

CHESTER COUNTY SOLID WASTE AUTHORITY

Work Session — Lanchester

August 20, 2009

1. **Call to Order:** Bob Schoenberger, Chairman, called the August 20, 2009 *Work Session Meeting* of the Chester County Solid Waste Authority to order at 5:30 p.m.

Authority Members Present

Bob Schoenberger
Ramsey G. DiLibero
Peter Knipe
Dante W. Renzulli, Jr. Esquire
William H. Shirk
Vince Carosella

Authority Members Absent

Peter Marroletti

Management and Staff Present

Robert A. Watts
Dave Lozenski
Gary Laird
Owen R. Esterly
Teresa Devine

Solicitor

Vince Pompo, Esquire

2. **Meeting Minutes.** The minutes of the *Work Session Meeting*, July 23, 2009 and the *Regular Meeting* of July 30, 2009 will be approved at next week's *Regular Session Meeting*.
3. **Chairman's Announcements.**

The Chairman had no announcements.
4. **Executive Director's Report.**

A. Monthly Activity Report: Mr. Watts said he would like to highlight a few items from his monthly report. From his correspondence received section Mr. Watts said we received a letter from PADEP that our Area E Air Permit Application was administratively complete and the Public Hearing for our Area E Expansion Application has been scheduled for the Caernarvon Township Building September 1, 2009 at 7:00 p.m. Mr. Watts said he had recently received an invitation to the Boy Scout Troup 172 cabin dedication because we donated funds toward its construction. Mr. Watts said he and a few of the staff had attended a web presentation by PennBid to see if their web based software product could save us time and money on future bids.

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

C. News Articles: This section contains a copy of a newspaper article that Lancaster County Solid Waste Management Authority received a \$1.5 million grant to construct two 370 feet high wind turbines at their Manor Township property. There was also an article on SECCRA receiving a \$1.1 million grant to help pay for their third generator.

D. PADEP Press Releases: This section contains a copy of a recent press release on the harms vs. benefits approval of a 90 acre expansion of a Waste Management landfill in Erie County. The Brads Landfill in Schuylkill County was denied a permit because the benefits did not clearly outweigh the harms.

E. IWS Transfer Station: Mr. Watts confirmed that they were willing to transfer waste of Chester County origin to Lanchester for a range of costs per ton that was in their letter to us in addition to what we charge their trailers for disposal.

F. Granger Energy Amendment: Mr. Watts said this section this week only contained a copy of the email sent to him by Mr. Zylstra. He said Mr. Zylstra would have a revised draft amendment to us in time for next week's Board Meeting.

5. Operations/Site Development Report:

A. Monthly Activity Report: Mr. Watts said he would give Mr. Myer's report today because he is on vacation. Mr. Watts said the landfill gas flow has been in the 2,500 cubic foot per minute range. Our rain gauge recorded 4.79" of rain for July. Mr. Watts said we started placing select waste in Cell D-2 on July 21st. We had five lambs and three kids born in July. Mr. Watts said there is a cost to cover waste report attached as well as PADEP and Caernarvon Township inspection reports.

6. Facility Engineer's Report:

A. Monthly Activity Report: The Monthly Engineer's Report for August 2009 was presented to the Board. The following tasks were mentioned.

- Two projects have been added to the list of Construction Services Contracts: the Area C Landfill Gas Well Additions; and the 2009 Roadway Improvements.
- Ludgate Engineering Corporation performed various surveys during this report period. The surveys were listed in the Report.
- During this report period, SCS Engineers continued to provide Construction Phase Engineering (office support) Services on the Cell D3 Landfill Gas System Expansion and the Area C LFG Well Additions.

- The Authority Staff is performing field inspection and Construction Quality Assurance functions on the Cell D3 Landfill Gas System Expansion. The LFG well additions and the leachate recirculation trench were completed during this period.
- The fifth monitoring well near the original location of EW-312 was installed on August 7, 2009.
- The Application for the Minor Permit Modification for the relocation of the existing landfill gas flare station was sent to PADEP on July 8, 2009. The Application remains under PADEP review.
- On August 6, 2009. Mr. Joel Sipe of PADEP, Division of Dam Safety requested a drawing of the proposed pond rehabilitation work. The drawing should be completed before the end of the week.
- The claim letters dated June 18, 2009 from Geosyntec Consultants were discussed. Response letters for three of the claims were issued on: July 28, August 4 and August 6. A summary of each of these letters was presented in the Report.
- On August 17, 2009 I received a telephone call from John Oren of PADEP to inform me that Tom Hanlon has been transferred to PADEP's Air Quality Program. Tom was the PADEP engineer assigned to Lanchester by the Solid Waste Program. John indicates he will assign a replacement in the near future.

B. Geosyntec Consultants – Status Report: A “draft” letter to Geosyntec Consultants regarding the PADEP 10-Year Rule was presented to the Board. The “draft” letter was reviewed and discussed. Following the discussion the Board directed that additional information is necessary and should be requested. The conclusion of the letter will be modified in accordance with the Board’s instructions.

C. ARM – Status Report: The August 12, 2009 Status Report from the ARM Group Inc. was presented to the Board. The Status Report identified the September 1, 2009 PADEP meeting regarding The Area E Permit Application.

D. Keystone Engineering Group – Status Report: The August 18, 2009 Monthly Progress Report from Keystone Engineering Group, Inc. was presented to the Board.

E. Blazosky Associates – Status Report: The August 17, 2009 Progress Report from Blazosky Associates, Inc. was presented to the Board.

F. 2009 Roadway Improvements – Notice to Bidders: The Notice to Bidders for the 2009 Roadway Improvements Project was presented to the Board. Bids are to be received on September 16, 2009.

7. Water Management’s Report:

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

JULY HIGHLIGHTS:

- July 2009 landfill leachate 438,939 gallons (includes gas condensate)

Leachate by area breakdown:

Area C	164,985 gallons
Area B	116,351 gallons
Area D-1	97,294 gallons
Area D-3	26,951 gallons
Granger gas condensate	33,358 gallons

Year to date landfill leachate 3,095,550 gallons

- July 2008 landfill leachate 591,188 gallons
- July 2009 Rainfall 4.62"

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

T-101 Leachate Storage Tank	- 295,000 gallons	capacity – 850,000 gallons
T-115 Leachate Storage Tank	- 0 gallons	capacity – 850,000 gallons
<u>T-100 Equalization Tank</u>	<u>- 42,000 gallons</u>	<u>capacity – 110,000 gallons</u>
Total Leachate Inventory	- 337,000 gallons	capacity – 1,810,000 gallons

Total percent of storage utilized - 18.0 %

LEACHATE COLLECTION SYSTEMS –

The Leachate collection system is 100% operational.

RECIRCULATION SYSTEM

- 206,539 gallons was recirculated during the month of July 2009. Recirculation for the month was into the leachate blankets.

Recirculation to date: 8/1/2009

<u>Trench #</u>	<u>Recirculated (gal)</u>	<u>Maximum (gal)</u>	
A	-----	-----	This Trench is closed
B	-----	-----	This Trench is closed
C	1,278,937	1,888,720	
D	1,184,715	1,783,398	
E	1,367,401	2,631,930	
F	2,716,003	3,682,875	
G	2,858,093	5,066,750	
H	1,059,457	5,687,500	
Total	11,588,550 (gal)	21,681,836 (gal)	

Remaining Trench Capacity – 10,093,286 gallons

Blanket #	Recirculated (gal)	Maximum gallons/year
1	294,709	1,250,000
2	280,531	1,250,000
3	264,104	1,250,000
4	229,492	1,250,000
Total	1,068,836 (gal)	5,000,000 (gal)

UFRO Research and Development June 09

Assistance has been requested From the EarthRes Group. Current status is as follows,

- A Purchase Order in the amount of \$3500.00 was issued to Thomas Pullar, P.E. with The EarthRes Group on 6/22/2009 for consulting services related to the UFRO Treatment Plant through put improvements.
- Thomas Pullar, P.E. from the EarthRes Group and Peter Hutwelker Senior Technician with Environmental Systems & Equipment Services were on site 6/2/2009 and began the initial investigation. The two spent most of the day on site reviewing records and understanding the process.
- Peter Hutwelker took a sample of leachate after the gravity bed filter and was of the opinion that thin wall UV treatment may be possible.
- The EarthRes Group is also exploring the option of chlorination followed by de-chlorination ahead of the UF unit along with the use of a biocide.

As of 8/20/2009

- It was determined that the transmission ability of UV light is **not adequate** to penetrate the leachate due to its turbidity and color.
- Test results **have not** been made available from either Betz chemical or Nalco concerning the possibility of Biocides and their application.
- Analytical testing proved that there is have biological growth and solids build up within the UF feed tank. This fact was **already known** by CCSWA treatment plant personnel.

In House Bench Work:

CCSWA Treatment Plant personnel have been involved in bench scale tests involving Hypochlorite treatment of gravity bed filtrate followed by bisulfate de-chlorination. After CL2 residual was confirmed <0.1 samples were allowed to sit at room temperature for 10 (ten) days. No bacteria growth was noted. As a control measure non-chlorinated gravity bed filtrate samples were allowed to sit at room temperature for 10 days and significant bacteria growth was noted. Also noted was that on every cleaning cycle of the UF unit Hypochlorite was used alone and the system has been cleaning up in minutes without the use of the detergent cleaner.

CCSWA Treatment Plant personnel are convinced and recommend chlorination followed by De-chlorination of the UF Unit feed water. It would be best to carry a chlorine residual through the UF Unit and de-chlorinate after UF filtration. Electronics will be required to monitor this process.

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 8.4 gpm and the RO system is operating at an average flow rate of 8.0 gpm. The plant is averaging approximately **1,785 gpd** for the month of July 09.
- New UF membranes were installed in early July and this has increased the supply of filtrate to the RO unit by double. Consumable components, bag filters and RO cartridges have decreased from two change outs a week to about once a month.

The RO unit produced – **94,160** gallons of permeate during the month of July 2009

MONTHLY COST ESTIMATE	\$4,949.14	
Monthly Deprecation		\$8,294.27
Monthly Electric	\$1,795.00	
Total	\$6,744.14	
Cost Per Gallon	\$0.07	\$0.16

GROUND WATER INVENTORY UPDATE: 7/1/2009

Ground Water Storage Pond – 712,200 gallons 89 % of capacity

Total Ground Water received for July 2009 – 273,475 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 June 2009 will report full compliance with the new 2009 NPDES Permit. All Monitored Parameters were below required discharge limits.

0 gallons from the effluent equalization tank (Outfall 100) of treated permeate and 296,700 gallons of groundwater (Outfall 101) was discharged to (Outfall 001). A total of 296,700 gallons was discharged to the Conestoga River during June 2009.

8. Compliance Officer's Report:

A. Monthly Activity Report: Ms. Devine mentioned there were no radiation alarms since the last meeting. Ms. Devine mentioned there were a couple of groups at the landfill for tours, one was from U of Penn and had an interesting mix of high school and college students and the other was a summer camp from the Green Valleys Association. Ms. Devine mentioned she accompanied Joe Cutter on a site inspection on 8/12, there were no problems noted. Ms. Devine also mentioned that DEP air quality and solid waste inspectors were at Lanchester for inspections on August 18th. Joe Cutter also accompanied the DEP for the inspection. There were no issues identified that required corrective action.

9. Recycling Coordinator's Report:

A. Monthly Activity Report: Mr. Watts said he would give Ms. Fromnick's report today because she is on vacation. Mr. Watts said Ms. Fromnick had a meeting last month with Willistown Township and PADEP officials to work on a Burning Ordinance. Ms. Fromnick was also successful in having the Chester County Commissioner's approve the new recycling processing and marketing contract. Ms. Fromnick also attended the annual Professional Recyclers of Pennsylvania meeting in Scranton at the end of the month.

9. Business Manager's Report.

A. July 2009 Monthly Tonnage Report: Mr. Lozenski presented the Tonnage Report for July 2009, indicating that the tonnage of 26,176.34 was 4.0% under budget and was lower than July 2008 by 7.8%.

B. July 2009 Accounts Receivable: Mr. Lozenski stated that receivables day sales outstanding decreased from 34.90 days in June 2009 to 33.51 days in July 2009. Mr. Lozenski stated that the decrease was due to faster payments from several accounts.

C. July 2009 Financial Statement: Mr. Lozenski presented the Financials for July

2009 stating that we had a gain of \$380,898 for the month. Retained Earnings are at \$38,575,963. The funds invested totaled \$33,350,172.16 at month end. The interest earned in July 2009 was at a rate of 1.72% down from the 1.85% in June 2009. The rate decreased due to the rollover of funds to lower interest rates.

D. July 2009 Vendor Check Register Report: The Vendor Check Register was presented to the Board. The checks for July 2009 totaled \$1,449,704.37.

E. Large Dollar Check Approvals: Mr. Lozenski presented the August 2009 Large Dollar invoices totaling \$311,646.62 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.

There being no further business, the meeting was adjourned at 6:59 p.m.

Prepared by,

Peggy A. Cunius