CHESTER COUNTY SOLID WASTE AUTHORITY

Work Session — Lanchester

March 19, 2009

1. **Call to Order:** Bob Schoenberger, Chairman, called the March 19, 2009 *Work Session* Meeting of the Chester County Solid Waste Authority to order at 5:30 p.m.

Authority Members Present	*Authority Members Absent*
Bob Schoenberger	Ramsey G. DiLibero
Peter Knipe	
Dante W. Renzulli, Jr. Esquire	
Peter Marroletti	
William H. Shirk	
Vince Carosella	

Management and Staff Present	*Solicitor*
Robert A. Watts	Vincent M. Pompo, Esquire
Jerald A. Myer	
James M. Gorney	
Gary A. Laird	
Owen R. Esterly	
Teresa A. Devine	
Nancy Fromnick	

2. **Meeting Minutes.** Mr. Schoenberger said that the minutes of the February 19, 2009 *Combined Session Meeting* was in the Board Book for approval at next week's Regular Meeting.

3. **Chairman's Announcements.**

The Chairman had no announcements.

4. **Executive Director's Report.**

A. Monthly Activity Report: Mr. Watts said he would first like to bring the Board up to date on an item that is not on the agenda. Mr. Watts said employees of Granger Energy noticed just before lunch on Monday that there was smoke coming out of the ground near gas well EW-312. This well has had its valve closed for about a year because its pipe broke off underground and there was no gas to collect. It was not replaced because wells in the area seemed to be collecting all the gas from this area.

We contacted Al Roman of Roman Consulting because we knew he had helped extinguish landfill fires in a nearby landfill recently. The method Mr. Roman suggested did not work Monday afternoon so we planned to dig the fire out with our equipment on Tuesday and asked Caernarvon Fire Company to help us control the fire. It was determined by the end of the day Tuesday that we needed bigger equipment and we would rent it from a local contractor and try again on Wednesday. We excavated approximately 750 cubic yards of waste on Wednesday afternoon and another 850 cubic yards on Thursday morning. We trucked the waste to the top of the Area C Landfill where we wetted it before placing it into the landfill. We talked Thursday afternoon with a professor that has some experience with landfill fires and he suggested we gather more data from nearby wells before completing more excavation. We plan to borrow an instrument for gathering data on Friday.

Mr. Watts said we recently received PADEP approval to use landfill cell D-2 and the new leachate storage tank. We received a letter from Caernarvon Township's Zoning Officer that we need to update our Special Exception due to the increase in size of Pond 1 required with the Area E Landfill expansion. Mr. Watts said there has been some recent interest in recycling construction and demolition debris material. Mr. Watts said he will develop a request for proposal and see if any firm is a better fit to our operations than our current vendor. Mr. Watts said an agreement was signed today to rent a third house that we own. We have also listed the property on 945 Churchtown Road for sale with a local broker.

B. Senior Staff Meeting Memo's: Mr. Watts said the Board members could read the Senior Staff Meeting Minutes contained in Section 4B at their leisure.

C. Newspaper Articles: Mr. Watts said this section contained recent articles on citizens concerns about the new township building in Honey Brook Township. This section also includes an article on new waste to energy plants being proposed in Frederick County Maryland. There were also two articles on the financial troubles of the Harrisburg waste to energy plant. Lancaster County has been taking ash from Harrisburg's landfill for daily cover, but starting tomorrow we will receive our first loads to evaluate for daily cover.

D. PADEP Press Releases: Mr. Watts said this section contains a copy of two recent press releases. The first release was concerning a fine given to a Chester County cabinet maker for air violations and the second was confirming that tests show air around schools in PA to be safe.

E. SRBC Settlement Agreement: Mr. Watts said this section contains a copy of a draft agreement sent to us by SRBC and a second draft recommended by Mr. Pompo.

F. Legislation: The first page in this section was a summary Mr. Watts put together of four bills in the PA House and three in the Senate that are related to recycling or waste disposal. Mr. Watts said none of these bills seem to be moving at this time. The second item in this section was a copy of an email from SWANA concerning a proposed rule by the USEPA on greenhouse gas reporting. The last item in this section was another email from SWANA indicating the Federal Stimulus Bill has some tax credits that some landfills might be able to take advantage of and also some energy efficiency grants.

G. Records Retention Policy & Open Records: Mr. Watts said this section contains two state policy updates from our Solicitor.

H. Thank You Letter: This section contains a copy of a thank you letter from the Coatesville Area Public Library for our recent donation. There is also a thank you letter from the City of Coatesville for free disposal of waste from their Clean Up Day.

I. Communications With Waste Management: This section contained a copy of an email Mr. Watts sent to a Waste Management Compliance Officer concerning their compliance with Chester County's Solid Waste Management Plan. This section also contains their response to Mr. Watts' email.

J. Granger Energy Second Amendment: This section contains a copy of Granger Energy's latest version of the proposed amendment. We are expecting a revised version next week.

5. Operations/Site Development Report:

A. Monthly Activity Report: The following is the report for Operations/Site Development.

Landfill Gas Collection/Odor Control
Mr. Myer reported the gas flow average is approximately 3000 SCFM but is currently down to about 2800 SCFM due to a few wells being shut down in the area of EW 312.

Weather
We received 0.21" of rainfall in the month of February. Two days during the month we had 50 - 60 MPH winds for most of the day.

Compost Site
We are accepting leaves, skids, and vegetative wood waste. We also cleaned up trash, paper and metal delivered in wood waste loads.

Miscellaneous Site Work
Page 2 has a partial list of the routine work for the month. Due to the high winds some of the temporary rain cap and ballast in Cell D-2 had to be pulled back into place.

Man-Hours

Page 3 shows how the man hours were spent for the month.

Equipment and Current Events

The landfill closed at 1:00 PM on February 12, 2009 due to high winds. There were gusts over 50 MPH.

Cleveland Brothers has completed the installation of the new engine in the 836G compactor and it is running fine.

A biologist from the Wildlife Council was on site Thursday February 19th to tour the site. We expect to receive recommendations in a few weeks to how we can enhance the habitat for wildlife.

6. Facility Engineer's Report:

A. Monthly Activity Report: The Monthly Engineer's Report for March 2009 was presented to the Board.

The Leachate Tank Replacement work is still in progress.

The Cell D3 Landfill Gas System Expansion has been deferred until an updated agreement is reached with Granger Energy.

Various surveys were performed by Ludgate Engineering Corporation during this report period including: 279 Boot Jack Road; 59 Zook Lane; topography for the proposed flare station relocation; and a landfill volume survey.

Preparation of a Minor Permit Modification for the relocation of the existing landfill gas flare station was initiated during this period. A modification to the air quality permit is not required.

Preparation of a Request for Determination concerning the existing pond located on the 279 Boot Jack Road property was initiated during this period. The pond may be considered a regulated waterway and the embankment may be considered a regulated dam.

B. Geosyntec Consultants – Status Report: The March 19, 2009 Project Status Report from Geosyntec Consultants was presented to the Board. Geosyntec reports several out of scope tasks have been required including: investigations for Indian Bat and Bog Turtle species; PADEP's decision to limit permit capacity to ten years; the June 2008 modifications to Caernarvon Township's Storm Water Management Ordinance; and an equivalency demonstration concerning the interior slopes of the new reinforced soil wall. Geosyntec indicates that a request for additional compensation will be submitted in the near future.

C. ARM – Status Report: The March 16, 2009 Status Report from the ARM Group Inc. was presented to the Board.

D. Keystone Engineering Group – Status Report: The March 17, 2009 Progress Report from Keystone Engineering Group, Inc. was presented to the Board. Construction photographs of the work were attached.

E. Leachate Replacement Tank (T-101) Approval Letter: The letter from the PADEP dated March 3, 2009 approving the use of the new leachate storage tank (T-101) was presented to the Board.

F. Cell D2 – Approval Letter: The letter from the PADEP dated March 3, 2009 approving the approving waste placement in Area D Cell 2 was presented to the Board.

7. Water Management's Report:

A. Monthly Activity Report: The following is the report for Water Management.

FEBRUARY HIGHLIGHTS:

- February 2009 landfill leachate 271,129 gallons (includes gas condensate)

Leachate by area breakdown:

Area C	112,798 gallons
Area B	50,115 gallons
Area D-1	74,000 gallons
Area D-3	19,544 gallons
Granger gas condensate	14,672 gallons

Year to date landfill leachate 623,556 gallons

- February 2008 landfill leachate 751,609 gallons
- February 2009 Rainfall 0.60"

LEACHATE INVENTORY UPDATE: (As of March 1, 2009)

T-101 Leachate Storage Tank	- 0 gallons	capacity – 0 gallons
T-115 Leachate Storage Tank	- 90,000 gallons	capacity – 650,000 gallons
T-100 Equalization Tank	- 80,000 gallons	capacity – 110,000 gallons
Total Leachate Inventory	- 170,000 gallons	capacity – 760,000 gallons

Total percent of storage utilized - 22%

LEACHATE COLLECTION SYSTEMS –

The Leachate collection system is 100% operational.

RECIRCULATION SYSTEM

- 120,429 gallons was recirculated during the month of February 2009. Recirculation for the month of February was into the leachate Trenches.

Recirculation to date: 3/1/2009

Trench #	Recirculated (gal)	Maximum (gal)	
A	---------	----------	This Trench is closed
B	290,402	313,236	
C	1,254,235	1,888,720	
D	1,162,803	1,783,398	
E	1,336,917	2,631,930	
F	2,700,591	3,682,875	
G	2,858,093	5,066,750	
H	1,040,838	5,687,500	
Total	**11,455,005 (gal)**	**21,681,836 (gal)**	

Remaining Trench Capacity – 10,226,831 gallons

Blanket #	Recirculated (gal)	Maximum gallons/year
1	32,340	1,250,000
2	36,725	1,250,000
3	30,962	1,250,000
4	0	1,250,000
Total	**100,027 (gal)**	**5,000,000 (gal)**

UFRO Research and Development

Water operations has been involved with investigations to determine the best and most effective means to increase the throughput of the Ultra Filtration Skid and achieve the design flow of 17.5 gpm. The eventual solution of the UF throughput will allow the Reverse Osmosis Skid to operate at its design flow of 10.6 gpm or 15,000 gpd. This design condition will be 5 times the current production rate and will lower the coast per processed gallon considerably. This will also be major progress towards Lanchester's future onsite management of all generated leachate.

The following is the initial leg work moving towards a solution.

- Pre treatment options are being reviewed. Discussions are under way to determine if the best filter media is being utilized.

- Meetings with Greg Ares from Tate Engineering Systems Inc. discussing filter media. Tate is a supplier of such media.

    1. Pre treatment Filter Paper

    2. UF Filter Bag

The major discussion concerning filter media is being focused on two areas, pore size and surface area. We will be conducting in situ testing of different filter media, primarily multiple layer media.

- Ultra Filtration Membranes as applied to leachate filtration.
- Are we using the right membrane?

A leachate sample has been sent to Archie Ross with Dynatec Systems Inc. so a bench test can be run using a different type of UF membrane. We will be exploring the use of Hollow Tube UF Membranes because of their ability to better handle solids and the type of bacteria in landfill leachate.

LEACHATE TREATMENT PLANT (UFRO SYSTEM)

- The UFRO Treatment System is currently operational and is performing well. The UF system is operating at an average of 6.0 gpm and the RO system is operating at an average flow rate of 8.7 gpm. The plant is averaging approximately **1,961 gpd** for the month of February 09.

- The RO unit produced – **54,920** gallons of permeate during the month of February 2009

MONTHY COST ESTIMATE	$4,106.92	
Monthly Depreciation		$8,294.27
Monthly Electric	$1,395.00	
Total	**$5,501.92**	
Cost Per Gallon	**$0.10**	**$0.25**

GROUND WATER INVENTORY UPDATE: 3/1/2009

Ground Water Storage Pond – 682,825 gallons 85 % of capacity

Total Ground Water received for February 2008 – 110,771 gallons

NPDES PERMIT COMPLIANCE –

NPDES PERMIT DMR PA 0082791 for Outfall 001 CONESTOGA RIVER dated December 2003 – The NPDES DMR Outfall 001, 100 and Outfall 101 for February 2009 will report full compliance with 2003 NPDES Permit. All Monitored Parameters were below required discharge limits.
38,900 gallons from the effluent equalization tank (Outfall 100) of treated permeate and 0 gallons of groundwater (Outfall 101) was discharged to (Outfall 001). A total of 38,900 gallons was discharged to the Conestoga River during February 2009.

8. Compliance Officer's Report:

A. Monthly Activity Report: Ms. Devine mentioned that the annual groundwater report is being prepared by Golder Associates quarterly groundwater monitoring continues. Ms. Devine stated that a Title V permit renewal was issued by the DEP on February 27, 2009, and is effective until March 31, 2014. Ms. Devine also mentioned that the Authority received a Notice of Violation of the Title V Permit on March 4, 2009. The violation was issued because in December the flare was operate for a period of 32 hours at a temperature lower than what was required in the permit. Discussion about the NOV ensued. Ms. Devine also mentioned there were four radiation alarms since the last meeting. The driver was the source of one alarm, one was household trash from West Chester and the other two were sludge loads from North Coventry Municipal Authority. The waste loads were landfilled. Ms. Devine also discussed a recent "Statement of Basis" that was received from the EPA in regards to removing the Lanchester Landfill from EPA's Corrective Action list. The facility was originally included to the EPA Corrective Action Program due to the closed hazardous waste landfill on the property. Future monitoring will fall under the DEP operating permit for the municipal landfill and the post closure permit for the closed hazardous waste landfill.

9. Recycling Coordinator's Report:

A. Monthly Activity Report: Ms. Fromnick provided a list of the meetings and events attended during the past month.

B. Correspondence: In: Ms. Fromnick announced the receipt of a $58,798.24 grant reimbursement for the 2008 HHW Program. The check was forwarded to the County to be disbursed to municipal participants. The new three-year DEP $100,000 per year HHW matching funds commitment letter was also received.
Out: An updated brochure listing the 45 municipalities that require recycling was provided and the HHW Intergovernmental Agreement was forwarded for Commissioners signatures.

C. Projects: Ms. Fromnick highlighted a few of the projects listed: work continues on the 2008 Recycling Report, Certified Master Composting classes have begun, and the electronics/shredding event is scheduled for May 9 between the hours of 9 and 2. Work continues on the development of a new P & M Contract, a new HHW Contract, 2 potential composting sites and the planning and coordination of the 2009 HHW events.

9. Business Manager's Report.

A. February 2009 Monthly Tonnage Report: Mr. Gorney presented the Tonnage Report for February 2009, indicating that the tonnage of 19,224.87 was 5.3% under budget, and was 10.1% lower than February 2009.

B. February 2009 Accounts Receivable: Mr. Gorney stated that receivables day sales outstanding decreased from 33.16 days in January 2007 to 32.24 days in February 2009. Mr. Gorney stated that the decrease was due to higher payments from several large accounts.

C. February 2009 Financial Statement: Mr. Gorney presented the Financials for February 2009 stating that we had a gain of $134,289 for the month. Retained Earnings are at $36,644,057. The funds invested totaled $30,406,881.44 at month end. The interest earned in February 2009 was at a rate of 2.28% down from the 2.59% in January 2009. The rate decreased due to the rollover of funds to lower interest rates.

D. February 2009 Vendor Check Register Report: The Vendor Check Register was presented to the Board. The checks for February 2009 totaled $812,402.82.

E. Large Dollar Check Approvals: Mr. Gorney presented the March 2009 Large Dollar invoices totaling $203,054.95 consisting of the attached schedule 10E. Mr. Renzulli made a motion to accept the Large Dollar Invoices as presented; Mr. Carosella seconded the motion. The motion was carried by a unanimous vote.

F. Closure/Post-Closure PADEP Filing: Mr. Gorney stated that the revised Closure/Post Closure PADEP Filing will be sent to the state for review and acceptance.

G. Investment Policy – 1st Draft: Mr. Gorney presented the first draft policy and the
PMAA section #5611 – Investment of Authority Funds for the Boards review and direction. Action was deferred for further refinement of the policy.

H. 2008 Annual Audit Report: The 2008 Annual Audit Report was presented to the Board by Christina Chepel Partner at KPMG. . Mr. Marroletti made a motion to accept the 2008 Annual Audit Report as presented; Mr. Knipe seconded the motion. The motion was carried by a unanimous vote.

There being no further business, the meeting was adjourned at 7:39 p.m.

Prepared by,

Peggy A. Cunius