



THE STOCK LINE

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Berlin-Gorham Operations
Berlin-Gorham, New Hampshire

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Season's Greetings!

FINALLY, THE NEW LANDFILL

By Ray Danforth

Director, Environmental Services



A ribbon cutting ceremony marked the official opening of the Mt. Carberry Landfill.

L. to R.: Guy Cote, Landfill Design Engineer; Dave Marcotte, Landfill Superintendent; Representative Howard Nelson; Jean Nelson, City Council Member; Robert Platt, Chairman Androscoggin Valley Solid Waste District; Brad Wyman, Woodlands Manager; George Hill, Project Engineer and Ray Danforth, Environmental Director.

After what seems to us an almost endless struggle against ever changing rules, the new Mt. Carberry Landfill has officially opened. On Sunday, November 19, we had the official opening and openhouse to show people the area and what had been accomplished. But let's go back and revisit the steps and milestones on this overall job and what it really means to James River and the community.

Shortly after we put the last section of the landfill behind the service garage on-line in late 1986, the available surveys and waste generation rates indicated that we probably had only three to four years of capacity available. Therefore, in early 1987, we decided that it was

time to immediately start on a new landfill. What - three years to permit and build a new landfill is ridiculous! True, but with all the problems that we expected and some that we didn't, three years was barely enough. Today, one doesn't simply find an isolated area and start filling it with waste.

Step one was a site search. Working from aerial photos, topographic maps, soil maps and personal interviews, thirty-four potential sites were selected within about 20 air miles of Berlin. The major criteria in each case was that there had to be an area that was large and flat enough to support at least five years worth of landfill activity. Then the selected sites were evaluated on the basis of wetlands, visibility, truck traffic problems, haul distance, accessibility and general aesthetic concerns and most of the sites were discarded. Those which survived were visited and carefully "walked" to look for flaws such as exposed bedrock, wet areas, streams etc. which did not show on the maps. From this we arrived at five sites, all in the Success area. At this point, test holes were dug at each site to evaluate the soils to be certain that the proper soils were available. (Proper soils are those which do not allow water to penetrate, are deep to bedrock and are not a major water supply area.)

This last evaluation caused the selection of the Mt. Carberry site, approximately two miles East of the Service Garage as the best. Some of the positives are; near to Berlin, isolated from community, above WWTP so that leachate (waste water) could go to treatment by gravity, excellent soil, no bedrock. The major negatives are that it is uphill of the mills and that it contains some wetland. We then began a series of test borings (about 65) which proved that the soil was as tight and impermeable as a clay liner, making this the best site found to date in northern NH for a landfill.

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All of the above took about four months, and we felt that much of the work was done. Then we got into the serious permitting work. We needed New Hampshire permits from the Waste Management Division, Ground Water Protection and Wetlands. After preparing all of the documents, the applications to the above groups were submitted in November, 1987. Although we had some problems and questions were asked, everything went smoothly until May 1988 when we were told that we also needed a Federal Army Corp Wetland permit.

Then the fun began. This one permit took 13 months of intense activity, meetings, and negotiations, and we have still not been able to permit all of the wetlands needed. We finally traded 88 acres of high quality wetland into a conservation easement to protect it, for four acres which by the newest definition is called a wetland. These four acres are generally dry, but because they support wetland plants, they are considered to be wetlands, and therefore worthy of protection.

After receiving all of the permits, construction began in June 1989, on the first cells which are designed to last about one year. If we can get the necessary permits for further expansion, this landfill will grow to 110 acres over 35 years, and reach a height of 160 feet.



View of Mt. Carberry Landfill.

Does this landfill protect the environment? Yes. This design is "state-of-the-art" and incorporates two layers of plastic, each a bit thicker than the board on the back of a paper tablet. Separating the plastic is a blanket of sand (12 inches) and a leak detection system. On top of the liners is an extensive piping system to collect any contaminated water and convey it to the wastewater treatment plant. Finally, another sand blanket protects the top liner from damage. In summary, this will protect the environment by collecting and treating any and all contaminated water.

To ensure environmental protection, there are 13 monitoring wells in the area and more will be added as the landfill expands. Each of these is tested every three months and the results compared to previous results to detect trends and problems. If a problem were detected, a trench could be placed to collect all contaminated water before it reaches the wetland and the river.

From the very beginning, our concept was to make a regional landfill. The reasons are very simply that; it is cheaper to construct one large landfill rather than many small ones, and it is much easier to prevent environmental contamination from



Interested and curious alike came out in spite of the frigid cold weather. Pictures, diagrams, material samples and information were available at the landfill maintenance garage.

one facility rather than from many. Therefore, the Mt. Carberry Landfill will be available to the communities north of the mountains in New Hampshire for use on a cost basis. This last aspect is very important. James River is not making any profit by selling space to the towns. We are doing this on an actual cost basis and will revise our fee structure each year, either up or down, to reflect actual costs. We will be accepting mill waste from the James River mills in Berlin, Gorham, Groveton and Pepperell, Mass. Since we are not a commercial landfill we will not accept waste from other companies.

Fine, but what are acceptable wastes? From the mills, we will accept at Carberry process wastes which include sludges, lime, ash and similar wastes. From the communities, we will accept municipal garbage. Because the EPA has insisted that they will not allow us to expand this landfill onto additional wetland unless James River has done everything possible to extend the life (capacity) of each cell, we must insist that everyone using the landfill equally works to reduce the volume going to the landfill. Therefore, James River is working to reduce sludge volume, promote alternate outlets for waste such as land-spreading or incineration and improve process efficiencies.

(continued on page 3)



This beaver dam sits in a part of the 88 acres of "high quality wetlands" that was traded into a conservation easement to protect it.

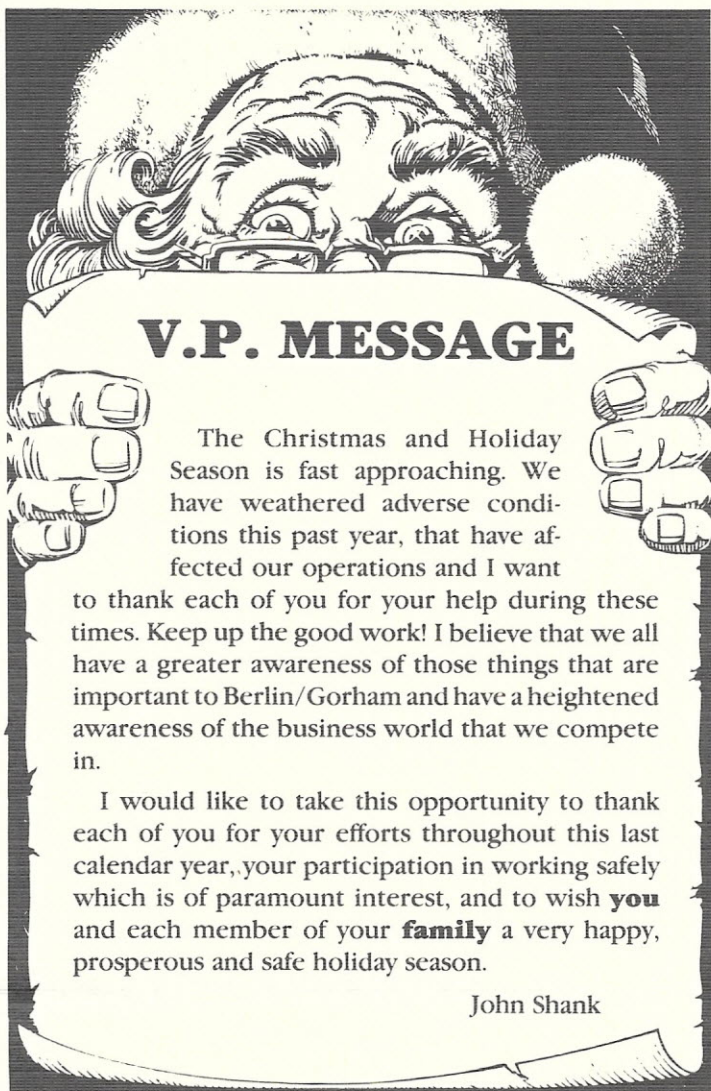
Ber - Gor Bits

JOB CHANGES

- Peter Thain Promotion - Project Engineer, Engineering to Capital Engineer, Burgess
- Jackie Leclerc Job change - Part Time Industrial Nurse, Cascade to Full Time Industrial Nurse, Human Resources.
- Donna Bunnell Promotion - Staff Accountant to Financial Analyst.
- Bryant Pake Transfer - From Groveton to CA Ledger Accountant, Accounting
- Susan Ramsey Promotion - Personal Systems Analyst to Programmer/Analyst.
- Nancy Merrow Transfer - From S. Hampton to Logistics Manager, Cascade
- Mark Bechtold Job Change - Facilitator/Trainer, Employee Involvement to Organizational Development Coordinator, Cascade.

SERVICE AWARDS

<p>NOVEMBER</p> <p>5 YEARS</p> <p>Paul Pinette</p> <p>15 YEARS</p> <p>Robert Chauvette</p>	<p>DECEMBER</p> <p>5 YEARS</p> <p>Shirley Jackson</p> <p>20 YEARS</p> <p>Norman Gaulin</p>
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V.P. MESSAGE

The Christmas and Holiday Season is fast approaching. We have weathered adverse conditions this past year, that have affected our operations and I want to thank each of you for your help during these times. Keep up the good work! I believe that we all have a greater awareness of those things that are important to Berlin/Gorham and have a heightened awareness of the business world that we compete in.

I would like to take this opportunity to thank each of you for your efforts throughout this last calendar year, your participation in working safely which is of paramount interest, and to wish **you** and each member of your **family** a very happy, prosperous and safe holiday season.

John Shank

(New Landfill, continued from page 2)

The communities will have to help by recycling everything that can be reused including aluminum, steel, glass, paper, plastic etc. Finally, we should make clear that we are not accepting any hazardous wastes, because we are not licensed to handle them and have no intention of obtaining licenses. All of this will result in a landfill which will last closer to 50 or even 100 years rather than the 35 year original design.

To accomplish the necessary separation (recycling) within the mills so that only the proper materials go to the various landfills, we will be installing bins in many areas for separation. These will be for such things as office paper, metals, lunch room garbage etc. When these are finally installed, we will need your help in properly separating materials so that the landfill can operate properly and we do not need to waste funds separating material at the landfill.

Generally, the landfill will be open 24 hours a day for mill waste and 8 hours, Monday through Friday, for municipal garbage. Each truck will be weighed in and out and the weight charged to the source.

In summary, we have spent three years developing a regional landfill of modern design which should be one of the major pieces in the puzzle of how to protect groundwater in the area, clean up the environment and allow an economical solution for the North Country to solve their solid waste problem.

Parenting is the Toughest Job in the World

For Confidential Assistance With Personal Problems, Call Your EAP

CALL 752-4600 ext. 2534

EMPLOYEE ASSISTANCE PROGRAM

CELLULOSE FLOC DIVISION ATTENDS ANNUAL AACC MEETING

By Bill Miller

Early in November three members of the Cellulose Floc Division attended the annual meeting of the American Association of Cereal Chemists in Washington, DC. This meeting is attended by many of the top research scientists in the food industry. Companies such as Pillsbury, General Mills, Kraft General Foods, and HJ Heinz are well represented. The meeting consists of technical sessions, where papers on a variety of topics such as Baking, Quality Control, and New Ingredients are presented. The other part of the meeting is an exhibition of food products, equipment, and ingredients put on by various suppliers to the food industry. The Floc Division had a display for this year's meeting and showed some of the ways Solka-Floc®

powdered cellulose can be used in food products. We gave away samples of reduced calorie brownies containing Solka-Floc® for participants to evaluate.

Also, during the technical sessions, Jit Ang had two poster presentations about Solka-Floc®. They were titled: "Effect of Powdered Cellulose on the Textural Properties of Cakes as Measured by the Instron" and "Enhancement of Cake Volume by a New Form of Powdered Cellulose". Between the two papers and the exhibit more than 70 requests for technical information and samples were generated. All of these requests represent potential sales in the future for the Cellulose Floc Division.

NOTICE ON SAFETY SHOE SALES AND REIMBURSEMENTS

The safety shoe program at James River Berlin/Gorham complex will undergo a change beginning January 2, 1989.

At that time, employees will be able to buy safety shoes at Morin's Shoe Store, Main Street, Berlin. Morin's will become the Iron Age representative for sales to **Berlin/Gorham employees** and will be responsible for all aspects of the sales made at the store; i.e., keeping records, returning defective boots/shoes, and otherwise running the program.

Morin's Shoe Store will be open to customers 9:00 am to 5:00 pm Monday through Saturday, with the exception of Friday, when the store will remain open until 8:00 pm.

PLEASE NOTE: No sales will be made to employees without ID badges.

In the interim between now and January, the Iron Age Shoe van will be in the Engineering Parking lot on December 13 from 10:00 am - 6:00 pm.

Employees not able to find suitable boots at Morin's Shoe Store may still purchase them from other vendors and submit sales slips and boots for examination, as in the past, to Julia Sullivan, in the Safety/Medical Department at the Human Resources building.

Anyone having questions regarding the change outlined above may call Julia Sullivan, Ext. 2513.

WANTED VOLUNTEERS

James River Emergency Response

James River is looking for more volunteers for the Emergency Response Team. If fire fighting, medical emergencies or dealing with a variety of hazardous materials is something that interests you, please call us for more information concerning E.R.T. Choose from fire fighting, medical or hazardous materials (HAZ. MAT.) training: We'll train you to become an expert at it. You will also be trained in the use of self-contained breathing apparatus. The only requirements are, you must be

- Physically fit
- Able to pass a complete physical yearly
- Clean shaven

All interested persons, please call John Ginter, Emergency Response Coordinator at the Human Resources building, ext. 2515.

Emergency Response Course

HAZARDOUS MATERIALS

SCBA

Fire Extinguishers

Advanced Hazardous
Materials II

Specific Chemicals you
personally deal with

*A minimum of 88 hours
of training*

FIRE FIGHTER

SCBA

Fire Behavior

Fire Extinguishers

Hose Lines

Fire Streams

Ventilation

*A minimum of 72 hours
of training*

MEDICAL

SCBA

First Responder

*A minimum of 86 hours
of training*

The President and Vice President
of Local 75, along with
The Executive Board
would like to extend the Sincerest Wishes
for the upcoming Holiday Season.

TURKEY DAY

The Annual "Turkey Give-Away" will be held Thursday, December 14. Christmas Turkeys will be distributed to all Berlin/Gorham employees between the hours of 7:00 am and 5:00 pm, at the Engineering parking lot (north end). (These are the only times that you can pick up your turkey.)

Local 75 will again set up their barrel for donations for the **Exceptional People of the area**. Dig deep into your pockets for a generous donation this holiday season. We are looking for volunteers to man the barrel. **Please call the union office at 752-2225 and donate your time!**

If you need more information or have any questions, please call ext. 2307. We'll see you December 14 at the Engineering Building.

Have a Save and Happy Holiday!

Happy Holidays

*If you must drink . . .
Don't Drive!!!*



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Dick LaPoint

Thank you to those who contributed to this issue of **The Stockline**. If anyone has suggestions for **The Stockline** please call Extension 2307. **The Stockline** is printed on James River Curtis Linen printing paper.



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