



**CARLSON ENVIRONMENTAL CONSULTANTS, PC**

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LANDFILL GAS, AIR PERMITTING, AND REGULATORY COMPLIANCE SERVICES

**ADDENDUM NO. 2**

**BIDDING DOCUMENTS  
IREDELL COUNTY SOLID WASTE FACILITY LANDFILL  
FY22 LANDFILL GAS COLLECTION SYSTEM EXPANSION  
PROJECT STATESVILLE, NC**

**TO:** All Plan Holders of Record

**FROM:** Brock D. McNabb, P.E.  
Carlson Environmental Consultants, PC

**DATE:** November 19, 2021

This addendum becomes a part of the original Bidding Documents. The following items are issued to add, modify, and clarify the Bidding Documents. These items shall have the full force and effect as the Bidding Documents, and the cost involved shall be included in the bid prices. Bidder shall acknowledge receipt of this addendum in the space provided on the bid form. Failure to do so does not remove the Bidder's responsibility for complying with the changes made in this addendum.

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**CLARIFICATIONS**

- C1:** The bid due date has been moved to December 3, 2021 at 2:00pm to allow for more time over the Thanksgiving holiday for bidders to finalize their bids.
- C2:** The sign-in sheet and notes from the mandatory pre-bid meeting are attached and will be available for download on the County website soon.
- C3:** The condensate forcemain connection details for line items to MH#2 (#42) and LCR3 (#41) will be provided in a subsequent Addendum with revised Drawings.

**QUESTIONS**

- Q1:** In regards to 00800-5 Section 6.13- the contractor is responsible for reimbursement of all CQA overtime costs over 40 hours in a 6 day work week (M-Sat)? Including any per-diems over and beyond a 5 day work week?
- A:** "Regular working hours" for CQA and Engineering should be defined as Monday through Saturday. Any work on Sunday, holidays or past the 40 hours per week will require Contractor to compensate Owner for this work.

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**Q2:** Will the onsite soils be acceptable for the pipe bedding and backfill?

**A:** Yes. As long as the loads of onsite soil are free of debris less than 1-inch diameter, it will be suitable for pipe bedding. On-site soils are available from the borrow pit adjacent to Phase 3/4 work area.

**Q3:** What version is the wellhead preferred by ICSW?

**A:** The wellhead preferred is the 2-inch WM-style wellhead offered by Lee Supply and potentially others.

**Q4:** Is bucket compaction acceptable.

**A:** Yes, bucket compaction is acceptable and will be up to the discretion of Owner or Engineer/CQA. The trenches must be compacted in lifts and top final cover be uniform with grade and tracked over with no depressions along the trenched areas.

**Q5:** Abandonment quantities appear to be low. Are they correct?

**A:** The unit prices are estimates based on internal take-offs. Typically, projects will go short on some items and long on the others but tend to work out in the end. The Owner has the right to reduce or increase the work or not award the bid at all. Therefore, the estimated quantities on the unit price sheet are solely for Cost purposes of each feature.

**Q6:** Can you confirm the working hours discussed in the Pre-Bid Meeting?

**A:** Project working hours are 7:30 am to 6:00 pm, Monday to Sunday. ICSW accepts waste Monday through Friday from 7:30 am to 4:30 pm and Saturday from 8:00 am to 12:00 pm. Contractor must move waste to the active face during these times and be complete 1/2 hour prior to closing. No waste excavation or movement will be allowed after hours. All waste that is hauled to the working face must be tracked by load count, indicating which Phase it was removed from and that it was disposed of in Phase 6. All waste must be covered by the end of the operating day. No extended active face hours will be available during this project. Contractor **may** work on-site outside of these hours and on Sunday with approval of the ICSW.

**Q7:** Are all gas wells PVC or CPVC?

**A:** All gas wells should be constructed of 8" SCH80 PVC solid and perforated piping.

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**Q8:** On well abandonment item, please clarify how many existing 6" well casings vs. 4" well casings.

**A:** All existing wells to be abandoned are 6-inch casings.

**Q9:** Are Pump One or QED Pneumatic BL Pumps an acceptable alternative to Veridian?

**A:** The owner prefers to use the Veridian bottom loading pneumatic pumps so the parts on hand for repairs and maintenance are the same as existing.

**Q10:** In regards to the remote wells, is it safe to assume that the contractor can utilize the existing header connections for Wells W128 and W130?

**A:** Yes, the existing vacuum riser for these remote wells can be utilized.

**Q11:** Is the contractor required to have a water truck on-site for dust control?

**A:** The site typically has dust suppression per watering the roads, however the Contractor may be required to provide their own dust suppression should the traffic become excessive on dry days. Please provide any T&M costs in your submittal as typical for equipment/man power if required above and beyond the work scope.

**Q12:** Will the contractor be required to import the one foot of intermediate/vegetative cover layer (on our pipeline trenches) or is the Owner supplied backfill suitable material?

**A:** No, the Contractor should scratch the existing cover soils and lay them aside for use over the top of the trenches and must be free of flagging materials. Additional soils may be required if excessive flagging is an issue with this separation of cover soils.

**Q13:** Abandon LFG Lateral Bid Item quantity appears to be light. Assume contractor will be paid per cap installed?

**A:** The abandonment line items for the wells (#12) should include the capping of the existing LFG riser. The other lateral abandonments (#30) will be paid per excavation and cap installed.

**Q14:** Are electrofusion collars acceptable for tie-ins to existing pipes > 6" ?

**A:** Electrofusion collars will only be permitted on a case-by-case basis for pipes less than 12-inch diameter. It will be expected and preferred to make butt-fusion connections to all locations but may not be feasible in certain scenarios.

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**Q15:** What is the anticipated depth of the header that needs to be re-graded? Will this header need to be bedded with sand?

**A:** The existing header is assumed to be 3-5 feet deep. On-site soils free of debris and less than 1-inch diameter will be acceptable.

**Q16:** Detail 13-6 says Carbon Steel or Ductile Iron BUR, please confirm Ductile Iron is acceptable.

**A:** Ductile Iron BURs are acceptable.

**Q17:** Is there access to water onsite?

**A:** Yes.

**Q18:** Do you anticipate any concrete or asphalt road crossings or repairs?

**A:** No.

**Q19:** Bid Item 35 - Cover Replacement includes seed and mulch only, no matting. Correct?

**A:** Matting may be required in lieu of blown straw mulch on side slopes if heavy rain weather during the project is causing erosion and wash-outs. This additional cost, if any, will be coordinated with the awarded Contractor on a case-by-case basis.

**Q20:** Does this project have any prevailing or union wage requirements?

**A:** None.

**Q21:** Is this project Sales Tax Exempt?

**A:** No.

**Q22:** Can the contract time for substantial completion be extended to 150 days?

**A:** **The substantial completion for this project is set due to the need for additional LFG units for contractual obligations and future regulations. An extension is not being granted at this time but will be discussed with the Owner and Engineer and further information will be released if necessary.**



## CARLSON ENVIRONMENTAL CONSULTANTS, PC

LANDFILL GAS, AIR PERMITTING, AND REGULATORY COMPLIANCE SERVICES

### MANDATORY PREBID MEETING AGENDA & MINUTES

#### ICSW LFG COLLECTION SYSTEM EXPANSION PROJECT STATESVILLE, NORTH CAROLINA

Iredell County Solid Waste (ICSW) Facility – Baler Building  
10:00AM November 15, 2021

Meeting began at approximately 10:15 and was conducted by Raymond Hoffman, P.E. with Carlson Environmental. Sign in sheet for those in attendance is attached.

#### INTRODUCTION

- Owner is the Iredell County Solid Waste Department.
- David Sifford, CLGPO is the Purchasing & Contracts Manager for the project.
- Teddy Boller is ICSW Director and represents owner for this project.
- Jeff Webster is the ICSWA Landfill Gas Technician.
- DTE is the LFGTE plant operator and Ray Handy is the on-site contact. It will be important to notify DTE at least 48-hours in advance of any construction activity that may potentially cause harm to the energy facility or cause a loss of gas to the plant.
- Engineer is Carlson Environmental Consultants (CEC), PC and all questions and correspondence to be directed to Brock McNabb, P.E.
- Ray Hoffman, P.E. and Brock McNabb, P.E. will be the CEC Project Managers.
- Contact information is in the project manual.
- Sign up sheet is passed around – attendees must sign in for their company to be eligible to bid on the project.
- Plans and specifications are available from CEC in hard copy or in electronic format from the Iredell County website.

#### BIDS

David Sifford, Iredell County Purchasing

- ICSW will accept bids for the LFG Collection system at 200 South Center St./PO Box 788 in Statesville, NC 28687 by **December 3, 2021 until 2:00 pm** local prevailing time (per Addendum #2). Bids will be submitted in a sealed envelope. The envelope shall be clearly marked on the exterior: “Bid for Iredell County

Solid Waste Facility, Landfill Gas Collection System Expansion Proposal (**BID No. 22-750-FC-01**)”.

- Please make sure all bids will be delivered to the IC Purchasing office prior to 2:00 pm. No late bids will be accepted.
- All bids will be opened at 2:00 pm and read aloud.
- Please clearly identify any alternates or modifications to the specified equipment in your bid.

## **PROJECT INFORMATION**

- Project site is the ICSW Landfill – **Phases 1/2, 3/4 and 5** areas. A set of design plans were reviewed and the project covered in general. After the meeting, Mr. Hoffman conducted a site tour with many of the attendees, stopping first on top of the Phase 1 and 2 hill, pointing out the location of Phases 3 and 4 and then proceeded around Phase 5 to the proposed stockpile soil area. Questions were asked regarding the connection to Manhole 2, whether this was a concrete or HDPE manhole. Soils were observed coming from the stockpile area and visible appeared to be satisfactory for trench backfill material for this project.
- Project description – Contractor to furnish and install complete an expansion and abandonment of the existing LFG collection system in the Phases 1/2 and 3/4 at the ICSW Landfill. Phase 5 header work will consist of regrading existing installed header that has assumed low spots observed from the as-built survey and significant surging of system pressures.
- The project includes the installation of seven (7) redrill wells, sixteen (16) new gas extraction wells with approximately 1,300 vertical feet of drilling, twenty-four (24) abandonments of existing wells and approximately 8,000 linear feet of below grade LFG, air and forcemain piping, isolation valve stations and related work. Abandonment of sections of the existing LFG should only occur when it is determined that gas flows in the newly installed sections will carry gas to the plant. Any pipe abandonment work should be coordinated with the CQA technician and with the DTE plant operator.
- Project will be completed in one phase and the project has a 60-day timeline for Substantial Completion and 90-day timeline for Final Completion. Timely completion is required to meet the new NSPS XXX deadlines and a \$500/day liquidated damage will be applied if the project goes beyond 90-days.

- Bidders are advised that this is an operating landfill, and there will be Solid Waste personnel and other contractors working on-site. The contractor must use care during construction to minimize impact of construction on existing operations.
- Odors may be a concern during the drilling and excavation activities for the ICSW and at least 72 hours notice will be required prior to drilling to allow ICSW to notify others, as needed.
- Bidders are also advised that there is an existing LFGTE project with DTE onsite. Contractor to give a minimum of 48 hours, notice to DTE prior to any tie-ins or shut-downs of LFG system. Any planned shut-downs of the entire system should be limited to try and keep the DTE plant operational throughout the project.
- The Contractor will be held responsible for coordinating with ICSW, CEC, DTE, and other contractors/personnel on site.
- As-built drawings for the existing LFG collection system are available for review.
- Soils are available at the ICSW stockpile area by Phase 5, for backfill and bedding material. ICSW will load the contractor's trucks if their equipment and operator are available. Contractor to source from suitable off-site sources pending approval of the Engineer and evidence of proper pit permits. Specifications for the material are in the Bid Manual.
- Existing soil cover is estimated at 12"-18" of soil in the interim capped areas. All disturbed areas in this project will be in areas with interim soil. This site has no existing final cover or geomembrane cover system. Care should be taken whenever trench work has to occur for pipes entering or exiting the lined landfill areas, to protect the base liner system and any associated utilities underground.
- Non-potable water may be available on-site by request at the fire hydrant located next to the baler building. County will use their water truck to keep dust from occurring on the roads.
- All new vertical gas wells are to be 8" SCH 80 PVC.
- Please note the insurance and bonding requirements in the Project Manual.
- Project working hours are 7:30 am to 6:00 pm, Monday to Sunday. ICSW accepts waste Monday through Friday from 7:30 am to 4:30 pm and Saturday from 8:00 am to 12:00 pm. Contractor must move waste to the active face during these times and be complete 1/2 hour prior to closing.

No waste excavation or movement will be allowed after hours. All waste that is hauled to the working face must be tracked by load count, indicating which Phase it was removed from and that it was disposed of in Phase 6. All waste must be covered by the end of the operating day. No extended active face hours will be available during this project. Contractor **may** work on-site outside of these hours and on Sunday with approval of the ICSW.

- All bidders must be authorized to work in North Carolina and Iredell County. Please also note that North Carolina has a required out-of-state 4% tax, which may require bonding.
- Stone must be non-calcareous and washed granite or river rock. Please include in your bid the quarry you plan to use. Martin Marietta quarry was mentioned as a possible source for materials that have been used on site previously.
- The Contractor is not required to maintain an office trailer onsite for this project. However, Contractor is required to maintain restroom facilities for its workers. No restrooms will be available from the OWNER.
- The ICSW does have a previous seeding and vegetation contractor they have used in past projects. Contact is on the sign-in sheet. There are several options for contractors in the region that provide this service.
- **Please note that the ICSW has the right to hold bids for 90 days prior to making an award or to not award the bid at all.**
- **Please note that the ICSW may add to or decrease the amount of work shown on these plans.**

#### **CONTRACT TIME**

- Substantial completion for the project is 60 days and Final Completion is 90 days from the Notice to Proceed.
- Liquidated damages for this project will be \$500/day.

#### **ADDENDA**

- As of the date of the pre-bid meeting, one addendum has been issued. If any bidders have not received this, please request to be included on email chain for future correspondence.
- All attendees will receive a copy of these meeting notes and any clarifications and answered questions as Addendum No. 2.



- All questions must be made in writing to CEC and emailed to Brock McNabb at [bmcnabb@cecenv.com](mailto:bmcnabb@cecenv.com) and [tboller@co.iredell.nc.us](mailto:tboller@co.iredell.nc.us). Only written Addendums from CEC or OWNER are to be relied upon. No addendums will be issued within 5 days of the bid opening.

### **COMMENTS FROM OWNER, ENGINEER, AND OTHERS**

- The Contractor shall keep Twin Oaks Rd. clean at all times particularly the entrance road.
- Safety first - The Contractor is responsible for his own health and safety and is made aware that there may be high methane and hydrogen sulfide in the LFG and waste areas. Contractor to prepare a site-specific health and safety plan and to use portable 4-gas meters (CH<sub>4</sub>, CO, O<sub>2</sub>, and H<sub>2</sub>S) during all well drilling and during trench work. No entry into any excavated trench or other confined space without immediate determination of the air quality prior to entry.
- The Contractor shall protect and be responsible for his Work, equipment and lay-down areas during all inclement weather. Lay down area will likely be on top of Phase 1 and 2 and should be coordinated with ICSW.
- Emergencies – The Contractor shall have someone available at all times for the duration of this project, for any emergencies Contractor to make someone available to dispatch to the site within two (2) hours of notification to make any corrective measures. If the Contractor cannot be reached within one-half hour, the Owner may make any necessary corrective measures and the cost of such measures to be borne by the Contractor.
- Notifications – The Contractors main address (used in the Contract), field office and e-mail will be sufficient for delivering official communications and correspondence. The date delivered or postmarked will be the date of service. All notifications and communications from the Contractor shall address one item per letter.
- Surveying – The Contractor will be required to use a licensed North Carolina surveyor for the pre-construction survey, any surveys for measurement and payment, and the final as-built survey. The Contractor can use qualified (non-licensed) personnel to perform surveys for grade and other intermediate surveys during construction. Please see Section 01052 in the Specifications. ICSW may provide the Municipal Engineering surveyor of record contact.
- Existing Grades – The grades shown on the Drawings are based on a June 2021 aerial survey provided by the Owner and all surface elevations

should be verified prior to any well construction event. The Contractor shall perform a pre-construction survey and provide the northing, easting, and elevation of all vertical wells at minimum 5 days prior to beginning any well drilling, along with header and lateral bends and connections to the Engineer for review.

## **QUESTIONS**

- All questions and clarifications will be responded to with formal addenda and included as part of the Bid Documents, sent out to all registered bidders and posted to the Iredell County website.

## **SITE TOUR**

- A site tour was completed by most attendees and led by Ray Hoffman as mentioned above.
- Bidders are permitted to make any additional on-site investigations, site walks, etc. after the formal site tour. Any additional, future on-site visitations should be coordinated with Teddy Boller, ICSW, prior to arrival.

## **ADJOURN**

**IREDELL COUNTY LANDFILL  
LANDFILL GAS SYSTEM CONSTRUCTION  
PRE-BID MEETING – SIGN IN SHEET**

**NOVEMBER 15, 2021  
10:00 AM**

Name	Company	Phone Number	Email Address
ADAM SMITH <small>Contact - Steve Smith</small>	SCL-Field Services	Contact - 571-643-4324 843-680-2253	Contact SESmith@SESengineers.com edamsmith@sesengineers.com
GENE MENUTT	Acton Env	980 429 0323	jens.menutt@actn.com
Willis Ellis	Advance One Dev.	828-406-3468	advanceone@landfillgroup.com
Michelle Lopez	HNA Contracting	915 861 9759	mlopez@HNA-contracting.com
Jeff Enochs	AEL	330-351-6104	jenochs@aegl.net
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