



# SANTA ROSA COUNTY ENVIRONMENTAL DEPARTMENT

6065 Old Bagdad Highway | Milton, Florida 32583

ROGER BLAYLOCK, P.E., County Engineer  
rogerb@santarosa.fl.gov

RON HIXSON, Environmental Manager  
ronh@santarosa.fl.gov

## Memo

To: Tony Gomillion, County Administrator

From: Ronald Hixson, Environmental Manager

Thru: Roger Blaylock, P.E., County Engineer

Date: April 22, 2016

Re: LFG WELL SEDIMENTATION REMOVAL

*Handwritten signature: R. Hixson*



### Discussion:

The LFG collection system at Central Landfill employs 30 vertical extraction wells to collect and transfer landfill gas to the Blower/Flare station for processing and destruction. These wells are monitored for LFG gas composition and gas production on a bi-weekly basis. It has been noted that gas production has been steadily decreasing for several of the wells over the past year. Upon further investigation it was discovered that seven (7) of the LFG production wells have slowly begun collecting sediment which in turns blocks the flow of LFG into the well.

### Finding:

Environmental Department staff has made several attempts to solicit bids to remove the sediment from several local drilling companies but none were interested or capable due to the constant flow of gas coming out of the wells while the work is being performed. The only company that has been found to date that is capable of performing the LFG well cleaning/sedimentation removal is Florida Jetclean. Florida Jetclean specializes in landfill leachate and LFG collection system maintenance and inspection. They use modified/explosion proof jetting equipment designed to achieve extended pipe/well distances found in landfill environments. Florida Jetclean staff estimates that cleaning/sediment removal for seven wells should take between two (2) and three (3) days. They have submitted a per day price of \$4,975.00 with a single mobilization charge of \$1,600.00.

### Actions to be Considered:

That the Board of County Commissioners (BOCC) will approve Florida Jetclean to Mobilize and work at the Central Landfill cleaning/removing sediment from the six (6) specified LFG wells for a maximum of three (3) days at \$4,975.00/day. The three (3) day total including mobilization would be \$16,525.00.

## Andrew Hill

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**From:** Ralph Calistri [floridajetclean@yahoo.com]  
**Sent:** Thursday, April 21, 2016 7:39 AM  
**To:** Andrew Hill  
**Cc:** Ron Hixson; Julian Cooley  
**Subject:** Re: Proposal for Landfill LCs Maintenance  
**Attachments:** Santa Rosa LF 2016 Gas Well Cleaning Proposal.pdf

Hi Andrew,

Please see attached proposal for gas well cleaning at Santa Rosa LF.

I really don't see the work taking longer than +/-2 days to complete.

Sorry for the delay.

Thank you.

Ralph Calistri - Florida Jetclean - 800-226-8013

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**From:** Andrew Hill <AndrewH@santarosa.fl.gov>  
**To:** Ralph Calistri <floridajetclean@yahoo.com>  
**Cc:** Ron Hixson <RonH@santarosa.fl.gov>; Julian Cooley <JulianC@santarosa.fl.gov>  
**Sent:** Friday, April 15, 2016 10:54 AM  
**Subject:** RE: Proposal for Landfill LCs Maintenance

Should be able to get within 10-15' of each well.

Thanks,

-Andrew

Andrew Hill  
Santa Rosa County Environmental Supervisor  
6065 Old Bagdad Hwy| Milton, Florida 32583  
P: 850.981.7135 | C: 850.232.5304 | F: 850.981.7133  
[Santarosa.fl.gov](http://Santarosa.fl.gov) | [Facebook](#) | [Twitter](#) | [Instagram](#)

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**From:** Ralph Calistri [mailto:floridajetclean@yahoo.com]  
**Sent:** Friday, April 15, 2016 9:52 AM  
**To:** Andrew Hill  
**Cc:** Ron Hixson; Julian Cooley  
**Subject:** RE: Proposal for Landfill LCs Maintenance

Andrew - How close can we get our vac truck to these wells? This will affect how much vacuum hose we need. Thank you.

Ralph Calistri - Florida Jetclean - 800-226-8013

----- Original message -----

From: Andrew Hill <[AndrewH@santarosa.fl.gov](mailto:AndrewH@santarosa.fl.gov)>  
Date: 4/1/16 3:06 PM (GMT-05:00)  
To: Ralph Calistri <[floridajetclean@yahoo.com](mailto:floridajetclean@yahoo.com)>  
Cc: Ron Hixson <[RonH@santarosa.fl.gov](mailto:RonH@santarosa.fl.gov)>, Julian Cooley <[JulianC@santarosa.fl.gov](mailto:JulianC@santarosa.fl.gov)>  
Subject: RE: Proposal for Landfill LCs Maintenance

Ralph,

The LFG wells that contain sediment are listed below. Their respective depths are listed as well. All wells are 6" and have caissons.

Well Number	Depth (feet)
EW-22	38'
EW-24	53'
EW-25	40'
EW-26	50'
EW-27	33'
EW-28	28'
EW-29	25'
EW-30	35'

Please let me know if you have any additional questions.

Thanks,

-Andrew

Andrew Hill  
Santa Rosa County Environmental Supervisor  
6065 Old Bagdad Hwy | Milton, Florida 32583  
P: 850.981.7135 | C: 850-232.5304 | F: 850.981.7133  
[Santarosa.fl.gov](http://Santarosa.fl.gov) | [Facebook](#) | [Twitter](#) | [Instagram](#)

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**From:** Ralph Calistri [<mailto:floridajetclean@yahoo.com>]  
**Sent:** Thursday, March 31, 2016 8:16 AM  
**To:** Andrew Hill  
**Cc:** Ron Hixson; Julian Cooley  
**Subject:** Re: Proposal for Landfill LCs Maintenance

Thanks Andrew.

I am working on the gas well cleaning proposal. Can you confirm the depth of the 6-7 wells and also that they are straight vertical for insertion of a smaller pipe to vacuum through?

Thank you.

Ralph Calistri - Florida Jetclean - 800-226-8013

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**From:** Andrew Hill <[AndrewH@santarosa.fl.gov](mailto:AndrewH@santarosa.fl.gov)>  
**To:** Ralph Calistri <[floridajetclean@yahoo.com](mailto:floridajetclean@yahoo.com)>  
**Cc:** Ron Hixson <[RonH@santarosa.fl.gov](mailto:RonH@santarosa.fl.gov)>; Julian Cooley <[JulianC@santarosa.fl.gov](mailto:JulianC@santarosa.fl.gov)>  
**Sent:** Thursday, March 31, 2016 8:23 AM  
**Subject:** RE: Proposal for Landfill LCs Maintenance

Hey Ralph,

Your invoice has been submitted for processing. They should cut a check on Wed. March 5<sup>th</sup> and it will be mailed.

Thanks,

-Andrew

**Andrew Hill**  
**Environmental Supervisor**  
**SRC Environmental Department**  
**Office: (850)-981-7135**  
**Cell: (850)-232-5304**

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**From:** Ralph Calistri [<mailto:floridajetclean@yahoo.com>]  
**Sent:** Tuesday, March 29, 2016 3:17 PM  
**To:** Andrew Hill  
**Cc:** Ron Hixson; Julian Cooley  
**Subject:** Re: Proposal for Landfill LCs Maintenance

Hi Andrew,

Attached please find our invoice for the jetting / video work on the existing Cells at Santa Rosa on 3/21 - 3/22.

I tried mailing it but the letter was returned to our office.

Can you please review and approve for processing?

Thank you.

Ralph Calistri - Florida Jetclean - 800-226-8013

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**From:** Andrew Hill <[AndrewH@santarosa.fl.gov](mailto:AndrewH@santarosa.fl.gov)>  
**To:** Ralph Calistri <[floridajetclean@yahoo.com](mailto:floridajetclean@yahoo.com)>  
**Cc:** Ron Hixson <[RonH@santarosa.fl.gov](mailto:RonH@santarosa.fl.gov)>; Julian Cooley <[JulianC@santarosa.fl.gov](mailto:JulianC@santarosa.fl.gov)>  
**Sent:** Tuesday, March 1, 2016 11:34 AM  
**Subject:** RE: Proposal for Landfill LCs Maintenance

Hey Ralph,

That sounds good, lets go ahead and tentatively plan for that and I will let you know if something changes.

Thanks,

-Andrew

**Andrew Hill**  
**Environmental Supervisor**  
**SRC Environmental Department**  
**Office: (850)-981-7135**  
**Cell: (850)-232-5304**

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**From:** Ralph Calistri [<mailto:floridajetclean@yahoo.com>]  
**Sent:** Monday, February 29, 2016 2:58 PM  
**To:** Andrew Hill  
**Cc:** Ron Hixson; Julian Cooley  
**Subject:** Re: Proposal for Landfill LCs Maintenance

Andrew - Atlantis is asking if we can mobilize to do the video-inspection work on the new Cell on 3/22. We want to coordinate the old and the new Cells together on one trip. How do you feel about that timing for our return to work on the existing Cells again? Thank you.

Ralph Calistri - Florida Jetclean - 800-226-8013

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**From:** Andrew Hill <[AndrewH@santarosa.fl.gov](mailto:AndrewH@santarosa.fl.gov)>  
**To:** Ralph Calistri <[floridajetclean@yahoo.com](mailto:floridajetclean@yahoo.com)>  
**Cc:** Ron Hixson <[RonH@santarosa.fl.gov](mailto:RonH@santarosa.fl.gov)>; Julian Cooley <[JulianC@santarosa.fl.gov](mailto:JulianC@santarosa.fl.gov)>  
**Sent:** Wednesday, February 24, 2016 11:25 AM  
**Subject:** RE: Proposal for Landfill LCs Maintenance.

Hey Ralph,

I have submitted your invoice for processing, and I am currently working to get approval of the proposal that you sent over with your invoice. I will let you know when we are ready to move forward.

Thanks,

-Andrew

**Andrew Hill**  
**Environmental Supervisor**  
**SRC Environmental Department**  
**Office: (850)-981-7135**  
**Cell: (850)-232-5304**

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**From:** Ralph Calistri [<mailto:floridajetclean@yahoo.com>]  
**Sent:** Tuesday, February 23, 2016 11:38 AM  
**To:** Andrew Hill  
**Cc:** Julian Coeey  
**Subject:** RE: Proposal for Landfill LCs Maintenance

Let me know when we can conference call. Thanks.

Ralph Calistri - Florida Jetclean - 800-226-8013

----- Original message -----

**From:** Andrew Hill <[AndrewH@santarosa.fl.gov](mailto:AndrewH@santarosa.fl.gov)>  
**Date:** 2/23/2016 12:24 PM (GMT-05:00)  
**To:** Ralph Calistri <[floridajetclean@yahoo.com](mailto:floridajetclean@yahoo.com)>  
**Cc:** Julian Coeey <[JulianC@santarosa.fl.gov](mailto:JulianC@santarosa.fl.gov)>  
**Subject:** RE: Proposal for Landfill LCs Maintenance

We all need to talk about this to figure out how/when to proceed.

Thanks,

-Andrew

**Andrew Hill**  
**Environmental Supervisor**  
**SRC Environmental Department**  
**Office: (850)-981-7135**  
**Cell: (850)-232-5304**

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**From:** Ralph Calistri [<mailto:floridajetclean@yahoo.com>]  
**Sent:** Tuesday, February 23, 2016 11:19 AM  
**To:** Andrew Hill  
**Cc:** Julian Coeey  
**Subject:** Re: Proposal for Landfill LCs Maintenance

Hi Andrew,

Attached please find our invoice for our initial mobilization to Santa Rosa Landfill on 2/16/16. Can you please approve and submit for processing?

We estimate that the work is a little under 50% completed.

I have also included a proposal to carry out the remainder of the pipe jetting and explosion-proof video-inspection work on a return visit.

Please let us know if the proposal is acceptable and when you would like to schedule.

Thank you.

Ralph Calistri - Florida Jetclean - 800-226-8013

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**From:** Andrew Hill <[AndrewH@santarosa.fl.gov](mailto:AndrewH@santarosa.fl.gov)>  
**To:** Ralph Calistri <[floridajetclean@yahoo.com](mailto:floridajetclean@yahoo.com)>  
**Cc:** Julian Coeey <[JulianC@santarosa.fl.gov](mailto:JulianC@santarosa.fl.gov)>  
**Sent:** Wednesday, February 17, 2016 3:24 PM  
**Subject:** RE: Proposal for Landfill LCs Maintenance

Ralph,

Your guys came out this morning and performed all of the cleaning that they could. They were able to open up a blockage in one of our main manhole laterals which caused a deluge of water which in turn prevented them from continuing to clean because they could not find the inlets. We told them that we would regroup and get you guys to come back out when the sumps are dry. Please call me to discuss when you get time.

Thanks,

-Andrew

**Andrew Hill**  
**Environmental Supervisor**  
**SRC Environmental Department**  
**Office: (850)-981-7135**  
**Cell: (850)-232-5304**

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# FLORIDA JETCLEAN

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## HIGH PRESSURE WATER JETTING – EXPLOSION PROOF INSPECTION PIPE LOCATING – VACUUM EXTRACTION – NO DIG REPAIRS

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7538 Dunbridge Drive  
Odessa, FL 33556  
www.floridajetclean.com

TEL : 800-226-8013  
FAX: 813-926-4616

### PROPOSAL

DATE : 4/21/2016  
TO : Andrew Hill – Santa Rosa County Solid Waste Management  
FROM : Ralph Calistri (floridajetclean@yahoo.com)  
SUBJECT : Santa Rosa County - Central Landfill - Milton FL - Gas Well Cleaning

Thank you for your inquiry. We confirm our capability and interest in performing the required gas well cleaning services for Santa Rosa County at the Central Landfill in Milton, FL.

**FLORIDA JETCLEAN** specializes in leachate collection system maintenance and inspection, and has developed a considerable amount of specific expertise in this field over the last 28+ years. Our company has worked at an extensive number of landfills in Florida, Georgia, the Carolinas, Delaware, and westward to Arkansas. We have worked with most engineering companies active in this field, and have also fostered excellent working relationships with the regulatory authorities. We use modified jetting equipment designed to achieve extended pipe distances found in landfill environments and our explosion proof camera equipment complies with all OSHA and regulatory mandates for methane environments. Substantial references are available on request.

#### Based on the information provided in your emails we propose as follows:

Provision for vacuum truck, high-pressure jetting-truck , and operators for flushing and removal of liquids and solids from existing 6" fully vertical HDPE gas wells at the Santa Rosa Landfill \$ 4,975.00 / day

3) Mob / Demob \$ 1,600.00

#### Subject to:

- An adequate on site water supply for jetcleaning equipment.
- No charge on site dumping of all liquids and solids loaded onto vacuum truck.
- 2 wheel drive vehicle access within 10'-15' of each vertical gas well to be cleaned.
- Day-rate covers up to 8 hours on site, including all drive time to/from work locations, water fill locations, and disposal locations.
- Payment: net 30 days

Regards,

Ralph Calistri

Ralph Calistri - Florida Jetclean - 800-226-8013