Council (persons to Address the Council); SPW (Ludwig oxidation pond); SPW (Wastewater Reg. - Hahnville Reg. Wastewater Treatment plant)

# PETITION TO ADDRESS THE COUNCIL

2004-0187

St. Charles Parish Council Chairman
P. O. Box 302
Hahnville, LA 70057
(985) 783-5000

Today's Date: 5/10/04

RECEIVED
MAY 10 2004
3:22p

Dear Chairman:

Please place my name to address the Council on:

DATE: May 17, 2004

SPECIFIC TOPIC: **one subject only** (*see specific guidelines on reverse and refer to Parish Charter– Article VII., Sec. I.)

Ludwig Oxidation Pond & the Re-routing of flows to the Hahnville WasteWater Treatment Plant (Continued)

DOCUMENTS, IF ANY: (YES) / NO

NAME: Gwen Dufrene

ADDRESS: 5557 Hwy. 306
Bayou Gauche LA 70030

PHONE: (985) 758-1570

SIGNATURE: Gwen Dufrene

Dear Constituent:

Thank you for your active participation. Your views and comments will be considered by the Council in making our decisions. The Council has a considerable amount of business to conduct in a limited amount of time, therefore, please note the following items that are expected of you:

- The Home Rule Charter provides for citizens to address the Council. It makes no provision for initiating debate, discussion, or question and answer sessions with Councilmembers or Administration Officials. Your right is also guaranteed to examine public documents as you prepare your presentation. Should you have any questions for Councilmembers and/or Department Heads as you prepare, please forward such inquiries to the Council Office to insure a timely response. Should you wish to speak to any Official or Department personally, a complete list of contact information will be furnished at your request.
- Please be brief and limit your comments to the specific subject matter on which you have requested to address the Council.
- Please forward supporting documents to the Council Secretary for distribution to the Parish Council before your scheduled appearance in order for the Council to prepare themselves, if necessary.
- Upon completion of your allotted time to address the Council, please respect the time given to Councilmembers to respond to your comments by not interrupting or interjecting remarks.
- **Slanderous remarks and comments will not be tolerated.** If slanderous remarks or comments are made, your opportunity to address the Council will end, regardless of the remaining time left to address the Council.
- Repetitious comments and subject matter will be strictly limited.

A confirmation letter will follow when your name is placed on the agenda.

Sincerely,

Lance Marino

LANCE MARINO
COUNCIL CHAIRMAN

(OVER)

2000-0284
INTRODUCED BY: ALBERT D. LAQUE, PARISH PRESIDENT
(DEPARTMENT OF PUBLIC WORKS/WASTEWATER)

ORDINANCE NO. 00-6-18

An ordinance to approve and authorize the execution of a Professional Services Agreement with Hartman Engineering, Inc. for necessary Consulting Engineering Services associated with Parish Project No. S000403, Force Main to Luling Oxidation Pond

WHEREAS, the St. Charles Parish Council desires to have the following described project designed and constructed to wit:

**DESCRIPTION**

**S000403 – St. Charles Parish Force Main to Luling Oxidation Pond**

WHEREAS, the opinion of probable project budget is as follows:

| | |
|---|---|
| Advertising, Recordation, etc. | $ |
| Construction | 500,000 |
| Site Acquisition | |
| Surveying Services | |
| Rights-of-Way Acquisition | |
| Permit Application | |
| Soils Testing | |
| Engineering Services | 50,000 |
| Project Representation | |
| Other Project Cost | |
| Contingency (10%) | |
| **TOTAL PROJECT BUDGET** | **$ 550,000** |

**THE ST. CHARLES PARISH COUNCIL HEREBY ORDAINS:**

**SECTION I.** That the attached Professional Services Agreement between Hartman Engineering, Inc. and the Parish of St. Charles is hereby approved.

**SECTION II.** That the Parish President is hereby authorized to execute the attached agreement on behalf of the Parish of St. Charles.

**SECTION III.** That the necessary funds for the total project budget in the amount of $ 550,000 be allocated to the above-described project and appropriated from the Public Improvement Sales Tax Construction Fund.

The foregoing Ordinance having been submitted to a vote, the vote thereon was as follows:

YEAS: RAMCHANDRAN, FAUCHEUX, HILAIRE, FABRE, ABADIE, AUTHEMENT, BLACK, MARINO
NAYS: NONE
ABSENT: MINNICH

And the Ordinance was declared adopted this 19th day of June 2000 to become effective five (5) days after publication in the Official Journal.

CHAIRMAN: [signature]
SECRETARY: [signature]
DLVD/PARISH PRESIDENT: June 20, 2000
APPROVED: ✓ DISAPPROVED:

PARISH PRESIDENT: [signature]
RETD/SECRETARY: June 20, 2000
AT: 4 P.M. RECD BY: [signature]

2000-0919

**INTRODUCED BY: ALBERT D. LAGUE, PARISH PRESIDENT (DEPARTMENT OF WASTEWATER)**

**ORDINANCE NO.** 00-7-7

An ordinance to approve and authorize the execution of a Contract for Engineering Services with Hartman Engineering, Inc. for Program Management Services for The Wastewater Regionalization Program.

**WHEREAS**, the Parish is in the process of constructing a 18 Million Dollar Wastewater Improvement Program; and,

**WHEREAS**, portions of the project are behind schedule due to construction delays as a result of utility conflicts, and DNR and USACE permitting problems and the resulting shutdowns of both Public Works and Wastewater projects; and,

**WHEREAS**, it is the desire of the Parish Council and the Parish President to expedite the completion of those projects as soon as possible with the assistance of Program Management Services.

**THE ST. CHARLES PARISH COUNCIL HEREBY ORDAINS:**

**SECTION I.** That the Contract for Wastewater Regionalization Program Management Services, attached hereto as Exhibit A, by and between Hartman Engineering, Inc and the Parish of St. Charles Parish is hereby approved.

**SECTION II** That the Parish President is hereby authorized to execute said contract on behalf of the Parish of St. Charles Parish.

The foregoing ordinance having been submitted to a vote, the vote thereon was as follows:

YEAS: FAUCHEUX, HILAIRE, FARRE, AEADIE, BLACK, MARINO

NAYS: RAMCHANDRAN, AUTHEMENT

ABSENT: MINNICH

And the ordinance was declared adopted this 10th day of July 2000, to become effective five (5) days after publication in the Official Journal.

CHAIRMAN: _____

SECRETARY: _____

DLVD/PARISH PRESIDENT: 7-12-00

APPROVED: _____ DISAPPROVED: _____

PARISH PRESIDENT: _____

RETD/SECRETARY: 7-13-00

AT: 10 AM RECD BY: _____

2000-0312
INTRODUC
ORDINAN

**ATTACHMENT A**

**HARTMAN ENGINEERING, INC.**

**BILLABLE HOURLY RATES**

**ST. CHARLES PARISH**
**WASTEWATER REGIONALIZATION PROGRAM MANAGEMENT SERVICES**

| | |
|---|---|
| Supervisor | $115.00 |
| Project Manager | $ 99.00 |
| Engineer | $ 93.00 |
| Pre-Professional (EIT) | $ 67.50 |
| Resident Project Representative (R.P.R.) | $ 50.00 |
| Overtime for R.P.R. | $ 63.50 |
| CADD Technician | $ 61.00 |
| Clerical | $ 45.00 |
| Survey Crew (3-Man) | $100.00 |
| Principal | $130.00 |

Non-Salary Employees

| | |
|---|---|
| Mileage | @ 0.32/Mile |

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2000-0332
INTRODUCED BY: ALBERT D. LAQUE, PARISH PRESIDENT
(DEPARTMENT OF WASTEWATER)
ORDINANCE NO. 00-7-14

An ordinance to approve and authorize the execution of a contract with Hebert Brothers Engineers, Inc. for the construction of the Bourg Pumping Station Rehabilitation in the amount of $143,100.00).

WHEREAS, sealed bids were received by the Parish on June 2, 2000, for the Bourg Pumping Station Rehabilitation; and,

WHEREAS, Environmental Engineering Services, Inc. Consulting Engineers for the Project, have reviewed the bids and recommend that the Contract be awarded to the low bidder, Hebert Brothers Engineers, Inc. in the amount of $143,100.00.

THE ST. CHARLES PARISH COUNCIL HEREBY ORDAINS:

**SECTION I.** That the bid of Hebert Brothers Engineers, Inc. for the construction of the Bourg Pumping Station Rehabilitation be and hereby accepted in the amount of $143,100.00.

**SECTION II.** That the Parish President is hereby authorized to execute the attached contract documents.

The foregoing ordinance having been submitted to a vote, the vote thereon was as follows:

YEAS: RAMCHANDRAN, FAUCHEUX, HILAIRE, ABADIE, AUTHEMENT, BLACK, MARINO, MINNICH
NAYS: NONE
ABSENT: FABRE

And the ordinance was declared adopted this 24th day of July, 2000, to become effective five (5) days after publication in the Official Journal.

CHAIRMAN: _____
SECRETARY: _____
DLVD/PARISH PRESIDENT: 7-25-00
APPROVED: _____ DISAPPROVED: _____

PARISH PRESIDENT: _____
RETD/SECRETARY: July 25, 2000
AT: 12:00 PM RECD BY: _____

ARTICLE 4. C
CONTRACT P
Contract price
parties.
ARTICLE 5.
CONTRACT
Conditions.
Condition s.
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# Hartman Engineering, Inc.

*Consulting Engineers*

August 28, 2000

Steven M. Fall, P.E., Director
Public Works and Wastewater
P.O. Box 705
Luling, Louisiana 70070

Subject: Luling Oxidation Pond

Dear Mr. Fall:

Hartman Engineering, Inc. (HEI) prepared a technical memorandum on the Luling Oxidation Pond (Pond) in May of 2000. In that report, HEI provided several recommendations to improve the operation of the Pond. You recently requested HEI to summarize the costs associated with the recommendations noted in the technical memorandum. These are provided below. An additional alternative, diverting the effluent from the current outfall to the Mississippi River, is also included.

**Recommended Items for Improvements/Upgrade**

| ITEM | | COST ESTIMATE |
|---|---|---|
| **Remove Water Hyacinths** | | |
| Physical Removal | $ | 15,000 |
| Improve Berm | $ | 7,000 |
| Landfilling | $ | 4,000 |
| Subtotal | $ | 26,000 |
| **Treatment Capacity Upgrade (3.0 MGD)** | $ | 370,000 |
| **Reduce Infiltration and Inflow (annual cost)** | $ | 300,000 |
| **Add Polymer to Sand Filter (annual cost)** | $ | 30,000 |
| **Security and Safety Controls** | | |
| Fence | $ | 20,000 |
| Emergency Gas Scrubber | $ | 350,000 |
| Subtotal | $ | 370,000 |
| **Contingency (20%)** | $ | 214,000 |
| **TOTAL** | $ | 1,286,000 |

The Department may wish to consider exploring ultraviolet disinfection at the Pond at some point in the future. The estimated cost for the system and a suitable contact basin is approximately $650,000, based on the bid price for the Destrehan Wastewater Treatment Plant. Having this system will negate the need for a chemical scrubber and will also eliminate annual chemical costs for chlorine and sulfur dioxide. HEI would be pleased to perform a detailed cost comparison between these two disinfection alternatives should you wish.

**Comparison of Effluent Discharge Alternatives**

| Wetlands Treatment | | River Discharge | |
|---|---|---|---|
| **Present Worth over 20 year life of project (use 4% for annual costs)** | | | |
| UAA | $120,000.00 ✓ | Engineering | $100,000.00 |
| Permit | $42,000.00 ✓ | Servitudes | $100,000.00 |
| Engineering | $42,000.00 ✓ | Construction | $2,250,000.00 |
| Annual Monitoring | $45,000.00 | O&M | $8,000.00 |
| Construction | $40,000.00 ✓ | | |
| O&M | $3,000.00 | | |
| **TOTAL** | **$896,334.40** | **TOTAL** | **$2,458,722.40** |
| **Annual Costs over 20 year life of project (use 7% for capital costs, 4% for costs<$200K)** | | | |
| **TOTAL** | **$65,958.40** | **TOTAL** | **$235,120.00** |

The "Recommend Items for Improvements/Upgrades" table shows a cost estimate of $1,283,000 to upgrade the performance and safety of the Pond. The second table, "Comparison of Effluent Discharge Alternatives," shows the cost to divert the effluent from the Pond to either the Mississippi River or to the adjacent wetlands. These improvements will lead to a more advantageous discharge permit for the Parish of at least a 30 mg/L BOD limit and a 30 mg/L TSS limit. Recall that the current limit for the Pond is 10 mg/L BOD and 15 mg/L TSS. With the implementation of the recommended improvements as well as the less stringent permit, the Parish should be able to remain in compliance with its LPDES permit.

The "Comparison of Effluent Discharge Alternatives" table shows that on a present worth and annual cost comparison, wetlands discharge is more advantageous than river discharge. Either alternative will have the same LPDES permit limit. However, it may be possible that discharges

to the wetlands may be even less stringent and could be as high as 30 mg/L BOD and 90 mg/L TSS.

As per your recent instructions, HEI, with the assistance of the Legal Department, is preparing contracts for the Use Attainability Analysis at the Pond for introduction at the next Council meeting if possible. This is the first step towards wastewater reuse at the Pond. The majority of this is field-work and will take approximately 12 months to complete. HEI is preparing a separate letter to the Environmental Protection Agency to inform them of the Parish's decision to reuse its wastewater at this facility as a method to achieve compliance.

Please contact me if you have any questions regarding the above or if you would like me to arrange a meeting to discuss the wetlands alternative.

Sincerely,

HARTMAN ENGINEERING, INC.

Robert J.T. Martin, P.E.

cc Sammy Accardo

# ST. CHARLES PARISH

## DEPARTMENT OF WASTEWATER

P.O. BOX 705 • LULING, LOUISIANA 70070
(504) 783-5100 • (504) 783-5102 • FAX (504) 785-6503

ALBERT D. LAQUE
PARISH PRESIDENT

STEVEN M. FALL, P.E.
DIRECTOR


September 6, 2000



VIA FACSIMILE
CERTIFIED MAIL



Ms. Sonia Cantu
Water Enforcement Branch (6EN-WC)
EPA Region 6
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202
214-665-2168

Subject: Luling Oxidation Pond and Ama Wastewater Treatment Plant
Docket No. CWA-6-0022-00, NPDES Permit No. LA 0032131
NPDES Permit No. LA 0080489

Dear Ms. Cantu,

At our last meeting in late July 2000, you requested that the Parish provide you with a clear direction on the method to be used to bring the Luling Oxidation Pond into compliance with the Clean Water Act. Two methods were generally discussed: 1) discharging the Pond effluent to the Mississippi River to take advantage of a higher permit limit, and 2) discharging to the adjacent wetlands under a wastewater reuse permit.

After reviewing the costs and advantages/disadvantages of both alternatives, the Parish has elected to obtain a wastewater reuse permit. Based on conversation with representatives of the Department of Environmental Quality, it is expected that this permit will increase the current discharge limits to at least 30 mg/L BOD and 30 mg/L TSS and will have the added benefit of improving the wetlands in the Parish. The Parish expects to sign a contract to begin the first step of the program, performing a use attainability analysis, in early October. The UAA is a 12-month intensive study of the wetlands habitat and forms the basis for the permit application.

The Parish is also taking steps to improve the Pond's operation in the interim. Two changes that should improve performance is the addition of polymer to the sand filter feed to improve filter's ability to remove solids. Also, the pre-chlorination point will be moved to provide better contact time prior to the sand filter. It is expected that this will provide a better kill of algal cells and

allow for better removal within the filter. As you may be aware, the inability of the sand filter to remove algae from the effluent has been a prime contributor in many of the Parish's previous violations.

Enclosed is an estimated completion schedule for your reference. Should you have any questions or comments regarding this correspondence, please feel free to contact me at my office.

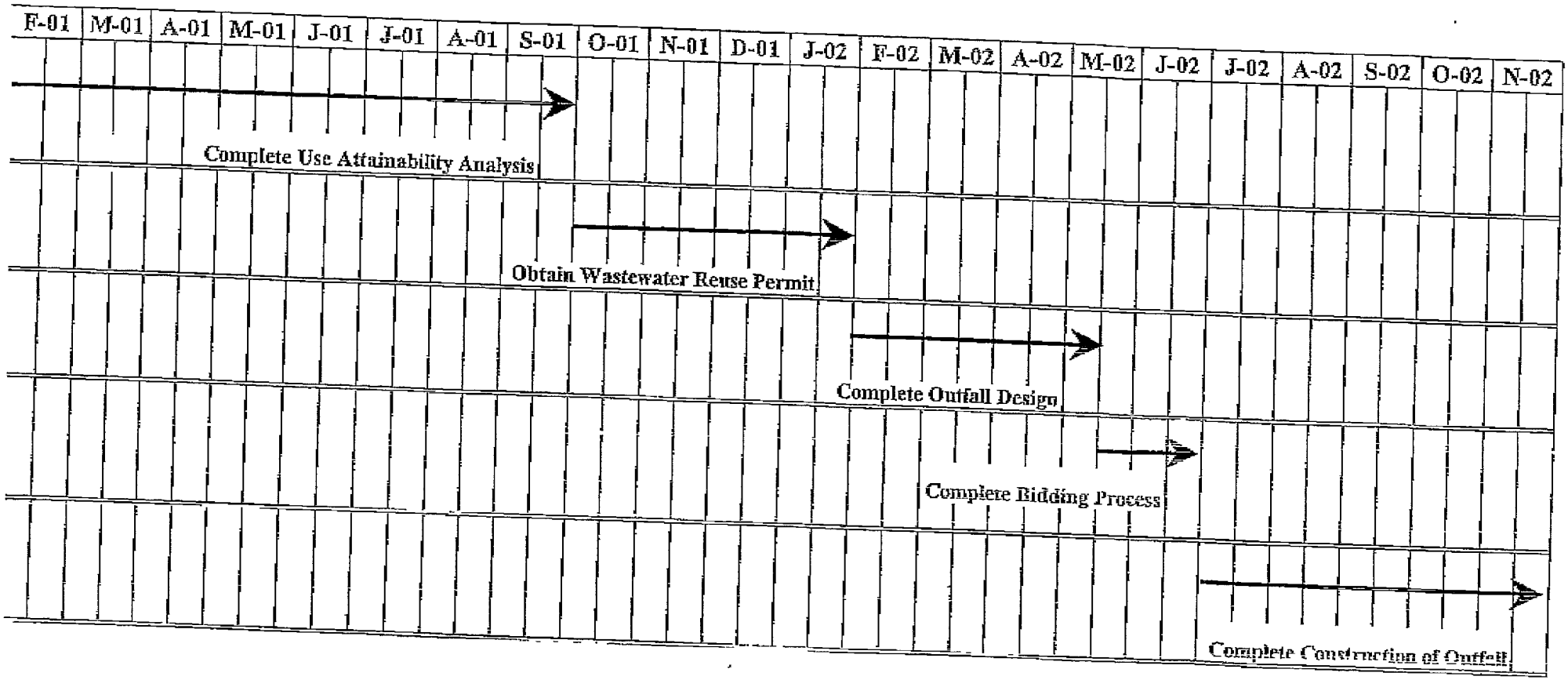
Sincerely,

Steven. M. Fall, P.E.
Director, Public Works/Wastewater

cc Albert Laque, Parish President
Samuel Coleman, P.E., Environmental Protection Agency
Kay Schwab, Environmental Protection Agency
Robert Raymond, Parish Attorney
Sammy Accardo, Assistant Director of Wastewater
Rob Martin, P.E., Hartman Engineering, Inc.
Dan Gerrity, P.E., Camp Dresser & McKee, Inc.

Wastewater Program Status
August 31, 2000

# Luling Oxidation Pond Compliance Schedule
## St. Charles Parish



# Hartman Engineering, Inc.

*Consulting Engineers*

September 12, 2000

Steven M. Fall, P.E., Director
Public Works and Wastewater
P.O. Box 705
Luling, Louisiana 70070

Subject: Luling Oxidation Pond Improvement Costs

Dear Mr. Fall:

Based on the Parish's decision to implement wastewater reuse at the Luling Oxidation Pond, Hartman Engineering, Inc. (HEI) has provided a revised estimate of the needed improvements at this facility that refines the estimates contained in HEI's letter of August 28, 2000. The following table provides cost estimates based on actual bid prices, comparisons with similar projects, and experience:

**Recommended Items for Improvements/Upgrade**

| TYPE | ITEM | | | COST ESTIMATE |
|---|---|---|---|---|
| | **Remove Water Hyacinths** | | | |
| | | Physical Removal | $ | 30,000 |
| | | Improve Berm | $ | 7,000 |
| | | Landfilling | $ | 4,000 |
| O&M | | **Subtotal** | $ | 41,000 |
| Capital | **Treatment Capacity Upgrade (3.0 MGD)** | | $ | 370,000 |
| Capital/Engineering | **Reduce Infiltration and Inflow (annual cost)** | | $ | 300,000 |
| O&M | **Add Polymer to Sand Filter (annual cost)** | | $ | 60,000 |
| | **Security and Safety Controls** | | | |
| | | Fence | $ | 20,000 |
| | | Emergency Gas Scrubber | $ | 350,000 |
| Capital/Engineering | | **Subtotal** | $ | 370,000 |
| | **Wastewater Reuse/Wetlands Treatment** | | | |
| Engineering | | Use Attainability Analysis | $ | 120,000 |
| Engineering | | Wetlands Permit/Outfall Design | $ | 84,000 |
| O&M | | Annual Monitoring | $ | 45,000 |
| Capital | | Construction | $ | 40,000 |
| O&M | | Additional Operating Expenses | $ | 3,000 |
| | | **Subtotal** | $ | 292,000 |
| | **Contingency (20%)** | | $ | 287,000 |
| | | **TOTAL** | $ | 1,720,000 |

In addition to these items, the Department has requested that HEI provide a comparison between the use of ultraviolet disinfection (UV) and chemical disinfection with chlorine removal by sulfur dioxide. This work is in progress and will be submitted under separate cover.

Of the items listed above, the items listed as "Remove Water Hyacinths," "Add Polymer to Sand Filter," "Security and Safety Controls," and "Wastewater Reuse/Wetlands Treatment" are high priority items. The removal of the hyacinths, addition of polymer, and wastewater reuse/wetlands treatment program are all needed to improve performance of the Pond and to have the Administrative Order (AO) lifted from this facility. Recall that the EPA intends to issue a new AO encompassing both the Pond and the Ama Wastewater Treatment Plant. It is likely that this new AO will have a compliance schedule as well as fines and penalties for non-compliance as seen with the Parish's Regionalization AO.

The water hyacinths in the Pond now cover 30 acres of the 55 acre available. While these do provide some limited treatment, they will die, with the change in the weather, in the next several months and sink to the bottom of the Pond. This will cause two detrimental impacts to the Pond. First, the degradation of this biomass will place an additional biochemical oxygen demand (BOD) load in the Pond; one which the Pond may not be able to meet and that will lead to probable violations of the Pond's restrictive discharge permit. The second impact is that the seeds left by these dying plants will spawn a new generation in the spring which will lead to an unending cycle of growth, death, and permit violations. Parish maintenance workers have already experienced the frustration caused by this aquatic weed since it has disabled several of the Pond's aerators thus further limiting the Pond's treatment capacity. Please note that every technical report prepared for the Parish on the Pond has recommended removal of the hyacinths.

The original sand filer design and filter operation manual noted that the Pond's sand filter would not be able to perform at design efficiency without the addition of polymer. This is because many of the solids contained in the Pond's discharge are too small, i.e. algae, to be filtered without the aid of polymers. Despite these facts, the Parish has never used polymer at the Pond. Addition of the polymer should improve filter efficiency and improve compliance with the Pond's ability to remove both BOD, nearly 20 percent of which is settleable, and total suspended solids (TSS) from the final effluent.

Wastewater Reuse/Wetlands Treatment is critical in allowing the Pond to comply with its discharge permit. Rather than providing improved treatment within the pond, this program will actually increase the Pond's permit limit to at least 30 mg/L BOD and 30 mg/L TSS. Currently the Pond operates under a 10 mg/L BOD and 15 mg/L TSS limit. If the Pond had a 30/30 effluent discharge permit today, only six (6) permit excursions would have occurred since December of 1998 as compared with 43 actual discharge violations which have occurred in that same time. Coupled with the above improvements, the Pond should be able to maintain compliance with its permit provided that flow is not significantly increased.

Furthermore, the Pond site currently houses twelve (12) one-ton cylinders of gaseous chlorine on site and two (2) one-ton cylinders of sulfur dioxide. There is an urgent need to protect the public welfare by both restricting access to the Pond site and by providing emergency chemical scrubbing in the event of an inadvertent chemical release. Should the Parish elect to use UV disinfection in lieu of chlorine, a chemical scrubber is obviously not need.

The infiltration/inflow control and treatment capacity upgrades noted in the above table are important additions that will minimize operation costs (electricity, wear and tear, etc.) and improve plant performance. However, though these are important steps in improving the reliability of the Pond, they are not of the same priority of those listed described in the preceding paragraphs.

Please contact me if you have any questions regarding the above or if you would like me to arrange a meeting to discuss the wetlands alternative.

Sincerely,

HARTMAN ENGINEERING, INC.

Robert J.T. Martin, P.E.

cc Sammy Accardo

**ST. CHARLES PARISH COUNCIL**
**CONSTRUCTION MANAGEMENT COMMITTEE**
**(Transcript of video) NOVEMBER 27, 2000**

**Ramchadran:** "Reuse of Bio-data. **Potential change in Old :Luling Service** area. I'm sorry.

**Steven Fall-Public Works/Wastewater Director.- " Yes Sir, I have Mr. Smith with Hartman Engineering here.** We have basically looked at the Bourg Station in Old Luling and there are some feasibility analysis that we would like to present with some options as for as re-directing flow in that area. We had budgeted some money to re-direct force mains and there are a number of lift stations and force mains in that area that has to be re-directed. The cost or the cheapest route would be to re-route Bourg into the new force main which then we could reverse on four additional lift stations. He has the details. I will let him go into it."

Mr. Smith (Hartman Engineers) "As Mr. Fall said. I'm Jim Smith and I'm with Harman Engineering. And what I just passed out to you are some attachments we made four our concept feasibility study. What we were originally asked to do was to . **The Parish had a contract for some improvements at the Bourg lift station that would increase the flow to look how that would handle all the way down to the Luling Oxidation Pond.** If you look at Exhibit "A" you can see the Bourg Station is at Paul Mallard and it pumps to a manhole. It's hard to read. That's located on Highway 90, running in front of the NAPPA Auto Parts store. From there it gravity flows to the Bank Lift Station on Murel. That's just across the street from the First American Bank. From that point, it then pumps through a fourteen inch force main down to Ellington Canal and following Ellington Canal all the way down to Mimosa Park where it then crosses about at Franklin Street. Comes down the Blouin Canal . Follows Blouin to Cousins. Follows Cousins down to the sewerage plant in Luling Oxidation pond. **It's kind of a long route to get all of that to the pond, and there's some problems existing there now with some old lines.** Um, the Faith Lift Station and the Primrose Lift Station. The Primrose Lift Station, when the subdivision was built, they knew what pressures and flows were in that 14 inch line and they sized their pumps according to pump in the line. When the Faith Lift Station was built, I think the flows and the amount of infiltration,

the lines changed. The pumps are not quite big enough to inject in the lines, so the residents experience some problems in heavy rains and when the Bank Station is running continuously. They have a hard time. The pump at the Faith Lift Station has a hard time injecting in the line, and people experience some sewer problems, commodes don't flush. They get some back in the street. So it's a problem. Um, what we looked at is the improvements at the Bourg Station would significally increase the flow through that force main. That just is a toppled dominos effect down the line. You improve the Bourg Station just like you mentioned. You're doing the upstream end when you really should be at the down stream end coming back. You have to do some work on the Bank Lift Station. Uh, we looked at if you see, uh Exhibit B we made some, best case-worst case scenario to say if the force main is adequate coming out of the Bourg Station. You take it to Bank Lift Station. Then take the Bank Lift Station with a new force main to the Primrose. That one was built with a wet well large enough to take the flow. Then take it and see if possible from the Army Corps of Engineers come down Blouin Canal. Go to Luling Oxidation Pond. You cut a lot of force main lines out and do away with some of the AC line. You have a best case and worst case scenario, depending on condition of pumps, sizes of pumps and force mains. **Best case about $1.1-1.2 million. Worst case $2.2 million, because you're starting at the upstream end.** You have to fix everything down stream. In the discussions we talked about and looked at with Mr. Fall what if we're directed the Bourg flow and took it to the Hahnville Plant. If you look at Exhibit C, there are many routes that you can take to get to the interceptor line coming from the Paradis Lift Station. This is just an example you can, w took at permitting, land availability, and everything else. **But, if you brought the uh force main down and put a lift station about where I show right now, again that would depend on permitting, land availability. But you can, put it anywhere in that 3127 corridor. You would put a lift station in to handle the flow at the present time, but you would design it so it could be built in phases, as the demand increased. Over time you could add pumps or do whatever you needed to do as the flow increased. The benefits of this are like Mr. Fall said the cost of this is about the best case scenario for the improvement of the force main going to the Luling Oxidation Pond, about$1.2 million. A major benefit from this is you're taking a lot of the flow out of the Luling Oxidation Pond. The Pond right now has some problems meeting its discharge requirements, requiring a lot of maintenance work, and some construction work and**

**improvements to the Pond. If you took this major flow, the Old Luling area away, you would immediately reduce the total loading in the Pond, Which the Pond then would have a better chance of meeting its requirements. You could also re-direct some of the flow from the Bank Lift Station and Primrose and then take that to the Bourg Station and then pump it up the force main to the Hahnville Plant which has got much better treatment system than the Old Pond does.** Um, that's the major benefit to this area. You're relieving some of the loading to the pond and directing it to a new plant. **Some other advantages to this system you're now providing a place along 3127 for future development, both residential and commercial. You know whatever somebody would want to build there along, a business or residential development, such as Ashton"s coming along. People applying for permits. So those are the advantages we see in redirecting the flow from the Bourg Station to the Hahnville Treatment Plant.** I'd be glad to answer any question. Please, this is a preliminary study. Our numbers are very rough and we're still looking at alternative routes. But, I would be glad to answer questions anybody has."

**Councilwoman Abadie-** " So, Mr. Smith, what is the negative of going 3127, if there is one. Is this DOTD property there."

**Mr. Smith-**"Well you can work with, Yes it is DOTD. You have to get their permits required to cross underneath their roadway, but jack and bore, or open cut in some areas. But DOTD is in my experience. They're very friendly when it comes to force main. I mean they have regulations and you have to follow them, but usually they will work with you."

**Abadie-**"But, I mean you're relieving Luling Pond. It is a shorter route and its a better plant that you're going to.

**Mr. Smith-**" Yes, that's correct. The only draw back is that there are some thing route that Faith Lift Station and even that Old AC line, but you will still have to do eventually, but you can , maybe some piping changes. Primrose, Yah you take Primrose, some piping changes and pump it back to the Bourg Station. But you get that advantage. We're handling all this treatment at Hahnville. Lets take some more of the older system along U. S. 90 and pump it to Hahnville and take that load out of the Luling Oxidation Pond.

**Abadie**-" Are there any grants that would be available to do something like this.

**Smith**-" Mr. Fall would know more about that at this time."

**Abadie**-"I don't see a problem.

**Ramchandran**-" **Well its a good concept, only problem is the original regionalization was based on 75,000 population somehow maintaining the Luling Oxidation Pond. If you're going to redirect existing things into the regional plan for next 25 years our growth will not be addressed. I may fill up in 5 years. That's the only problem.** Anyway there's a report is any of you are interested. **It's in the library and please go though the study why we need this.** It's very interesting. Its an eye opener. Thank you Mr. Smith.

**Ram**-"Snookie.

**Faucheux**-" I do have a question. I really. Yeah, this concept actually, from looking at this and some of the things you're saying, what you could actually do is have a oscillating effect in between the Boug Lift Station and the Primrose. Ah, changing basically

Mr. Smith: "If you're going to change the flow back and forth you're getting very expensive with your equipment, your maintenance, and to men. You don't want then one guy to go to the Bourg Station and shut it down and have one guy go to the Primrose and shut it down and you got nothing running. So, you're getting overly complicated for a sewer. If you're going to try to shuffle both ways I just don't think you have, you can adjust at the Hahnville Plant. You can adjust the flows there and treat it. **The Luling Oxidation Pond its so touchy you just got to take what you get.**

Faucheux:" I understand that, but by looking at this, I mean, if we had a major flood situation where we're having a lot of infiltration that we did not want to send to the Hahnville Treatment Pond, Hahnville Treatment Plant, that we

may want to , may want to send to the pond. For a short term situation, we can re-direct these lift stations to go.

**Mr. Smith**: 'That maybe possible. I'm just pointing out that your initial construction will cost more to allow you to do that.

**Ram**: "Thank you Mr. Smith.

**TRANSCRIBED**
**FROM ST. CHARLES**
**OPERATIONS, MAINTENANCE AND**
**CONSTRUCTION MANAGEMENT COMMITTEE MEETING**
**NOVEMBER 27, 2000**
**CAPITAL PROJECT PORTION (on the video)**
**Later in the meeting. When Mr. Rob Martin**
**(man in the black suit) sits in the chair at the end of the table.**

## CAPITAL PROJECTS STATUS REPORT

Mr. Rob Martin, Program Management (Hartman Engineers): " **We continue to work on our most difficult problem on West I-310 Control of access. We had some very positive results from that, but bottom line we still don't have a permit. We're working very closely with the Parish Attorney (Bobby Raymond), and with our legislators and we hope to have a permit soon. But I can't give you a time when. We also worked closely with EPA, their extension, their in-house extension was November 30th, for our Administrative Order. that's just a couple days away. I've been in contact with Kaye Schwab and provide her a update which is attached to the report I passed out earlier. Ah, she told me and these are her words, that she's comfortable with our progress. Ah, she is concerned about the I-310 situation, but ah, as long as we keep her informed, she is not going to recommend, any further action, or any enforcement action, because she has to take a positive step at this point. And that positive step is to be no enforcement action at this time. Ah, with regard to the Luling Oxidation Pond, that Administrative Order, ah, she also opened the door for some relief on the Parish and with that as well and some things we can do to respond, um, to get some of the**

**limitations of that AO off our back.** Also, on the West Bank the Bayou Gauche to Paradis to Hahnvile force main project , ah, the effluent line which will allow us to decommission the Killona Plant, is nearing completion. There's one more servitude left to obtain in there. If you remember, there's some route changes that caused us to go back and get more servitudes. We expect to have that in the next week to ten days and we expect , we hope to have the force main installed in mid to late December and that would allow us to take off the Killona Plant and just leave Paradis and Bayou Gauche at the end. And That's why one of the main reasons why EPA is taking a soft, I would say soft stance with the Parish. Because we have taken major plants off line. **As you know, the Luling Use Attainability Analysis is getting ready to , to kickoff. You all just approved that at your last meeting and we're working very closely on that one. Of note, which ties into, to Mr. Smith's presentation earlier, The Parish has elected to cancel and terminate the Bourg construction contract. Mainly because, if we sink money into the Bourg wet well and expansion, and new pumps and the like. We run into problems with these additional alternatives. We're talking about removing some of the flow from the Old Luling Area to Hahnville, so we like to terminate that contract at this time. We realize, in the future, some work will have to be done there, but the scope depth, breathe of that is still to be determined. Any questions?**

**Mr. Ram: " Yeah, that, um, Bourg contract is about $143,000. This new proposal is about $2.2 Million, if I'm. if I heard him right."**

**Mr. Steven Fall**: "This new proposal, that Mr. Martin talked about included a intermediate station, as well. So, its a much more substantial, um undertaking that the rehabilitation of the Bourg station you see in your handout sir."

**Mr. Ram: "So we are not going to have a negative impact not proceeding on the Bourg station? Giving up at this, at this state, because the completed engineering is almost been done for the contract for that."**

**Mr. Martin "The engineering services at some cost. Absolutely. I believe that was a $20,000 contract wit EES. Ah, there may be some additional money due to the contractor. Ah, we will have to work those details out. I don't know the numbers though, right now**

**Mr. Ram**: " Anybody has questions?"

**Ms. Abadie**: "Ram, So you , this I-310 is still a problem?"

**Martin:** "Yes, mam."

**Ms. Abadie**: **"And had DOTD actually turned you down once. Had you been turned down?"**

**Mr. Martin**: **"We were turned down. Um I'm not able to tell you all the good news because there is some very good news. And I hope you can read between the lines. But, because the negotiations are very close, and we have been given some assurances at some very high levels, ah I don't want to the one to spill the beans, as it were. But we're very confident that we will get the permit. Its really just a matter of when we'll get it. Their, their schedule is little, not as crucial as our schedule, as we're hoping to get them to um to increase the speed at which they'll accelerate that permit to us."**

**Ms. Abadie**: "That's what I was gonna ask next, that if you don't see a end in the too near future, what is this gonna do overall. You know what, how much will this cost us in delays."

**Mr. Martin**: "It will. It will have an impact. Right now we have been fortunate. If you remember that last change order with that. **With Fleming Construction, one of the reasons we choose to move them around to the affluent force main into different things. It kept them working longer and we were able to keep their contract on the books opened longer. So when I'10 did come open , that contract would be there and ready to move. I would recommend though, that if the time came and we didn't have that I-10 permit and Fleming Construction was finished in with their work, that the best thing to do would be to terminate that contract. We wouldn't look at any delay damages."**

**Ms. Abadie**: "That's what I was thinking, why you got this guy idle, waiting."

**Mr. Martin**: "No mam, we would not want to put the Parish in that situation."

**Ms. Abadie**: "So you think its close?"

**Mr. Martin**: "Yes, mam I do."

**Mr. Ramchandran**: "Okay, is there any question for Mr. Rob? Seeing none, next. You have a question? Go ahead."

**Mr. Faucheaux**: "Yeah, Rob one thing right quick. Just to the, ah changes Hartman was talking about." Um, the new re-route for the Bourg lift station, uh wasn't that reducing it, us to like $1.1 something million versus the 2.2"

**Mr. Smith**: "2.2 was the worst case . the going all the way to the pond.

**Mr. Faucheux**: "Going all the way to the pond, right."

**Mr. Smith**: "About $1.2, $1.3, if you"

**Mr. Faucheux**: "Taken the shorter route to the Hahnville Affluent."

**Mr. Smith**: "We're estimating, we had $200,000 in that number for improvements for the Bourg station. So, like Rob said we were including some improvements at Bourg station in that number. Like I said that's a preliminary number."

**Mr. Faucheux**: "Okay, that's what I thought. Thank you."

**Mr. Martin**: "Snookie, just let me amplify on that. The Bourg contract that went out, the EES deciding that was an upgrade for that station. That would have required other stations to be modified, down the line. As we move that water down. "So, that's another reason to terminate the contract now and look for a better route."

**Mr. Faucheux**: "So, if we went the shorter way, then what, then what you're in essence are saying, if we went our actual savings would be substantially

more cause we would not have to improve the lift stations as went down the line, down to the Luling Oxidation Pond."

**Mr. Martin**: "**You would avoid that cost, whether or its a net savings or a next cost. I couldn't say at this time, but those improvements at additional stations, down the line from Bourg would be avoided costs. You wouldn't have to deal with them, but in turn in avoiding those costs, you now have a force main and additional lift stations as well as where the dollars fall out on that, I'm not sure myself. And I think they're still being evaluated by Hartman in the study. Ah, but I can't say if its a net cost or a net benefit. Yes, sir.**"

**Mr. Faucheux**: "But, we should be getting, if I'm understanding what you're saying, and if we discontinue the Bourg contract, which is about $143,000 or $150,000. We have a $1.2 million overall on the contract which includes the changes of the modifications to the Bourg Lift Station. And subtracting the lift stations down the line, that we would not need to repair. Then we're actually transferring the um, the overall, uh, capital projects to those lift stations by changing that route. So, we're getting closer to some type of reduction. Should I say in the $1.2 million that we're actually looking at for that project."

**Mr. Martin**: "It could be. And I think you're really asking for a yes or now answer and"

**Mr. Faucheux**;" Expand on it."

**Mr. Martin**: "**It seems, let me say, no ones really looked at the costs to upgrade the Bank, the Primrose, all those other station. What those cost would be. So, for me to say that you wold save several hundred thousand dollars, I just don't know.**"

**Mr. Faucheux**: "I'm not saying save. But what I'm saying is we're looking a capital expansion. Um putting, this new affluent line in 1.2 million. But I'm trying to put in terms of it will absorb the cost of the Bourg Lift Station.

And its also gonna absorb the cost that we won't have for the lift stations down the line."

**Mr. Martin**: "So, therefore it looks even more promising to do this versus spending money in the other direction."

**Mr. Martin:** "I would absolutely agree with you. And I want to throw out another beneficial plug there. **You take that flow off the Luling Oxidation Pond. It really does help you quite a bit with your Administrative Order. And you could possibly replace that flow with the Ama Lift Station and decommission the Ama Wastewater treatment Plant. And that could be one step closer to getting to what you have to do to get that part of your administrative Order resolved. Because the Ama station is on line, but we can't use that station to go to the Luling Oxidation because of some restrictions in out actual wetland permits, we were not. <u>So that's another benefit</u> from taking that Bourg flow from the Luling Oxidation Pond."**

**Mr. Ramchandran**: " Okay. Thank you. Steven:"

**Mr. Fall**: "Ah, I've talked to our maintenance people about the Bourg Station and the flows have decreased since we filled in the ditch along Paul Mallard Road with pipe. Because all of the manholes that were sitting in the ditch, you could still see the ones where the ditch hasn't been filled. But basically when the water would come up in the ditch, if the manholes were cracked or broken, were basically draining the drainage system into the sewer system. Ah that location and, since we filled in a portion of that section of the ditch on that side of the highway, we're having less infiltration problems at Bourg. We still need to get that lift station repaired. Ah I believe, what was happening was an illegal overflow that was coming out of one of the manholes into the canal there, where we recently, next to the Fire Station. And I believe, that was valved off. So, That can't happen anymore. But the amount of water that was entering the system has been significally reduced. And I think routing as much flow away from the pond as possible. Because currently we can't, under the A. O., we can not add any new flow to the pond, until such time as we correct the deficiencies in the affluent. So, I think this is the best way for an overall solution for that area. It's also the cheapest."