

Agenda Request For: February 8, 2006

Department: Solid Waste Management

Background: See Golder proposal 993-3928.65 dated 1/23/06 entitled "Cost Proposal for Modifications/Repairs to the U-Trap and Southwest Sump Pump and Flare at West Nassau Landfill."

Financial/Economic Impact to Future Years Budgeting Process or Effect on Citizens:
Will consider in future budgets as required.

Action requested and recommendation:
Request the Board consider approving Golder Associates cost proposal 993-3928.65 for **\$11,200.00**. *Golder Labor and Exp \$1,600 and Subcontractor cost (Sligo Systems & Corporate Electric) \$9,600.*

Is this action consistent with the Nassau County Comprehensive Land Use Plan?
Public Facility Element Section 4

Funding Source: 70341534-531000 with budget transfer to new account entitled "PS-Golder-.65 U-Trap /Flare"

Available Budget \$262,000 at 2/1/06

Reviewed by:

Department Head

Lee Schmitt

Legal

[Signature]

Administrator

Finance

Administrative Services

Conty 2/1/06

Grants

Revised 09/05

APPROVED

DATE 2/8/06
or

4

Golder Associates Inc.
8933 Western Way, Suite 12
Jacksonville, FL USA 32256
Telephone (904) 363-3430
Fax (904) 363-3445



January 23, 2006

993-3928.65

West Nassau Landfill
46026 Landfill Road
Callahan, Florida 32011

Attention: Mr. Lee Pickett, Interim Solid Waste Director

RE: **COST PROPOSAL FOR
MODIFICATIONS/REPAIRS TO THE U-TRAP AND
SOUTHWEST SUMP PUMP AND FLARE
WEST NASSAU LANDFILL
NASSAU COUNTY, FLORIDA**

*2/8
ABOWNA
ADDITIONAL
BACKUP
TO
PLOW*

Dear Lee:

Golder Associates Inc. (Golder) is pleased to submit this cost proposal to the Nassau County Board of County Commissioners (Board) to obtain subcontractors and provide oversight to make necessary modifications and repairs to the pump in the U-trap (at the flare), the pump in the condensate sump (southwest corner), control panels associated with the pumps, and the flare (proper grounding) at the West Nassau Landfill. This cost proposal was prepared at the request of Mr. Mike Mahaney, Nassau County Administrator, Ms. Sue Jarzyna, Assistant County Attorney, and Jose Deliz, County Engineer, during a meeting held at the County Administrator's office on December 1, 2005. The following provides a description of the proposed scope of services, schedule, estimated costs, and terms and conditions. It is noted that Golder will retain two subcontractors that will provide the bulk of the services, with management and limited oversight by Golder.

SCOPE OF SERVICES

As directed by the County, Golder contacted Mr. Scot Forrest of Lucas Technologies (a.k.a. Sligo Systems) regarding the replacement of the LFG pump in the U-trap sump. Mr. Forrest had been to the West Nassau Landfill previously as an EPG representative and was familiar with the pump in question. Mr. Forrest requested that he conduct a site visit to evaluate the condition of the sump, the site's pump, and its associated ancillary equipment in order to develop a cost estimate. On December 15, 2005, two representatives of Sligo and Wendy Karably of Golder visited the site and evaluated the entire flare and U-trap area (at no cost to the County). During our visit, it was discovered that the pump in the sump in the southwest corner of the site was not operating. Additionally, as had previously been expressed, Sligo reiterated its concerns about the grounding of the flare and the pump control panels. Sligo then prepared a cost proposal (attached) to conduct various modifications and repairs to resolve all the observed problems including the installation of a pump into the U-trap sump. One of the recommendations in the Sligo proposal is that an electrician be retained to install the proper grounding at the flare and the pump control panels. Golder contacted a local electrician that we have worked with on other projects, Corporate Electric, and requested a proposal. Corporate Electric's proposal is also attached.

Golder will provide project management regarding the contracts with Sligo and Corporate Electric; coordinate the schedule with the landfill staff, Sligo, and Corporate Electric; and provide limited oversight of the on-site work to assure that the appropriate modifications and repairs are made so that the pumps and sumps and flare will operate as designed.

SCHEDULE

Assuming this cost proposal is approved by the Board at its February 8, 2006 meeting, Golder will coordinate with the landfill staff, Sligo, and Corporate Electric to schedule the work as soon as practical – hopefully, the week of February 13, 2006. As described in Sligo’s proposal, the landfill staff must be able to have the existing pump pulled from the southwest condensate pump and the new EPG pump (already on site) be lowered into the sump with a bubbler tube attached (to be sent to the site) before the Sligo technicians arrive on site. Therefore, it will be key that the landfill staff commit to scheduling a date for this work first, so the subcontractors can be scheduled for the next day. Sligo estimates that it will take its technicians one (long) day to complete the work and the electrician should be on site that same day. Golder will provide a senior technician familiar with similar pump and control systems to be on site for a portion this same day

COST ESTIMATE

The costs for the services as outlined in this proposal are presented below. These costs include a 10 percent mark-up on the subcontractor costs to cover Golder’s administrative costs.

Task	Golder Labor	Golder Exp.	Subcontractor Cost	Total Estimated Cost
Modifications/Repairs LFG Sys.	\$1,500.00	\$100.00	\$9,600.00	\$11,200.00



TERMS AND CONDITIONS

This work will be performed under the Agreement for Consulting Services between Golder and the County, dated February 22, 1999.

Golder appreciates this opportunity to provide continuing services to Nassau County. If you have any questions regarding this cost proposal, please do not hesitate to call.

Sincerely,

GOLDER ASSOCIATES INC.

Wendy D. Karably
Senior Consultant/Associate

cc: Mike Mahaney – Nassau County Administrator

Attachments



SLIGO SYSTEMS
Landfill Pumps & Controls

123 N. Orchard Street, 1-B
Ormond Beach, FL 32174
386-547-1524

1/20/2006

Reference: Nassau County Landfill Upgrade.

Dear Wendy,

This report contains a detailed description of the work that Sligo Systems (Sligo) recommends be completed at the U-trap location as well as the lift station on the southeast corner of the landfill site to bring it up to a standard that will ensure trouble free liquid transfer and also reduce the failures that we have seen over the last year or two. We have seen pump failures, erratic liquid level readings, failed transducers, and electrical work that is still incomplete. We have made suggestions in the past regarding the work that needs to be completed at the Flare station, especially in regard to the grounding issue. We now are entering 2006 and these issues have still not been resolved; it is clear that unless these tasks are taken care of, the troubles will not simple 'go away', in reality, they could get a lot worse.

The sequence of events ideally would follow this trend:

1. Landfill staff would pull the existing EPG pump out of the sump at the southeast corner of the landfill prior to Sligo's arrival. Based on a site visit conducted on December 15, 2005, this pump has failed and is not pumping any liquid. It is our understanding that the site has one new EPG pump in storage. This pump should be set back into the sump at the southeast corner. However, instead of replacing the transducer on this pump, the landfill staff should couple our bubbler tube (supplied in advance by us) to the side of the pump. The top of the well should be left open for our technicians to run the rest of the bubbler tube from the top of the sump into a breakout box and then underground to the panels. By the landfill staff having done this work in advance of our attendance, the County will save money in our labor time. The failed EPG pump will be taken back to our facility for a full inspection and costing for repair. Once repaired, this pump could be held on site for a spare.

2. The flare and pump area is still not adequately grounded. This must be completed immediately. The fact that the site is not grounded correctly has likely contributed (again) to the failure of the EPG pump located in the lift station at the southeast corner of the landfill. Our test conducted while on site on December 15th 2005 indicated that the motor coupled to the EPG pump had been damaged. Without physically pulling the pump and inspecting it, our above ground tests indicted that the pump had 'single phased' and was not running. It is common for this to occur following any wild voltage fluctuation, power spike, or lightening strike. With insufficient grounding the likelihood of this causing damage to the pump is greatly increased. Therefore, we need an electrician to attend the site on the same day as we are there to drive grounding rods into the earth and then couple them in an orderly form into the flare panel. It is our understanding that the electrician will be contracted by Golder. Per NEC standards, the Ohms to ground should be 25 Ohms or less. Without correctly grounded equipment, there will always be failures and costly damage to pumps and controls alike. Sligo Systems will not warranty any work or installed equipment unless this grounding issue is dealt with. Currently, there is a grounding wire run from the Flare panel through the EPG panels directly to the power pole. This does not provide adequate grounding. The only way to achieve this is to drive grounding rods into the water table and from there, link each electrical component in a 'daisy chain' fashion.

3. The following work will be completed by Sligo Systems while on site:
 - A. Install Sligo Systems Series 1 pump in U-trap (specifications attached).
 - B. Install circuit breakers in both EPG panels and make the existing fuse assemblies sacrificial. The cost of having to retain on site spare fuses and having to replace blown fuses can mount up, so we suggest using circuit breakers. It is easier to see if there has been a power surge as well as to flick a switch to rectify. There would also be no need to hold spare fuses on site.
 - C. Install pump run time meters in both EPG panels. Right now there is no means to display or record how many hours the pumps have been running. It is our understanding that at some point in the future the landfill will have to record the number of hours that each pump has run. By installing run time meters it is easy for the operator to identify whether the pump is operating.

While on site in December of 2005, landfill staff 'assumed' that the pump located on the southeast corner was running just fine, however, we identified that this was not the case. The landfill had no idea that the pump had failed. If run time meters were installed it would be possible to monitor the number of hours that the pump has operated¹.

- D. Install upgraded lightening suppression in both EPG panels. This site is prone to lightening strikes and heavy storms. The current suppression needs to be improved.
4. We previously identified that the low voltage transducer cable is being run in the same conduit as the high voltage pump power cable. This is not recommended and can contribute to 'electrical noise' problems. It is not suggested that new conduit is run and these cables separated as this would be very costly and labor intensive. Our plan is to use the original buried conduit and run our bubbler tube through this along with the pump power cord. The electrical power wire between the pump and panel assemblies are also undersized. These need to be replaced. We will install new power cable at the same time as the bubble tube is fed through the conduit. The net result will be that transducers will not be used for level control. The new system will use our variable speed bubbler system. This should also assist in 'dampening out' the wildly varying liquid levels that are displayed on the U-trap panel. The reason for this is directly connected to the flare system drawing a column of water through the system toward the U-trap. This can never be completely eliminated, however, the symptoms can be reduced somewhat. We intend to use this same bubbler system in the U-trap as well as the lift station located on the southeast corner of the landfill site. This will standardize the control system.
 5. At the time that we install our Sligo Series 1 pump in the U-trap we will install new discharge hose in the U-trap as well as use stainless steel cam lock fittings to connect the pump assembly. During this installation we will run conduit between the U-trap sump and the

¹ Flow meters may also be useful if installed downstream of the pump at the southeast corner to monitor and record actual flow rates. No flow for several days would indicate a failure of some kind. It is important to know when something has gone wrong and resolve such issues immediately. Flow meters can be purchased from Sligo Systems and installed by the landfill staff. We suggest this is not explored any further until the other topics discussed in this report are resolved.

control panel that controls this pump. We will ensure that the entire system is 'sealed off' correctly to prevent gas migration from the sump area into the control panels.

The work that needs to be completed by Sligo Systems will take approximately 12 hours (including travel) to complete with two technicians. The grounding shall be completed by an authorized electrician (contracted by Golder). If additional time on site is required, then Sligo Systems will bill additional working hours (per technician) as needed. Mileage and subsistence is included in the hourly costs for the technicians. Any pump repair to the existing EPG pump located in the southwest wet well is also not included in this proposal; we will provide a separate cost estimate to the County after a full pump and motor inspection has been completed at our service facility. It would be improper to commit to a price ahead of time, not knowing the condition of the pump and motor assembly.

The total cost for all materials, services and labor will be \$6,800.00. Of this amount \$5,000.00 will be materials, the remainder is labor.

Regards,

Scot Forrest

Orlando Office:
6855 Hanging Moss Rd
Orlando, FL 32807
Phone: (407) 677-4080
Fax: (407) 677-8919



Jacksonville Office:
5783 Minning Terrace
Jacksonville, FL 32257
Phone: (904) 886-4370
Fax (904) 886-4372

Proposal

January 23, 2006

GOLDER ASSOCIATES
8933 Western Way
Suite 12
Jacksonville, FL 32256

Attn: Wendy Karably

We propose to furnish labor and material to provide Grounding per National Electric Code at West Nassau Landfill, Callahan, FL

- 1) Provide (3) Grounding Points, each Point to have (3) 5/8" X 8' copper sectional rods; each Point to be 10' on center.
- 2) Provide Grounding at two (2) Sump Pump Control Panels.
- 3) Provide Grounding on two (2) Electric Panels adjacent to Flare.
- 4) Provide Grounding on Flare Stack (1) Point.
- 5) Provide Grounding to Steel Plate that Flare Stack and Electric are on. Plate is approximately 14' X 24'.
- 6) Provide Grounding around Flare in two (2) places on Chain Link Fence.
- 7) Ground Wire will be #2 Tinned Coated Solid Copper Wire.
- 8) All connections to Ground Rods and 2-Hole Lugs to be Exothermic Cadwelds.
- 9) Use Stainless Steel Nuts and Bolts to connect to Panels and Plate.
- 10) Test Ground prior to connections for 25-Ohms or less. Provide documentation to Golder Associates.
- 11) Remove paint from surfaces prior to connecting; touch up with Cold Galvanized paint.
- 12) Sales Tax, License and Permit included.

Exclusions: There will be an additional cost if cannot get at least 25-Ohms or less on Grounding.

We propose to complete the above mentioned work for a total sum of:

One Thousand Nine Hundred Twenty Eight..... \$1,928.00

Many Thanks,

Danny Padgett

Agenda Request For: February 8, 2006

Department: Solid Waste Management

Background: See Golder proposal 993-3928.65 dated 1/23/06 entitled "Cost Proposal for Modifications/Repairs to the U-Trap and Southwest Sump Pump and Flare at West Nassau Landfill."

Financial/Economic Impact to Future Years Budgeting Process or Effect on Citizens: Will consider in future budgets as required.

Action requested and recommendation:

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Is this action consistent with the Nassau County Comprehensive Land Use Plan? Public Facility Element Section 4

Funding Source: 70341534-531000 with budget transfer to new account entitled "PS-Golder-.65 U-Trap/Flare"

Available Budget \$262,000 at 2/1/06

Reviewed by:

Department Head

[Signature]

Legal

Administrator

Finance

[Signature]

Administrative Services

[Signature] 2/1/06

Grants

Revised 09/05

continuing contract; does not exceed \$50,000 per F.S. 287.055

Agenda Request For: February 8, 2006

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Reviewed by:

Department Head _____

Legal _____

Administrator _____

Finance _____

Administrative Services _____

Grants _____

Revised 09/05

01/24/2006
12:48:31

BOARD OF COMMISSIONERS
YEAR TO DATE BUDGET REPORT
EXPENDITURES

PAGE 1
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FOR 2006 13

470	SOLID WASTE MGMT FUND	ORIGINAL APPROP	REVISED BUDGET	YTD EXPENDED	MTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED

470	SOLID WASTE MGMT FUND							

470	SOLID WASTE MGMT FUND							

70341534	LANDFILL OPERATIONS							

70341534	512000 REGULAR SALARIES AND WA	441,586	441,586	123,082.28	.00	.00	318,503.72	27.9%
70341534	513000 OTHER SALARIES/WAGES (NO	0	0	.00	.00	.00	.00	.0%
70341534	514000 OVERTIME	22,100	22,100	10,644.98	.00	.00	-8,544.98	138.74*
70341534	515000 SPECIAL PAY (NO RETIREM	0	0	.00	.00	.00	.00	.0%
70341534	521010 FICA TAXES	28,749	28,749	9,301.41	.00	.00	19,447.59	32.4%
70341534	521020 MEDICARE TAXES	6,724	6,724	2,175.34	.00	.00	4,548.66	32.4%
70341534	522000 RETIREMENT	38,672	38,672	11,949.78	.00	.00	26,722.22	30.9%
70341534	523010 LIFE & HEALTH INSURANCE	72,890	72,890	20,710.66	.00	.00	52,179.34	28.4%
70341534	523020 RETIREE HEALTH INSURANC	4,945	4,945	398.91	.00	.00	4,546.09	8.1%
70341534	524010 WORKERS' COMPENSATION	42,316	42,316	.00	.00	.00	42,316.00	.0%
70341534	524021 WKS COMP-GRIT	0	0	.00	.00	.00	.00	.0%
70341534	525000 UNEMPLOYMENT COMPENSATI	0	0	.00	.00	.00	.00	.0%
70341534	531000 PROFESSIONAL SERVICES Fr	300,000	281,245	296.61	.00	1,147.14	279,801.25	.5%
70341534	531031 EMPLOYEE PHYSICALS	130	130	.00	.00	.00	130.00	.0%
70341534	531035 DRUG TESTING	1,350	1,350	38.00	.00	.00	1,312.00	2.8%
70341534	531201 PROF SERVICES-ATTORNEY	0	0	.00	.00	.00	.00	.0%
70341534	531302 PROF SERVICES-GOLDER	102,000	34,575	.00	.00	.00	34,575.00	.0%
70341534	531307 PROF SVC-(IV)-ENG & SVY	0	0	.00	.00	.00	.00	.0%
70341534	531311 PROF SERVICES-WEST MASS	53,000	54,703	.00	.00	54,703.00	.00	100.0%
70341534	531313 PROF SERVICES-LEECHATE-	295,000	350,000	82,079.69	.00	117,063.03	150,857.28	56.9%
70341534	531323 PS-GOLDER 1928.38 (IV)	0	0	.00	.00	.00	.00	.0%
70341534	531324 PS-GOLDER-CAR	5,000	5,000	.00	.00	.00	5,000.00	.0%
70341534	531325 PS-GOLDER-OLM LFG 1928.	11,000	35,425	.00	.00	.00	35,425.00	.0%
70341534	531326 PS-GOLDER 1928.42	2,000	2,000	.00	.00	.00	2,000.00	.0%
70341534	531327 GOLDER 1928.49 TASK 100	26,000	26,000	.00	.00	.00	26,000.00	.0%
70341534	531329 GOLDER 1928.49 TASK 200	0	0	.00	.00	.00	.00	.0%
70341534	531335 PS GOLDER 1928.64 PCAP	0	0	.00	.00	.00	.00	.0%
70341534	531390 GOLDER 1928.49 TASK 400	0	0	.00	.00	.00	.00	.0%
70341534	531391 GOLDER 1928.49 TASK 300	0	0	.00	.00	.00	.00	.0%
70341534	531392 GOLDER 1928.49 TASK 500	0	0	.00	.00	.00	.00	.0%
70341534	531393 GOLDER 1928.49 TASK 600	0	0	.00	.00	.00	.00	.0%
70341534	531394 GOLDER 1928.50	0	0	.00	.00	.00	.00	.0%
70341534	531395 GOLDER .51-EXPERT MITNE	0	0	.00	.00	.00	.00	.0%
70341534	531396 G-1928.53-PERMITTING BOR	0	0	.00	.00	.00	.00	.0%
70341534	531397 GOLDER 1928.54 PERMIT W	0	0	.00	.00	.00	.00	.0%
70341534	531398 GOLDER 1928.49 TASK 700	0	0	.00	.00	.00	.00	.0%
70341534	531416 GOLDER .61 ODER CONTROL	0	43,000	.00	.00	.00	43,000.00	.0%
70341534	531450 PS-OPERATIONAL & FIN AN	50,000	50,000	.00	.00	.00	50,000.00	.0%

To: Project 993-3928.65 (New Accl)
PS-Golder .65 U-Trap/Flare

Golder Associates Inc.
8933 Western Way, Suite 12
Jacksonville, FL USA 32256
Telephone (904) 363-3430
Fax (904) 363-3445



January 23, 2006

993-3928.65

West Nassau Landfill
46026 Landfill Road
Callahan, Florida 32011

Attention: Mr. Lee Pickett, Interim Solid Waste Director

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WEST NASSAU LANDFILL
NASSAU COUNTY, FLORIDA

*2/8
AGENDA
ADDITIONAL
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TO
POWER*

Dear Lee:

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West Nassau Landfill
Mr. Lee Pickett

- 2 -

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993-3928.65

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Sincerely,

GOLDER ASSOCIATES INC.



Wendy D. Karably
Senior Consultant/Associate

cc: Mike Mahaney – Nassau County Administrator

Attachments

FN: G:\Projects\997491-36993-2528\PROPOSAL\0001 prop Pump Repairs 2006.doc

Golder Associates



1/20/2006

Reference: Nassau County Landfill Upgrade.

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The sequence of events ideally would follow this trend:

1. Landfill staff would pull the existing EPG pump out of the sump at the southeast corner of the landfill prior to Sligo's arrival. Based on a site visit conducted on December 15, 2005, this pump has failed and is not pumping any liquid. It is our understanding that the site has one new EPG pump in storage. This pump should be set back into the sump at the southeast corner. However, instead of replacing the transducer on this pump, the landfill staff should couple our bubbler tube (supplied in advance by us) to the side of the pump. The top of the well should be left open for our technicians to run the rest of the bubbler tube from the top of the sump into a breakout box and then underground to the panels. By the landfill staff having done this work in advance of our attendance, the County will save money in our labor time. The failed EPG pump will be taken back to our facility for a full inspection and costing for repair. Once repaired, this pump could be held on site for a spare.

2. The flare and pump area is still not adequately grounded. This must be completed immediately. The fact that the site is not grounded correctly has likely contributed (again) to the failure of the EPG pump located in the lift station at the southeast corner of the landfill. Our test conducted while on site on December 15th 2005 indicated that the motor coupled to the EPG pump had been damaged. Without physically pulling the pump and inspecting it, our above ground tests indicated that the pump had 'single phased' and was not running. It is common for this to occur following any wild voltage fluctuation, power spike, or lightning strike. With insufficient grounding the likelihood of this causing damage to the pump is greatly increased. Therefore, we need an electrician to attend the site on the same day as we are there to drive grounding rods into the earth and then couple them in an orderly form into the flare panel. It is our understanding that the electrician will be contracted by Golder. Per NEC standards, the Ohms to ground should be 25 Ohms or less. Without correctly grounded equipment, there will always be failures and costly damage to pumps and controls alike. Sligo Systems will not warranty any work or installed equipment unless this grounding issue is dealt with. Currently, there is a grounding wire run from the Flare panel through the EPG panels directly to the power pole. This does not provide adequate grounding. The only way to achieve this is to drive grounding rods into the water table and from there, link each electrical component in a 'daisy chain' fashion.

3. The following work will be completed by Sligo Systems while on site:
- A. Install Sligo Systems Series 1 pump in U-trap (specifications attached).
 - B. Install circuit breakers in both EPG panels and make the existing fuse assemblies sacrificial. The cost of having to retain on site spare fuses and having to replace blown fuses can mount up, so we suggest using circuit breakers. It is easier to see if there has been a power surge as well as to flick a switch to rectify. There would also be no need to hold spare fuses on site.
 - C. Install pump run time meters in both EPG panels. Right now there is no means to display or record how many hours the pumps have been running. It is our understanding that at some point in the future the landfill will have to record the number of hours that each pump has run. By installing run time meters it is easy for the operator to identify whether the pump is operating.

While on site in December of 2005, landfill staff 'assumed' that the pump located on the southeast corner was running just fine, however, we identified that this was not the case. The landfill had no idea that the pump had failed. If run time meters were installed it would be possible to monitor the number of hours that the pump has operated¹.

- D. Install upgraded lightening suppression in both EPG panels. This site is prone to lightening strikes and heavy storms. The current suppression needs to be improved.
4. We previously identified that the low voltage transducer cable is being run in the same conduit as the high voltage pump power cable. This is not recommended and can contribute to 'electrical noise' problems. It is not suggested that new conduit is run and these cables separated as this would be very costly and labor intensive. Our plan is to use the original buried conduit and run our bubbler tube through this along with the pump power cord. The electrical power wire between the pump and panel assemblies are also undersized. These need to be replaced. We will install new power cable at the same time as the bubble tube is fed through the conduit. The net result will be that transducers will not be used for level control. The new system will use our variable speed bubbler system. This should also assist in 'dampening out' the wildly varying liquid levels that are displayed on the U-trap panel. The reason for this is directly connected to the flare system drawing a column of water through the system toward the U-trap. This can never be completely eliminated, however, the symptoms can be reduced somewhat. We intend to use this same bubbler system in the U-trap as well as the lift station located on the southeast corner of the landfill site. This will standardize the control system.
5. At the time that we install our Sligo Series 1 pump in the U-trap we will install new discharge hose in the U-trap as well as use stainless steel cam lock fittings to connect the pump assembly. During this installation we will run conduit between the U-trap sump and the

¹ Flow meters may also be useful if installed downstream of the pump at the southeast corner to monitor and record actual flow rates. No flow for several days would indicate a failure of some kind. It is important to know when something has gone wrong and resolve such issues immediately. Flow meters can be purchased from Sligo Systems and installed by the landfill staff. We suggest this is not explored any further until the other topics discussed in this report are resolved.

control panel that controls this pump. We will ensure that the entire system is 'sealed off' correctly to prevent gas migration from the sump area into the control panels.

The work that needs to be completed by Sligo Systems will take approximately 12 hours (including travel) to complete with two technicians. The grounding shall be completed by an authorized electrician (contracted by Golder). If additional time on site is required, then Sligo Systems will bill additional working hours (per technician) as needed. Mileage and subsistence is included in the hourly costs for the technicians. Any pump repair to the existing EPG pump located in the southwest wet well is also not included in this proposal; we will provide a separate cost estimate to the County after a full pump and motor inspection has been completed at our service facility. It would be improper to commit to a price ahead of time, not knowing the condition of the pump and motor assembly.

The total cost for all materials, services and labor will be \$6,800.00. Of this amount \$5,000.00 will be materials, the remainder is labor.

Regards,

Scot Forrest

Orlando Office:
8856 Hanging Moss Rd
Orlando, FL 32807
Phone: (407) 677-4080
Fax: (407) 677-8919



Jacksonville Office:
5783 Minning Terrace
Jacksonville, FL 32257
Phone: (904) 886-4370
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Proposal

January 23, 2006

GOLDER ASSOCIATES
8933 Western Way
Suite 12
Jacksonville, FL 32256

Attn: Wendy Karably

We propose to furnish labor and material to provide Grounding per National Electric Code at West Nassau Landfill, Callahan, FL.

- 1) Provide (3) Grounding Points, each Point to have (3) 5/8" X 8' copper sectional rods; each Point to be 10' on center.
- 2) Provide Grounding at two (2) Sump Pump Control Panels.
- 3) Provide Grounding on two (2) Electric Panels adjacent to Flare.
- 4) Provide Grounding on Flare Stack (1) Point.
- 5) Provide Grounding to Steel Plate that Flare Stack and Electric are on. Plate is approximately 14' X 24'.
- 6) Provide Grounding around Flare in two (2) places on Chain Link Fence.
- 7) Ground Wire will be #2 Tinned Coated Solid Copper Wire.
- 8) All connections to Ground Rods and 2-Hole Lugs to be Exothermic Cadwelds.
- 9) Use Stainless Steel Nuts and Bolts to connect to Panels and Plate.
- 10) Test Ground prior to connections for 25-Ohms or less. Provide documentation to Golder Associates.
- 11) Remove paint from surfaces prior to connecting; touch up with Cold Galvanized paint.
- 12) Sales Tax, License and Permit included.

Exclusions: There will be an additional cost if cannot get at least 25-Ohms or less on Grounding.

We propose to complete the above mentioned work for a total sum of

One Thousand Nine Hundred Twenty Eight..... \$1,928.00

Many Thanks,

Danny Padgett

STATE CERTIFIED EC0001584

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BOARD OF COMMISSIONERS
YEAR TO DATE BUDGET REPORT
EXPENDITURES

PAGE 1
glytbdud

FOR 2006 13

470	SOLID WASTE MGMT FUND	ORIGINAL APPROP	REVISED BUDGET	YTD EXPENDED	MTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED

470 SOLID WASTE MGMT FUND								

70341534 LANDFILL OPERATIONS								

70341534	512000 REGULAR SALARIES AND WA	441,586	441,586	123,082.28	.00	.00	318,503.72	27.9%
70341534	513000 OTHER SALARIES/WAGES(NO	0	0	.00	.00	.00	.00	.0%
70341534	514000 OVERTIME	22,100	22,100	30,644.98	.00	.00	-8,544.98	138.7%*
70341534	515000 SPECIAL PAY (NO RETIREM	0	0	.00	.00	.00	.00	.0%
70341534	521010 FICA TAXES	28,749	28,749	9,301.41	.00	.00	19,447.59	32.4%
70341534	521020 MEDICARE TAXES	6,724	6,724	2,175.34	.00	.00	4,548.66	32.4%
70341534	522000 RETIREMENT	38,672	38,672	11,949.78	.00	.00	26,722.22	30.9%
70341534	523010 LIFE & HEALTH INSURANCE	72,890	72,890	20,710.66	.00	.00	52,179.34	28.4%
70341534	523020 RETIREE HEALTH INSURANC	4,945	4,945	398.91	.00	.00	4,546.09	8.1%
70341534	524010 WORKERS' COMPENSATION	42,316	42,316	.00	.00	.00	42,316.00	.0%
70341534	524021 WKRS COMP-GRIT	0	0	.00	.00	.00	.00	.0%
70341534	525000 UNEMPLOYMENT COMPENSATI	0	0	.00	.00	.00	.00	.0%
70341534	531000 PROFESSIONAL SERVICES <i>Fr:</i>	300,000	281,245	296.61	.00	1,147.14	279,801.25	.5%
70341534	531031 EMPLOYEE PHYSICALS	130	130	.00	.00	.00	130.00	.0%
70341534	531035 DRUG TESTING	1,350	1,350	38.00	.00	.00	1,312.00	2.8%
70341534	531201 PROF SERVICES-ATTORNEY	0	0	.00	.00	.00	.00	.0%
70341534	531302 PROF SERVICES-GOLDER	102,000	34,575	.00	.00	.00	34,575.00	.0%
70341534	531307 PROF SVC- (IV)-ENG & SVY	0	0	.00	.00	.00	.00	.0%
70341534	531311 PROF SERVICES-WEST NASS	53,000	54,703	.00	.00	54,703.00	.00	100.0%
70341534	531313 PROF SERVICES-LEECHATE-	295,000	350,000	82,079.69	.00	117,063.03	150,857.28	56.9%
70341534	531323 PS-GOLDER 3928.38(IV)	0	0	.00	.00	.00	.00	.0%
70341534	531324 PS-GOLDER-CAR	5,000	5,000	.00	.00	.00	5,000.00	.0%
70341534	531325 PS-GOLDER-O&M LFG 3928.	11,000	35,425	.00	.00	.00	35,425.00	.0%
70341534	531326 PS-GOLDER 3928.42	2,000	2,000	.00	.00	.00	2,000.00	.0%
70341534	531327 GOLDER 3928.49 TASK 100	26,000	26,000	.00	.00	.00	26,000.00	.0%
70341534	531329 GOLDER 3928.49 TASK 200	0	0	.00	.00	.00	.00	.0%
70341534	531335 PS GOLDER 3928.64 PCAP	0	0	.00	.00	.00	.00	.0%
70341534	531390 GOLDER 3928.49 TASK 400	0	0	.00	.00	.00	.00	.0%
70341534	531391 GOLDER 3928.49 TASK 300	0	0	.00	.00	.00	.00	.0%
70341534	531392 GOLDER 3928.49 TASK 500	0	0	.00	.00	.00	.00	.0%
70341534	531393 GOLDER 3928.49 TASK 600	0	0	.00	.00	.00	.00	.0%
70341534	531394 GOLDER 3928.50	0	0	.00	.00	.00	.00	.0%
70341534	531395 GOLDER .51-EXPERT WITNE	0	0	.00	.00	.00	.00	.0%
70341534	531396 G-3928.53-PERMITING BOR	0	0	.00	.00	.00	.00	.0%
70341534	531397 GOLDER 3928.54 PERMIT W	0	0	.00	.00	.00	.00	.0%
70341534	531398 GOLDER 3928.49 TASK 700	0	0	.00	.00	.00	.00	.0%
70341534	531416 GOLDER .63 ODER CONTROL	0	43,000	.00	.00	.00	43,000.00	.0%
70341534	531450 PS-OPERATIONAL & FIN AN	50,000	50,000	.00	.00	.00	50,000.00	.0%

To: Project 993-3928.65 (New Acct)
PS-Golder .65 U-Trap / Flare