



The State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES



Thomas S. Burack, Commissioner

March 19, 2008

Mr. Eugene Martin
Senior Project Manager
Casella Waste Systems, Inc.
3 Pitkin Court
Montpelier, Vermont 05602

SUBJECT: 2006 AND 2007 BROMIDE ANALYTICAL RESULTS/NORTH COUNTRY ENVIRONMENTAL SERVICES/LOCATED AT 581 TRUDEAU ROAD, BETHLEHEM, NEW HAMPSHIRE/DES-SW-SP-03-002

Dear Mr. Martin:

The New Hampshire Department of Environmental Services, Waste Management Division (Department) has conducted a review of Stage 4 secondary leachate flows; bromide concentrations detected in various groundwater monitoring wells; and SHA's September 28, 2007 discussion of bromide concentrations detected in groundwater monitoring wells B-921U and B-913M.

As a result of the Department's review, the following observations have been made:

1. There appears to be a relationship between Stage 4 secondary leachate flows and rainfall events (refer to enclosed NCES Secondary Leachate Flows chart).
2. Since the start of Stage 4 operations (October 2006) through November 2007, bromide concentrations in wells B-921U and B-913M have been increasing (refer to enclosed NCES Groundwater Bromide chart).

SHA's September 28, 2006 letter stated that the leachate overtopping had little, if any, impact on the environment and that the water discharged to the Detention Pond 4 likely infiltrated into the sediment in the base of the pond, which was subsequently removed by Casella Construction and disposed in the landfill.

On page 11 of SHA's 2007 Summary of Water Quality Monitoring, September 2007, SHA stated that the bromide concentration in B-921U was due to the unexpected rains overwhelming the temporary storm water controls and leachate berm, resulting in a discharge to Detention Pond 4.

Since bromide also shows up in the secondary leachate of Stages 3 and 4 (refer to enclosed NCES Leachate Bromide chart), it is important to verify as soon as possible that bromide showing up in the monitoring wells is from construction activities as stated above.

Mr. Eugene Martin
Casella Waste Systems, Inc.
March 19, 2008
Page 2 of 2

The Department hereby requests that bromide concentrations in wells B-921U and B-913M be analyzed monthly for bromide, until the concentrations reach the background bromide concentration range (0.1 to 0.4 mg/l), and submitted with the Facility Monthly Report.

If you have any questions, please contact me.

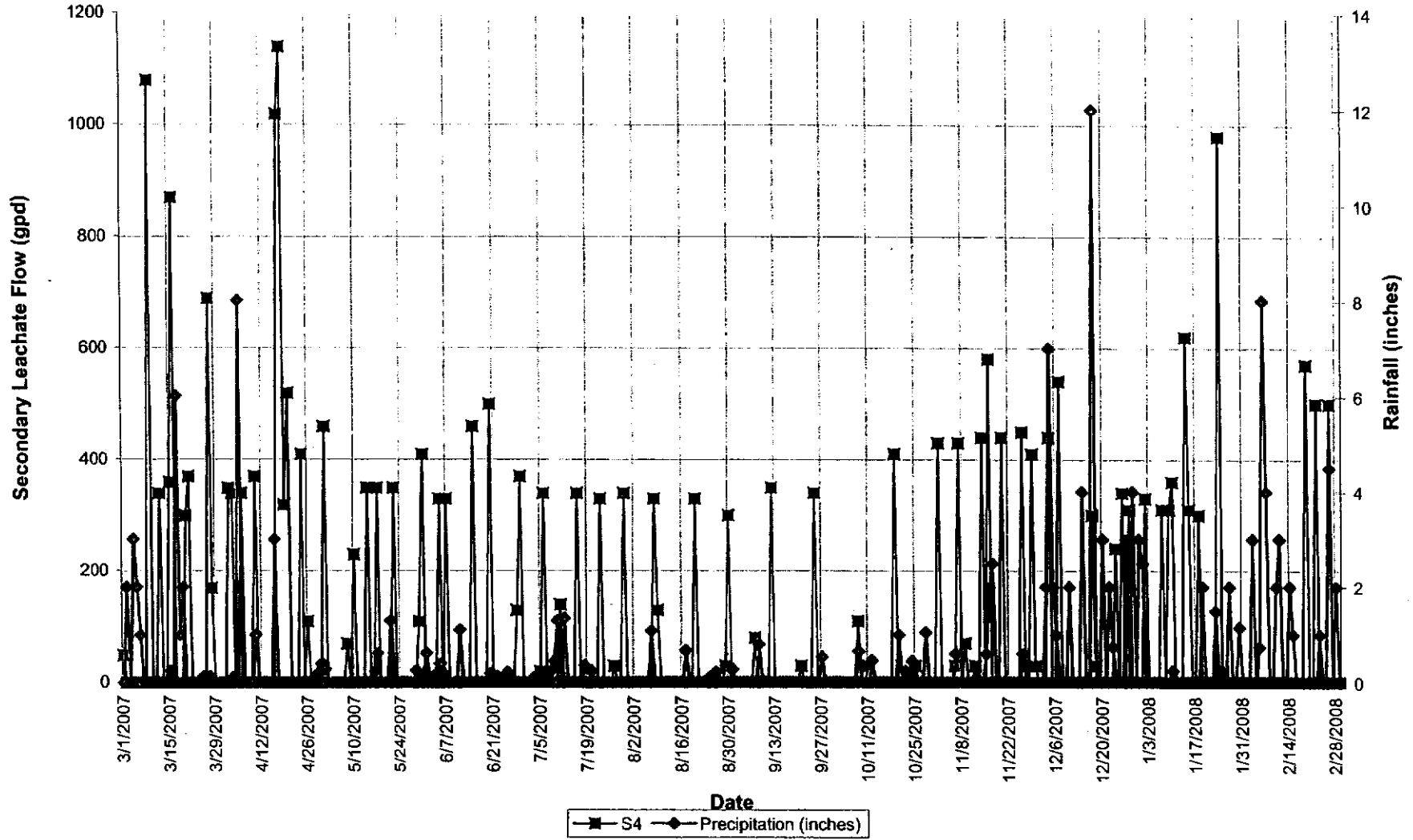
Sincerely,



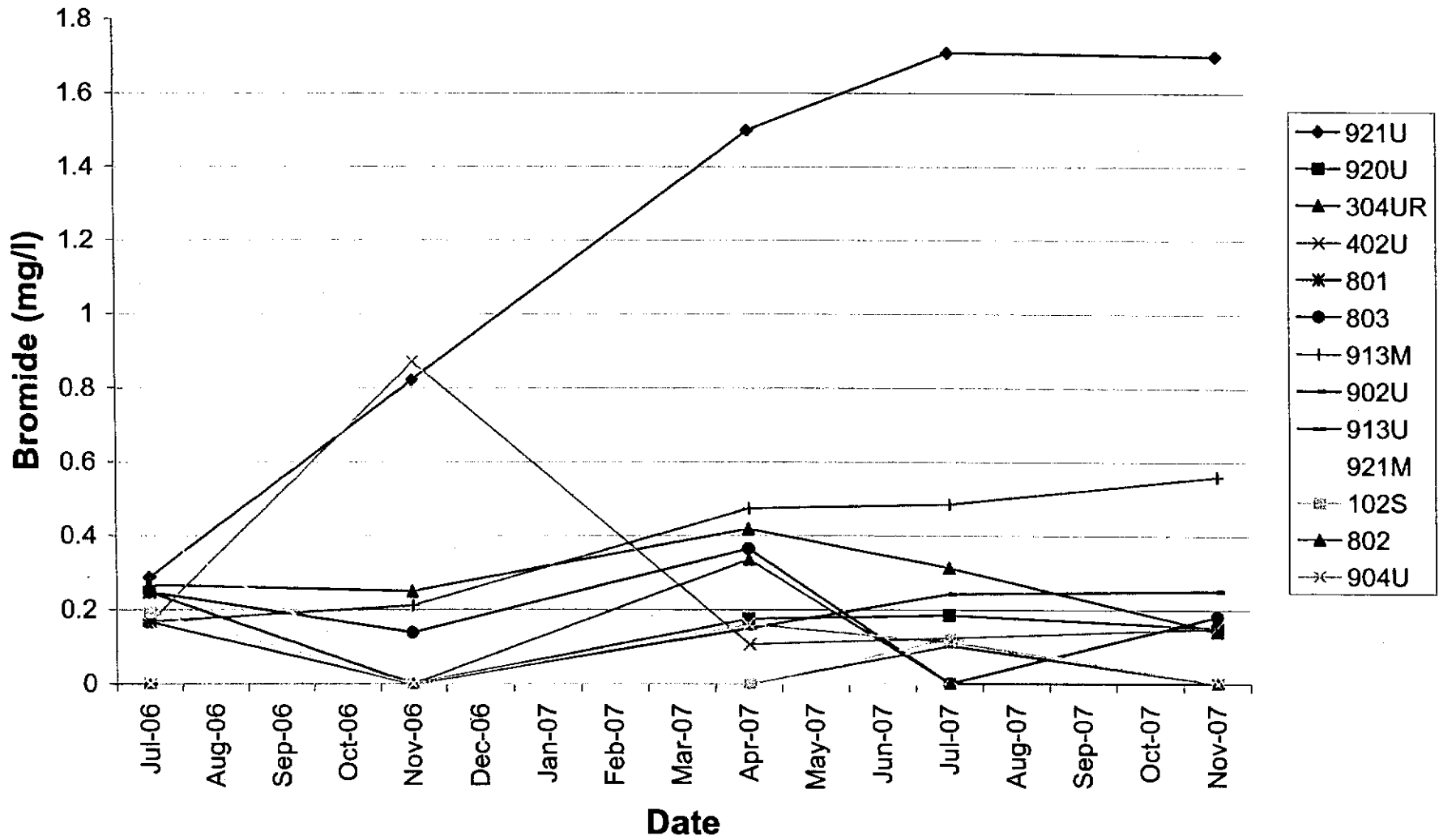
Wayne A. Wheeler, P.E.
Solid Waste Management Bureau
Tel: (603) 271-5185
Fax: (603) 271-2456
E-mail: wayne.wheeler@des.nh.gov

- Encl: 1. NCES Secondary Leachate Flows chart
2. NCES Bromide chart
3. NCES Leachate Bromide Chart

NCES Secondary Leachate Flows



NCES Groundwater Bromide



NCES Leachate Bromide

