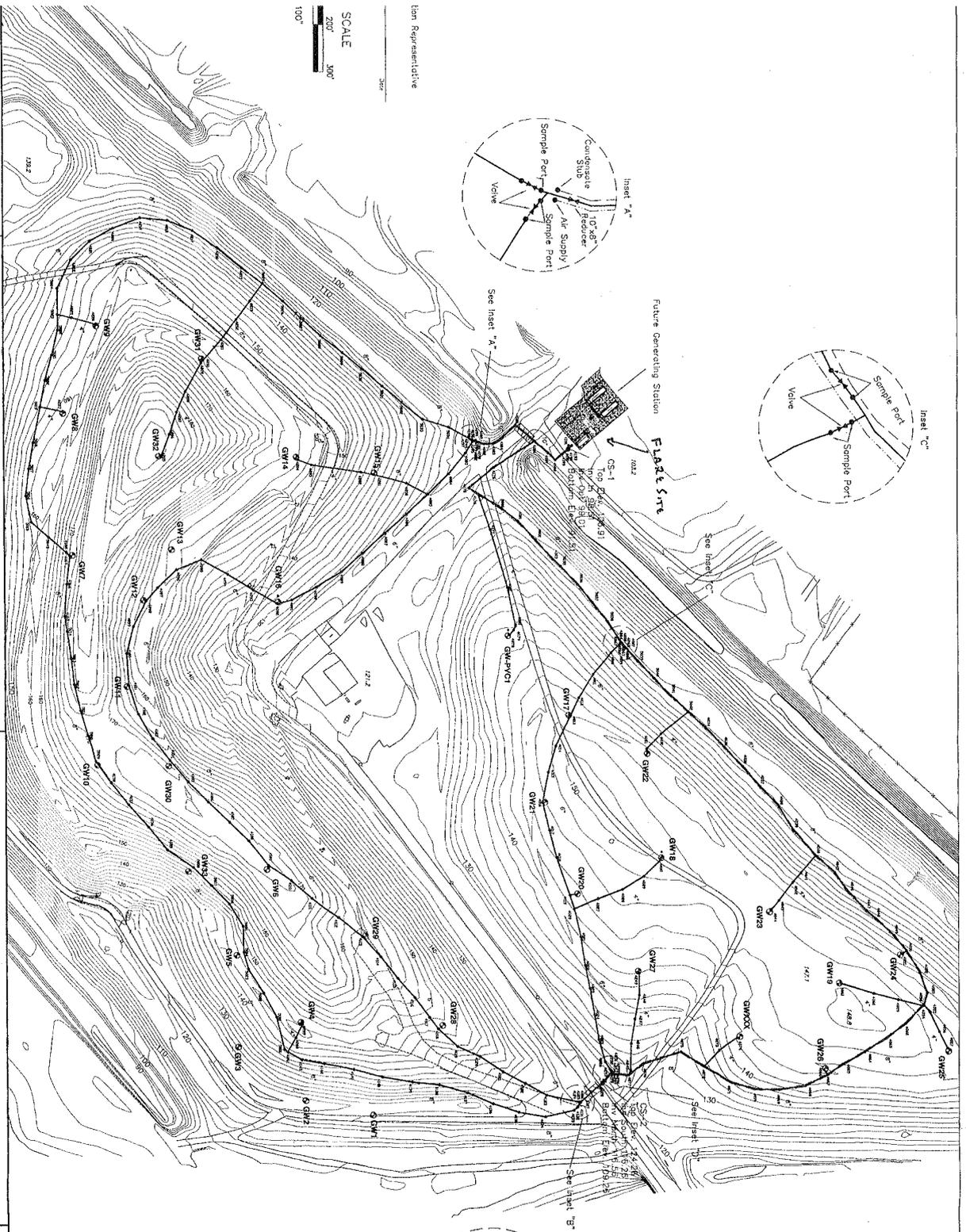
AREA MAP
 SCALE AS SHOWN

NOTES:

1. As-built Drawings are based on Construction Drawings dated April 2010 by Carlson Environmental Consultants, PC.
2. Construction performed by Chandler Construction in June, July, and August 2010 with construction details assistance provided by Applied Technology and Construction (ATC).
3. As-built Drawings are based on field notes and photographs provided by ATC and Carlson Environmental Consultants, PC.
4. As-built Certificate Document provided by Build! Engineering & Consulting, PLLC dated August 23, 2010.
5. Verify the as-built information shown on these drawings and as-built information provided by ATC and Build! Engineering & Consulting.



DRAWING TITLE:		TITLE SHEET	
PROJECT:		LFG COLLECTION SYSTEM DESIGN WILSON COUNTY LANDFILL WILSON, NORTH CAROLINA	
CLIENT:		MP WILSON, LLC	
CARLSON ENVIRONMENTAL CONSULTANTS, PC			
305 SOUTH MAIN STREET MONROE, NORTH CAROLINA 28112		(704) 283-9765 FAX (704) 283-9755	
CEC PROJECT NO.	J1-209205-00	DWG.	WILSON.CE.C112
SCALE	NO SCALE	REV.	0
DATE	AUGUST 2010	SHEET	1 OF 6

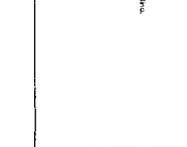


Randy D. Word
 Professional Land Surveyor
 305 W. 1st Street
 Wilson, NC 27893
 910-297-4366

For
Asbuilt Survey
WILSON COUNTY, NORTH CAROLINA
WILSON COUNTY LANDFILL
 4537 LANDFILL ROAD
 WILSON, NORTH CAROLINA 27893

THE PURPOSE OF THIS USE IS FOR LOCATION ONLY AND
 DOES NOT REPRESENT A FORWARD CONTRACT BY ME.

I, Randy D. Word, a Professional Land Surveyor, certify that the
 Ratio of Precision is 1" = 10000' and that this map meets the
 minimum standards for accuracy for land surveying in North Carolina.
 Witness my hand and seal this 15th day of April, 2010.
 Randy D. Word, PLS
 305 W. 1st Street
 Wilson, NC 27893



LEGEND

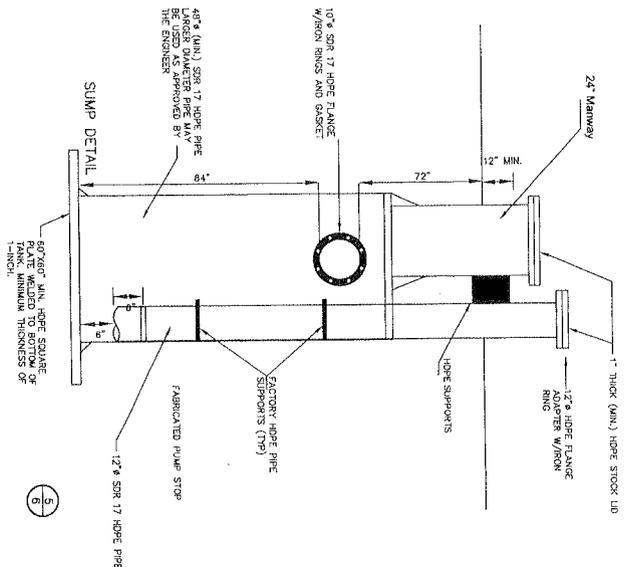
- EXISTING CONTOUR
- U/G HEADEN/LATERAL
- CONDENSATE FOREMAIN
- AIR SUPPLY
- ROAD CROSSINGS
- STUBS OF CONDENSATE LINE
- STUBS OF AIR LINE
- NEW GAS WELL

AS-BUILT SHEET 2 OF 6

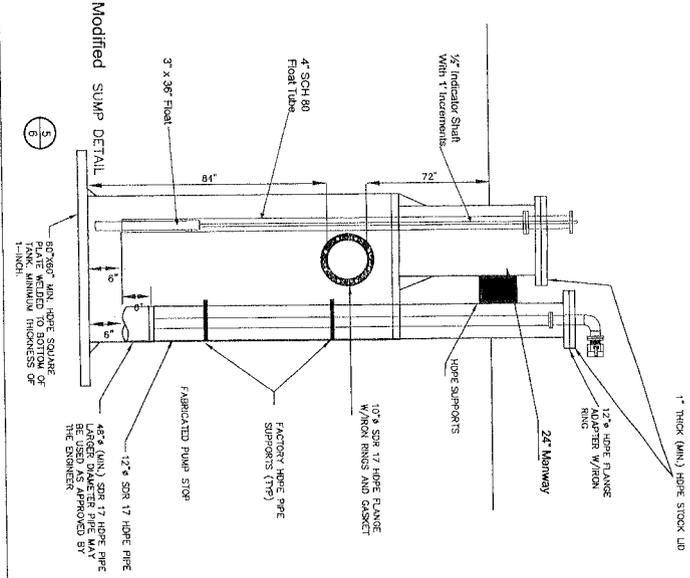
SCALE
 1" = 100'
 200' 300' 400'

Ian Representative

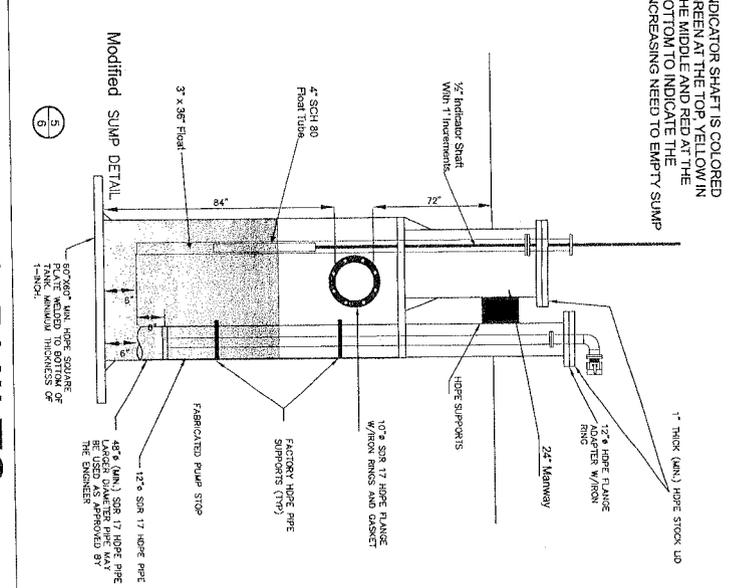
CS-2 Details



Level Indicator Vac-truck Connection For CS-1, CS-2,



Level Indicator For CS-1, CS-2, Approaching Danger Level



INDICATOR SHAFT IS COLORED GREEN AT THE TOP, YELLOW IN THE MIDDLE AND RED AT THE BOTTOM TO INDICATE THE INCREASING NEED TO EMPTY SUMP

INDICATOR SHAFT IS COLORED GREEN AT THE TOP, YELLOW IN THE MIDDLE AND RED AT THE BOTTOM TO INDICATE THE INCREASING NEED TO EMPTY SUMP

AS-BUILTS

DETAILS

PROJECT: LANDFILL GAS COLLECTION AND CONTROL SYSTEM - 2010
PERMIT DRAWINGS

SITE: MIP WILSON, LLC
WILSON COUNTY LANDFILL
WILSON, NORTH CAROLINA

CARLSON ENVIRONMENTAL
CONSULTANTS, PC

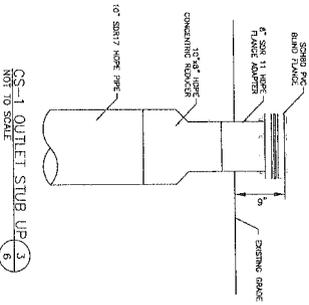
NO. 300717 MAN STREET NO. 300717 NORTH CAROLINA 28112	DWG. WILSON/DETAILS	REV. 0
CDC PROJECT NO. 11-28965-00		
SCALE NO SCALE		
DATE AUGUST 2010	SHEET 5 OF 6	



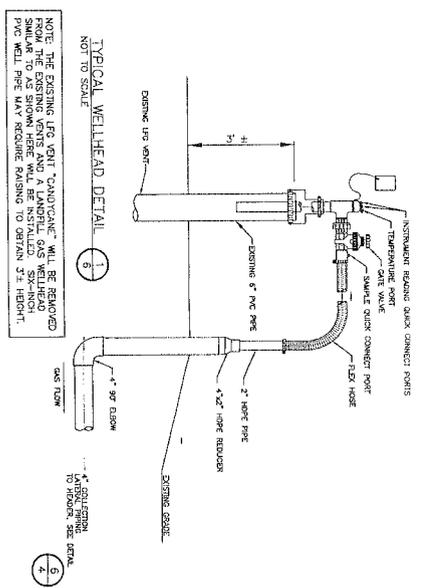
Notes:
1. As-built drawings are based on Construction Drawings dated April 2010 by Carlson
2. Construction performed by Carlson Construction in June, July, and August 2010 with
3. Construction quality assurance services provided by Applied Engineering and Construction, LLC dated
August 21, 2010.
4. As-built Certificate Documents provided by Applied Engineering and Construction, LLC dated
August 21, 2010.
5. All work shall be subject to the rules, regulations, and codes of the jurisdiction and shall be
individually provided by A/E/C and Building Engineering & Construction.

NOTES:

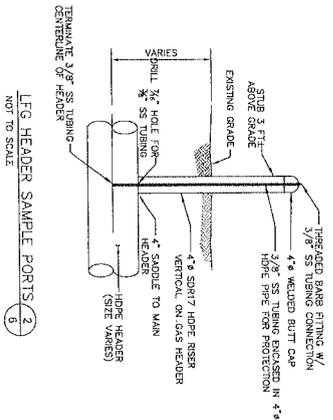
1. UNLESS OTHERWISE AGREED TO BY OWNER, CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS TO PERFORM THE WORK DESCRIBED HEREIN.
2. PRIOR TO DRILLING, CONTRACTOR TO VERIFY WELL LOCATIONS, LANDFILL SURFACE GRADES, AND TOTAL WELL DEPTHS WITH OWNER. ALL WELL DRILLING MUST REMAIN A MINIMUM OF 15 FEET ABOVE THE LANDFILL OPEN SYSTEM.
3. CONTRACTOR SHALL HAIL AND DISPOSE OF ALL WASTE MATERIALS TO AN APPROVED WASTE DISPOSAL LOCATION INCLUDING MONITORING SODS WASTE PLACED DURING THE INSTALLATION OF THE VERTICAL WELLS AND UFG HEADERS.
4. ALL BOLTS, NUTS AND WASHERS SHALL BE 316 STAINLESS STEEL. IF A 316 STAINLESS STEEL WASHER IS USED, THE FLANGE AND/OR VALVE MUST BE WELDED WITH A 316 PLASTIC SHEETING.
5. UNLESS OTHERWISE DIRECTED BY OWNER, CONTRACTOR SHALL PROVIDE TO OWNER ALL NECESSARY MATERIALS INCLUDING: NEW VERTICAL WELLS, NEW UFG HEADERS, NEW UFG PIPING, NEW VALVES, NEW SHIMS, AND NEW CONDENSATE AND PNEUMATIC PIPING. STRIVE TO INCLUDE WORKING, EXISTING, AND EXISTING PIPING AND PNEUMATIC PIPING. ELEVATION OF ALL BURNED HEADERS AND LATERAL UFG PIPING AND CONDENSATE AND PNEUMATIC PIPING AT MINIMUM DISTANCES BETWEEN POINTS OF 50 LINEAR FEET AND AT ALL TEES, FLANGES, VALVES, AND RISERS.
6. CONTRACTOR SHALL USE FACTORY WELDED OR FACTORY FABRICATED TEE AND REDUCERS FOR CONNECTIONS. FIELD MADE BRANCHES SHALL BE MADE BY WELDING BRANCHES TO MAIN LINES. ALL WELDS SHALL BE MADE BY BRANCH SALES CONNECTIONS ARE APPROVED BY OWNER, CONTRACTOR PERSONNEL, PERFORMING BRANCH SALES CONNECTIONS MUST BE A CERTIFIED WELD FUSION TECHNICIAN, AS RATED BY MCGRAW HILL, FOR ALL WELDS. ALL WELDS SHALL BE MADE BY WELDING TO OWNERS' SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO BEGINNING WORK.
7. CONTRACTOR TO USE FACTORY FABRICATED PIPE FOR VERTICAL WELLS, UNLESS OTHERWISE APPROVED BY OWNER.
8. CONTRACTOR RESPONSIBLE FOR DAMAGES INCURRED TO LANDFILL COVER, LANDFILL COVER SYSTEM TO ORIGINAL CONDITION AND/OR TO THE SATISFACTION OF OWNER, CONTRACTOR TO SEED, FERTILIZE, AND MOW ALL DISTURBED AREAS TO THE SATISFACTION OF OWNER.
9. OWNER MAY CONTRACT WITH A THIRD PARTY FOR CONSTRUCTION QUALITY ASSURANCE (CQA) SERVICES. CONTRACTOR SHALL ALLOW (AND PROVIDE ADVANCE NOTIFICATION) FOR CQA PERSONNEL TO OBSERVE (AND TEST IF NECESSARY) ALL WORK FROM TO BURIAL.
10. CONTRACTOR TO AIR PRESSURE TEST ALL SOLID-WALL UFG HEADERS AND LATERAL PIPING PRIOR TO BURIAL. LENGTHS OF PRESSURE TESTING NOT TO EXCEED 500 LINEAR FEET WITHOUT OWNERS' APPROVAL. CONTRACTOR SHALL CONDUCT PRESSURE TESTING ON UFG HEADERS/LATERAL PIPING TO BE INSTALLED AT 5 PSIG, ON CONDENSATE FORCEMAIN PIPING TO BE 50 PSIG, AND ON AIR SUPPLY PIPING TO BE 100 PSIG. CONTRACTOR SHALL NOT EXCEED ONE PERCENT OVER A ONE HOUR PERIOD. CONTRACTOR SHALL PROVIDE A PRESSURE TEST REPORT TO OWNER. CONTRACTOR TO SUPPLY AIR COMPRESSOR AND TO CONDUCTIVE PRESSURE TEST WITH COA PERSONNEL OF OWNER. ANY AIR TESTS TO BE CONDUCTED BY CONTRACTOR AND A REPORT OF THE PRESSURE TESTING MUST BE SUBMITTED TO CONTRACTOR AND OWNER.
11. ALL UFG HEADERS AND LATERAL PIPING TO BE INSTALLED AT A MINIMUM OF 15 FEET ABOVE THE LANDFILL SURFACE GRADE. CONTRACTOR SHALL BE RESPONSIBLE FROM TO DRAW CONDENSATE LINES TO CONDENSATE SINKS LOCATED THROUGHOUT THE UFG SYSTEM, UFG HEADERS AND LATERAL PIPING THROUGH ROAD CROSSINGS TO BE INSTALLED AT A MINIMUM SLOPE OF 3 PERCENT. PIPING WAS INSTALLED AND/OR CONDUCTED AT THE ASSIGNED INWARDER WHEN THE ABOVE SPECIFICATIONS ARE NOT BE ACHIEVED.
12. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE HEALTH AND SAFETY OF HIS PERSONNEL AND THE ENVIRONMENT. CONTRACTOR TO PROVIDE SERVICES IN ACCORDANCE WITH APPLICABLE OSHA, FEDERAL, STATE, AND LOCAL HEALTH AND SAFETY REGULATIONS. CONTRACTOR IS ASSUMED TO BE EXPERIENCED IN WORKING WITH LANDFILL GAS COLLECTION SYSTEMS. CONTRACTOR SHALL NOTIFY OWNER OF ANY UNSAFE CONDITIONS DURING CONSTRUCTION. CONTRACTOR TO NOTIFY OWNER OF ANY UNSAFE CONDITIONS DURING CONSTRUCTION. CONTRACTOR IS THE CONTRACTOR TO HAVE A PORTABLE HYDROGEN SULFIDE METER PRESENT DURING ALL WELL DRILLING AND IN-WELL WORK.
13. CONTRACTOR TO REGRATE ALL LANDFILL BERMS TO PRE-CONSTRUCTION OR BETTER CONDITIONS. BASED ON SOLID WASTE PLANS, ALL BERMS ARE "TRACK-ON" SOIL BERMS WITH EROSION CONTROL BLANKETS. CONTRACTOR TO BE AWARE THAT WILSON COUNTY WILL HAVE THE FINAL APPROVAL FOR ALL REGRADING AND SOIL BERMS, AND SOIL AND SOIL AND SOIL AND SOIL AND SOIL AND SOIL AS PART OF THE UFG PROJECT.



CS-1 OUTLET STUB UP (1)
NOT TO SCALE



TYPICAL WELLHEAD DETAIL (3)
NOT TO SCALE



LFG HEADER SAMPLE PORTS (2)
NOT TO SCALE

AS-BUILTS

DETAILS

DRAWING TITLE: PROJECT: LANDFILL GAS COLLECTION AND CONTROL SYSTEM - 2010
SITE: MP WILSON, LLC
 WILSON COUNTY LANDFILL
 WILSON, NORTH CAROLINA

CARLSON ENVIRONMENTAL CONSULTANTS, PC

DATE	AUGUST 2010	SHEET	6 OF 6
PROJECT MAIN ENGINEER	MONROE, NORTH CAROLINA 28112	DWG.	WILSON/DETAILS
SCALE	NO SCALE	REV.	0
		FAX	(704) 288-9795
		REV.	0
		FAX	(704) 288-9795



Name: _____
 1. A valid Certificate is based on Construction Drawings dated August 2010 by Carlson Environmental Consultants, PC.
 2. Construction performed by Carlson Environmental Consultants, PC, under License No. 14101.
 3. Construction performed by Carlson Environmental Consultants, PC, under License No. 14101.
 4. A valid Certificate is based on Construction Drawings dated August 2010 by Carlson Environmental Consultants, PC.
 5. All rights reserved. Information shown on these drawings and related information provided by A/E/C and built Engineering & Consulting.