Abatement Plans Are Announced

VANCOUVER (CP)—Two major new British Columbia pulp mill operations have earmarked almost $6,000,000 for control of pollution in air and water, long a sore spot between the timber industry, conservationists and government agencies.

The Tahsis Co. Ltd. will spend more than $3,500,000 at combat water and air pollution at the huge operation it is building at Gold River on Vancouver Island.

And at Prince George in the B.C. interior, the Prince George Pulp and Paper Co. Ltd., has announced plans to spend $2,500,000 on pollution abatement.

The Gold River program represets about six per cent of a total investment of $55,000,000 and the firm estimates that only $530,000 of the pollution control figure "can be justified by economic returns."

Patrick N. Bowle-Evans, manager of Pulp Mill Design and Construction, said the Tahsis plans have been approved by the technical staff of the federal fisheries department and are now under consideration in Ottawa.

He said Tahsis set out to do two things: Recover for sale or reuse as much of the mill refuse as possible, and to intercept each waste stream at its source before it mingles with pure air or water.

DISCHARGE INTO SEA

A 1,700-foot tunnel will take the mill effluent to a body of sea water far from the mouth of Gold River and release it through a diffuser pipe 80 feet below sea level.

Other installations will dispose of waste such as bark, and there will be a precipitator on the recovery furnace to reclaim salt cake which would otherwise be lost up the chimney.

Mr. Bowle - Evans said tests indicate cleaner — and better smelling—air will result and the company will regain materials that would otherwise have been lost.

At Prince George, engineers have installed a number of special facilities to stop pollution.

The company is trying out a dry barker instead of a wet one so that waste doesn't settle in a nearby river.

Flotation equipment will help recover fibrous material before it is discharged and all effluent will be treated with special chemicals before it is released.

Dr. George Charles, the Prince George Company's technical director, said his firm will try a number of different anti-pollution methods — including one plan to neutralize organic matter resulting from the pulp process with rich topsoil mixed with chicken manure.

Mill effluent is first neutralized, then it moves to a 14,000,000-gallon retention basin in one system now being tried. The effluent is aerated for 24 hours to provide maximum oxygen content and metered ingredients of nitrogen and phosphorous, vital for biological activity, are added.

Bacterial sludge settling and recirculation facilities have been added to provide seed material for the neutralize bleach plant effluent.

Dr. Charles explained that organic material—bleach plant effluent—which accounts for more than half the mill effluent, contains organic matter not removed in the cooking process required to produce pulp.

The organic material, if discharged directly into the river, would provide food for micro-organisms which would multiply rapidly, creating a shortage of oxygen required by fish.

He said the Prince George system takes the organic effluent out of the mill refuse by neutralizing it with other forms of life and chemicals—an expensive accomplishment, but well worth the results.

ON THE AIR

The following program listings are published free of charge as a public service and appear as presented to us by the stations concerned.

TUESDAY PROGRAMS

CFCY-TV

1:30 p.m.—Musicale
2:00 p.m.—Film Festival
2:30 p.m.—Today At Home
3:00 p.m.—To Tell The Truth
3:25 p.m.—Take 30
4:00 p.m.—World In Contrast
4:31 p.m.—Razzle Dazzle
5:00 p.m.—Wild Bill Hickock
5:30 p.m.—Music Hop
6:00 p.m.—Political Telecast
6:30 p.m.—Gazette
7:00 p.m.—CFCY TV News
7:15 p.m.—TBA
7:30 p.m.—Gilligan's Island
8:00 p.m.—Big Valley
9:00 p.m.—Red Skelton Hour
10:00 p.m.—Front Page Challenge
10:30 p.m.—Dick Van Dyke
11:00 p.m.—Newsmagazine
11:30 p.m.—The Public Eye
12:00 p.m.—CBC TV News
12:13 p.m.—Local Weather & Sport Scores
12:15 p.m.—Sign Off

CKCW-TV

9:57 a.m.—Station Sign On
10:00 a.m.—Canadian Schools
10:30 a.m.—Nova Scotia Schools
11:30 a.m.—Friendly Giant
11:45 a.m.—Chez Helene
12:00 p.m.—Butternut Square
12:20 p.m.—Across Canada
12:50 p.m.—Tuesday Playbill—Mission Over Korea
2:30 p.m.—At Home with Helen Crocker
3:00 p.m.—To Tell the Truth
3:30 p.m.—Take Thirty
4:00 p.m.—World In Contrast
4:30 p.m.—Razzle Dazzle
5:00 p.m.—William Tell
5:30 p.m.—Music Hop
6:00 p.m.—Supper Club
6:15 p.m.—TV News
6:25 p.m.—TV Weather
6:30 p.m.—TV Sports
6:35 p.m.—Supper Club
7:00 p.m.—Musical Showcase
7:30 p.m.—Dr. Kildare
8:30 p.m.—Sumnerizing Sports
9:00 p.m.—Red Skelton
10:00 p.m.—Front Page Challenge
10:30 p.m.—Dick Van Dyke
11:00 p.m.—News Magazine
11:30 p.m.—Public Eye
12:00 a.m.—CBC National News
12:15 a.m.—Viewpoint
12:20 a.m.—Lionel Network News
12:30 a.m.—Station Sign Off

CFCY RADIO

TUESDAY

6:30—News and Weather
6:35—Morning Roundup
6:45—Island Weather, Mar. Temp.
6:46—Morning Roundup
7:15—Morning Roundup
7:30—News and Weather
7:35—Farm Report
7:41—Morning Roundup
7:45—Island Weather, Mar. Temp
7:46—Morning Roundup
7:56—Sports Capsule & Scoreboard
8:01—News
8:11—Weather
8:16—Morning Roundup
8:55—Weather
9:00—CBC National News
9:10—Notes and Music
10:00—News and Weather
10:05—Notes and Music
10:30—Preview Commentary
10:35—Checkpoint
10:50—Notes and Music
11:00—News and Weather
11:05—Notes and Music
11:45—Bulletin Board
11:55—Agriculture '66
12:00—Weather
12:05—Town and Country Time
6:55—News and Weather
7:00—Hebrew Christian Hour
12:30—News and Weather
12:45—Town and Country Time
1:00—News and Weather
1:05—Town and Country Time
1:15—What's On Tapp
12:43—P.E.I. Road Report
1:45—Town and Country Time
2:00—News and Weather
2:05—Mostly Music
2:30—Assignment
2:35—Mostly Music
2:58—Thought For Today
3:00—News Headlines and Weather
3:03—Trans-Canada Matinee
3:30—Pop Caravan
4:00—News Headlines and Weather
4:03—Canadian Roundup
4:10—Pop Caravan
5:00—News and Weather
5:05—The Outports
5:25—Marine Weather
5:28—The Outports
5:45—Sports Capsule and Scoreboard
5:50—The Outports
6:00—News and Weather
6:10—Tonights Music
6:30—Business Barometer
6:35—Tonight's Music
7:00—Back to the Bible
7:30—News and Weather
7:46—Lone Guide Program
8:00—CBC Tuesday Night
10:00—CBC Nat. News, On Parliament Hill and Speaking Personally
10:30—Christian Frontiers
11:00—News and Regional Weather
11:05—Starlight Serenade
11:30—News and Weather
11:55—Starlight Serenade
12:00—CBC News, Marjrime Weather and Sports

CBA RADIO

TUESDAY

6:00—The Morning Show, Part 1
7:00—The Morning Show, Part 1
8:00—CBC News and Inland Wx.
8:15—Maritime Sportscast
8:24—The Morning Show, Part 1
8:35—Max Ferguson Show
9:00—CBC News
9:10—Commentary
9:15—Assignment
9:21—A.M. Chronicle
10:45—Playroom
11:00—CBC News
11:03—Joan Marshall
11:15—For Consumers
11:20—Record Album
11:30—The Archers
11:45—Music On The Heather
11:55—Assignment
12:00—Jamboree Junction
12:15—Ramblin Man
12:30—Maritime Farm B'cast
1:00—CBC News and Weather
1:15—Gordie Tapp Show
1:45—Time Out For Melody
1:59—D.O. Time Signal
2:00—Time Out For Melody
2:45—John Drainie Tells A Story
3:00—CBC News
3:03—Trans-Canada Matinee
3:30—Trans-Canada Matinee
4:00—CBC News
4:03—Canadian Roundup
4:10—Music In The Air
4:30—Assignment
4:35—Music In The Air
5:00—Mar. Fish Broadcast
5:20—CBC Notebook
5:35—Assignment
5:45—Tempo and Notebook (Cont'd)
6:00—CBC News
6:15—On Parliament Hill
6:20—Today's Editorial
6:25—Inland Weather and Sports
6:30—Business Barometer
6:33—Children's Stories
6:50 Rod and Charles
7:05—Music In The Evening
7:30—Christian Frontiers
8:00—Intro To Tues., Nite Part 1
8:05—Toronto Mendelsohn Choir
8:08—Cohen's Choice Pt. 1
10:00—CBC National News
10:15—Today's Editorial and Speaking Personally
10:30—Intro To Tues. Nite Part 2
10:35—Mogens Ellegaard Accordionist
11:00—Busoni Centenary
11:05—Scandinavian Chamber Music
12:00—CBC News
12:03—Sports Scores Inland and Marine Weather
12:15—Music In The Night

Sky Divers Die In Crash

POTTSTOWN, Pa. (AP)—Five of six sky divers and their pilot were killed Saturday as their single-engine plane, carrying them on a parachute accuracy-drop contest, crashed, exploded and burned two miles from their objective.

The monoplane crashed on a farm field shortly after takeoff. It was the first flight of the sky-diving meet, which was cancelled after the disaster.

Four of the jumpers and the pilot were trapped in the cabin of the plane and plummeted with it to their deaths. Another managed to get clear and jump, but apparently his chute became tangled in the tail assembly and did not open. He hit the ground within 35 feet of the burning wreckage.

The sixth diver survived, leaping from the disabled craft as it spun earthward. He jumped from an altitude of 500 feet and landed, safely, uninjured but badly shaken by the tragedy.

The plane was piloted by Jim Kiesling, 33, Willow Grove, Pa., a veteran pilot. The surviving jumper was Walker D. McCraw, 28, a navy member attached to the naval air station at Lakehurst, N.J.

In the plane were three other navy jumpers and two civilian jumpers. The navy men were identified as Alva McBride, 23, Thomas L. Botdorf, 21, and Ronald L. West, 20, all of Lakehurst. The civilians were Scott Benner, 17, Boyertown, Pa., and Howard Miller, 20, Havertown.

ISOTOPE FOUND

ROCHESTER (Reuters) — A deadly cobalt-60 isotope, missing from a factory in this English city for more than two weeks, has been found on vacant land behind a housing subdivision. A 32 - year - old man has been charged with breaking into the factory and stealing it, police said Saturday. They had warned that brief contact with it might cause death.

DISCUSS UN PROBLEMS

LONDON (Reuters) — Eirene White, Britain's new minister of state for foreign affairs, will hold talks May 19-20 in Ottawa with Canadian ministers on United Nations problems such as the future and financing of UN peacekeeping operations; the UN force in Cyprus; aspects of the Rhodesia independence crisis; questions before the UN committee of 24 on the ending of colonialism and possibly disarmament and Viet Nam.

PROTEST WAR

TORONTO (CP)—About 300 demonstrators marched Saturday from Queen's Park to city hall to protest the use of Canadian weapons in the Vietnamese war. Speakers at a rally protested what they called Canada's indirect involvement in the Asian conflict. They said Canadian arms are being used by U.S. troops to kill innocent Vietnamese civilians.

Consumer Credit Legislation Is Enacted In Nova Scotia

By PIERRE VENIOT

HALIFAX (CP) — The Nova Scotia government has drawn up blueprints for the rest of Canada by enacting unique legislation in the field of consumer credit.

The government has taken heed of a royal commission report to regulate advertising of the credit industry.

Retail, loan and mortgage companies will be required to avoid advertising's many - hued shades in favor of direct black and white selling by disclosing the actual interest charged in terms of dollars and cents.

"The legislation," says provincial Secretary Gerald Doucet, "is to provide the consumer with a knowledge of the cost of borrowing money and buying on credit."

One bill subject to proclamation requires all credit-grantors or money - lenders to register with the registrar of credit, an office created in 1965 on the basis of the Moreira commission's report.

SAYS MANY COMPLAINTS

Registrar Deric-Burton of Halifax, a chartered accountant, says "There is a fair volume of complaints—almost one a day.

"A lot of people have been unbelieving when we told them the cost of their borrowing was 25 per cent per annum."

Mr. Martin's duties include supervision of credit granting in the province and suggestions of new regulations to the cabinet.

He has the power to suspend or cancel any registration for violation of the legislation which carries fines up to $25,000.

"The primary purpose of the legislation," he says, "is to protect the consumer from himself —he is not as sophisticated as business."

Mr. Doucet says the government is working on regulations to prescribe mathematical formulas to be used by the credit industry in showing the cost of borrowing.

The industy said in a brief to the government it is physically impossible and administratively unworkable to express the cost of loans in terms of percentages per year, another aspect of the legislation.

PLAN NEW COUNCIL

Within two weeks an advisory council of credit industry representatives will be set up to forward suggestions to the government before the final decision is reached on initiating more legislation.

The government now has no intention of setting a ceiling on interest charges, Mr. Doucet says, nor is it in the midst of a witch-hunt.

"Without consumer credit today," he says, "our economy could not survive. It is a good thing in itself, but there have been so few controls that abuses exist in the field."

Another bill, also subject to proclamation, says a mortgage agreement would not come into force until 24 hours after the consumer had been given a statement showing its particulars.

The Unconscionable Transactions Act is expanded to empower courts to rewrite the terms of an excessive and harsh loan agreement.

BINGO BANNED

HULL, Que. (CP)—Provincial police here have been instructed to close all bingo games in the next few weeks, it was reported Saturday. Bingos are held almost weekly in most parish halls here. The instructions were received from the Quebec justice department.

GRAVES RISE UP

MARKET DRAYTON, England (CP)—The Graves family is buried under a grave problem. They want to sell their house but prospective buyers just laugh and never make a firm offer. The Graves' house, called Tombstone View, is on Cemetery Road and overlooks the graveyard.

KEEP IT STRAIGHT

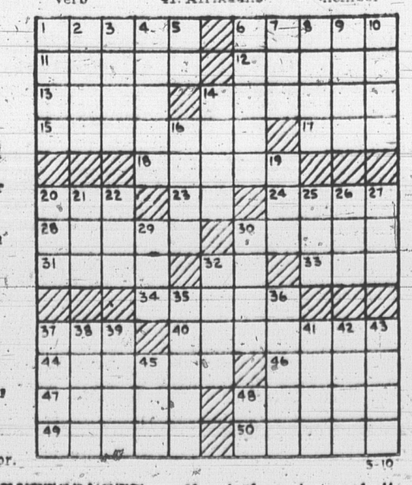
MAIDSTONE, England (CP) The Kent Naturalists' Trust changed its name to the Kent Trust for Nature Conservation because would - be members were confused. The president, Lord Brabourne, explained indignantly, "They thought we were a nudist club."

RIPLEY'S BELIEVE IT OR NOT

DAILY CROSSWORD

ACROSS
1. Navigates
6. Spanish card game
11. Clear
12. Sperm cell
13. Olympian warmonger
14. Wander
15. French chemist
17. Capitol fellow: abbr.
18. Lustrous
20. Beret
23. Music note
24. Mr. One
28. Maxim
30. Kind of tire
31. Femur or tibia
32. Scoreless tie
33. Still
34. Kind of opera
37. Vichy, for one
40. Its capital is Zagreb
44. Lassie, for one
46. Jargon
47. Of an area
48. Tranquillity
49. Indigent
50. Size of drawing paper

DOWN
1. Cuff
2. Emanation
3. Freezes
4. Rosters
5. Coyote State: abbr.
6. Mountains in Missouri
7. Baby tender
8. Cuts, as the hair
9. Irritate
10. Primeval abode
14. Govern
16. Where the Dail sits
19. Bark
20. Hansom
21. Noise
22. Maneuver a camera
25. Kind of nursery
26. Familiar verb
27. Satisfied
29. Harden
30. London district
32. Monster
35. In an aloof manner
36. Musical direction for silence
37. Scrutinize
38. Skin opening
39. Nautical term
41. Afrikaans
42. Peruvian Indian
43. Sweetsop
45. Youth
48. Family member



Yesterday's Answer

SUEE GALA
FINER AGORA
AGINI MULIP
LO CAP LISE
SR ERIN TA
END NOMIAN
AMENDED
BEWARE EGO
OE OEMS SA
AFAR ROT AL
RENOS SOME
STILLE EELS
ELLA SEES

CONTRACT BRIDGE

By B. JAY BECKER

South dealer.
East-West vulnerable.

	NORTH	
	♠ J 10 8 6 3	
	♥ 8 6 5	
	♦ K J 10	
	♣ A J	
WEST		EAST
♠ K		♠ —
♥ 3 2		♥ A K Q J 9
♦ Q 6 4		♦ 9 7 5 2
♣ 9 8 7 5 4 3 2		♣ K Q 6
	SOUTH	
	♠ A Q 9 7 5 4 2	
	♥ 10 7	
	♦ A 8 3	
	♣ 10	

The bidding:

South	West	North	East
1 ♠	Pass	3 ♠	4 ♥
4 ♠			

Opening lead—three of hearts or another suit, which presents declarer with a ruff and discard.

There is a certain amount of guesswork connected with the play of the cards, but some of the so-called guesses faced by declarer can be resolved by careful play.

West was in four spades and West led a heart. East cashed two hearts and continued with a heart. When South ruffed, West overruffed with the only missing trump, the king.

West then led a club, taken by the ace. Declarer, having lost three tricks, now had to guess the location of the queen of diamonds to make the hand. He could finesse in either direction.

Declarer reasoned that East, having entered the bidding at the four level, was more likely to have the queen. He therefore led the king of diamonds and then finessed the jack. West took the queen for the setting trick.

South was unlucky that West had the king of spades instead of East, and he was similarly unlucky to find West with the queen of diamonds, since the indications were that East was more likely to have that card.

Nevertheless, bad luck and all, South should have made the contract. Unwittingly, he had subjected himself to a guess situation which he could easily have avoided. He had a sure thing working for him which no lie of the cards could overcome if he had taken full advantage of the opportunity.

At trick three he should have ruffed the heart with the ace of spades, even though this would have amounted to conceding a trump trick without making any effort at all to avoid its loss.

South then leads a club to the ace and ruffs the jack. He next leads a trump, not caring which defender wins the trick.

The player with the king of spades now has the choice of returning a diamond, which eliminates the guess for the queen, or another suit, which presents declarer with a ruff and discard.

DAILY CRYPTOQUOTE — Here's how to work it:

A X Y D L B A A X R
is L O N G F E L L O W

One letter simply stands for another. In this sample A is used for the three L's, X for the two O's, etc. Single letters, apostrophes, the length and formation of the words are all hints. Each day the code letters are different.

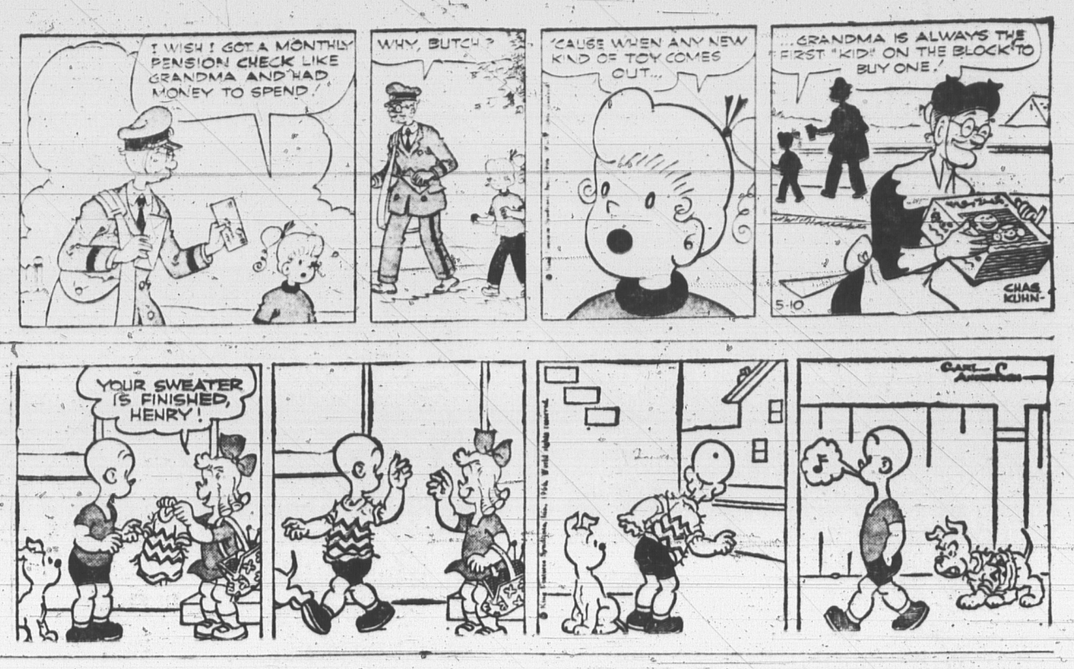
A Cryptogram Quotation

K OKR OKN VPP IBJ CIFV JBZUH SBPV JYCI RB PNFV, UBBL JYCI CIYRP PKZV.—V I K L P V T P K Z P

Yesterday's Cryptoquote: THE DOING EVIL TO AVOID AN EVIL CANNOT BE GOOD.—SCHILLER

(© 1966, King Features Syndicate, Inc.)

GRANDMA HENRY



ETTA KETT

SECRET AGENT X-9

MICKEY MOUSE

THE LONE RANGER

NUBBIN

JOE PALOOKA

MUGGS & SKEETER

L'IL ABNER