

LAND RECLAMATION STATISTICAL UPDATE

1985 - 1995

LAND RECLAMATION AWARDS

The 1992 United Nations Local Government Honors Award

The United States 1992 Chevron Conservation Award

The Government of Canada Environmental Achievement Award, 1990

The 1990 Lieutenant Governor's Conservation Award from the Conservation Council of Ontario

The Aborigicultural Award of Merit, 1990, from the International Society of Aborigiculture Ontario Inc.

The Community Improvement Award, 1986, from the Ontario Horticultrual Association.

TABLE 16 (Continued)
LAND RECLAMATION REVENUE SOURCES 1985-1990

REVENUE SOURCE	1985	1986	1987	1988	1989	1990	TOTAL TO DATE 78-90
Summer Canada (Young Canada Works Program) Canada Employment & Immigration Commission	28,871	13,772	16,495	12,668		7,250	2,274,562
Ontario Ministry of Northern Affairs/Northern Development and Mines	75,000	57,139	75,000	75,000	36,088	38,911	842,897
Regional Municipality of Sudbury	114,970	45,627	44,681	73,271	36,181	80,000	847,956 763,290 ¹
INCO Limited ¹	10,000	10,000	10,000	6,400	10,000	25,000	91,400 ¹
Private Donations ¹	290						2,290
Canada Community Development Program Canada Employment & Immigration Commission							116,906
ILAP/Canada Works							182,835
UI/IC Forestry Sector Program Canada Employment & Immigration Commission Canadian Forestry Service		35,924					70,724 25,130
Mining Sector Work Program Canada Employment & Immigration Commission							1,184,400
Ontario Ministry of Natural Resources							625,215
Canada Ontario Employment Development Program Canada Employment & Immigration Commission							3,115,732
Ontario Ministry of Labour							3,115,732
Ontario Youth Corps Program	348,521						348,521
Futures ¹		46,000	53,936			21,800	121,736 ¹
Falconbridge Limited ¹		2,000	2,000	2,000	1,200	6,000	13,200 ¹
Ontario Hydro ¹¹			26,200 ¹¹				26,200
Section 38/25 Program Canada Employment & Immigration Commission			141,971			110,040	252,011
TOTAL REVENUES	577,652	164,462	370,283	169,339	83,469	289,001	14,020,737

Source: Audited Regional Financial Statement 1978, 1979, 1980, 1981, 1982 - R.M.S.
Accounting Department

Land Reclamation Annual Reports 1978 - 1982

* Audited Financial Statement

1. Inco Limited donated \$7,675, \$2,830, \$10,500, \$10,000 and \$10,000 in 1978, 1979, 1980, 1981 and 1984 respectively in material which was purchased by them and supplied directly to the program.
2. Falconbridge Limited donated \$500, \$540, \$4,000, \$5,000, \$4,500 and \$2,550 in 1978, 1979, 1980, 1981, 1983 and 1984 respectively in material which was purchased by them and supplied directly to the program.
3. Figure excludes \$8,175 for the Borgia Park Project.
4. Figure excludes \$88,049 for the Biological Lagoon Project.
5. Figure excludes \$6,091 for the Biological Lagoon Project.
6. Figure includes individuals normal UIC entitlement as well as CEIC Supplement.
7. Figure includes \$11,074.94 from 1983.
8. This figure was originally committed by the Regional Municipality of Sudbury but subsequently covered by a grant from the Ontario Ministry of Municipal Affairs and Housing.
9. Futures costs includes only capital cost of the grant. The wage cost of the program was paid to the employees directly by Futures.

Land Reclamation Program Achievements 1978 - 1990

Year	Amount Limed (Hectares)	Amount Fertilized (Hectares)	Amount Seeded (Hectares)	Amount Site Improved (Hectares)	Number Of Trees Planted	Other Achievements As Specified
1978	114.8	114.8	114.8	206.3	-	30,000 pH and nutrient samples. 365 kilograms of native seed collected. 11,000 trees, shrubs and plants transplanted. 122 composting test plots.
1979	478.6	466.6	420.2	295.9	4,250	420 hectares sampled for pH. 425 kilograms of native seed collected. 20,000 trees, shrubs and plants transplanted. Monitoring and assessment begun
1980	331.0	299.3	299.3	258.7	1,300	Land reclamation data assembled and computer coded. 2,000 pH samples taken. 5 Year Land Reclamation Plan developed.
1981	208.0	173.4	173.4	9.8	4,600	5 Year Plan updated. Monitoring and assessment records processed 29 research plots established.
1982	362.4	342.4	305.2	199.2	-	Dismantled 2.4 km of abandoned trestle and improved tailings wildlife area
1983	1,084.0	934.6	935.4	-	228,080	Established 10 wildflower experimental test plots
1984	57.7	188.4	215.9	7.5	149,350	Timber cruised 3,213 hectares. Transplanted 400 trees. Updated all mapping records. Compiled second 5 year grassing plan.
1985	112.0	106.0	106.0	-	154,600	Native shrub seed sources identified. Land Reclamation Summary Report 1978-1984 published
1986	24.0	30.0	30.0	-	80,300	5 Year Tree Planting Plan developed. Monitoring survey of trees planted 1978-1985 completed. Forest management report prepared
1987	59.5	64.7	64.7	-	264,880	Seeds of 15 species of trees or shrubs collected for diversity and future outplanting. Seed collection report prepared
1988	34.8	34.8	34.8	-	118,885	Planted 8,300 shrubs. Monitored and assessed pasT work. Wildlife habitat improvement report prepared
1989	7.5	12.2	12.2	-	65,740	
1990	45.5	65.3	33.8	-	128,650	Planted 8,125 shrubs. Developed landscape plan for cloverleaf
TOTALS	2,919.8	2,832.5	2,745.7	977.4	1,200,635	

TABLE
1985 LAND RECLAMATION PROGRAM SUMMARY

Type of Project	Number of Persons Employed	Number of Work Weeks	Labour Cost	Capital Cost	Total Cost	Program Accomplishments
1. Tree Planting Grassing and Greening (Ontario Youth Corps)	99	2376	378,759	141,053	519,812	Planted 154,600 bare root tree seedlings; limed 137 hectares, fertilized 128.5 hectares and seeded 128.5 hectares of barren or semi- barren area
2. Grassing and Greening Challenge 85 (Students)	20	220	40,984	7,751	48,735	Limed 20 hectares, fertilized 18 hectares and seeded 18 hectares of barren or semi-barren area
3. Timber Analysis Tree Planting Plan (Job Development)	4	15	8,757	348	9,105	Project just started December of 1985 and carried into 1986 (see 1986)
4. Office Support Staff/Administration Supervision	6	149	*	*	*	Provided office support e.g. record keeping and payroll, mapping and field supervision
TOTALS	129	2,760	428,500	149,152	577,652	

SOURCE: Regional Financial Statements

* Dollar contributions are reflected in costs listed for items 1 and 2

TABLE

1986 LAND RECLAMATION PROGRAM SUMMARY

Type of Project	Number of Persons Employed	Number of Work Weeks	Labour Cost	Capital Cost	Total Cost	Program Accomplishments
1. Tree Planting Grassing and Greening (Futures)	20	321	32,424+	49,116	81,540	Planted 80,300 bare root tree seedlings; limed, fertilized and seeded 30 hectares of barren or semi-barren area
2. Tree Monitoring (Challenge 86- Students)	5	75	29,473	14,342	43,815	Monitored trees previously planted and compiled: a) General survey of trees 1978-1985, July 1986 and b) 1986 Tree Monitoring Report, August 22, 1986
3. Timber Analysis and Tree Planting Plan (Canadian Forestry Service - Job Development)	4	95	34,576	4,531	39,107	Developed and compiled three tree reports: a) Forest Management Analysis For Select Lands Within the Regional Municipality of Sudbury - May 1986 b) Proposed Tree Planting Plan October 20, 1986 c) Trees and Shrubs for Sudbury October 20, 1986
4. Office Support Staff/ Administration Supervision	2	34	*	*	*	Provided office support e.g. record keeping, payroll and mapping
TOTALS	31	525	96,473	67,989	164,462	

SOURCE: Regional Financial Statements

* Dollar contributions are reflected in costs listed for items 1 and 3

+ Additional wages paid directly to employee by Futures

TABLE
1987 LAND RECLAMATION PROGRAM SUMMARY

Type of Project	Number of Persons Employed	Number of Work Weeks	Labour Cost	Capital Cost	Total Cost	Program Accomplishments
1. Tree Planting Grassing and Greening (Section 38)	29	623	144,721	65,278	209,999	Planted 191,720 bare root tree seedlings and 71,810 paper pot seedlings; limed fertilized and seeded 65 hectares of barren or semi-barren area
2. Tree Planting (Ontario Hydro)	22	156	34,424	2,945	37,369	(As above for tree planting component)
3. Tree Planting Grassing and Greening (Futures)	22	356	36,662 ⁺	42,275	78,937	(As above for tree planting and grassing)
4. Monitoring (Challenge 87)	4	64	34,238	9,740	43,978	Monitored trees previously planted and compiled: a) General survey of Trees- June 1987 b) 1987 Tree Monitoring Report - August 1987
5. Seed Collection (Challenge 87)	3	68	*	*	*	Identified and collected seeds from 15 varieties of trees and shrubs. Compiled 1987 Seed Collection Report - November 1987
6. Office Support Staff/ Administration	2	60	°	°	°	Provided office support e.g. record keeping, payroll, project management
TOTALS	82	1,327	250,045	120,238	370,283	

SOURCE: Regional Financial Statements

+ Additional wages paid directly to employee by Futures

* Dollar contributions are reflected in costs listed for item 4

° Dollar contributions are reflected in costs listed for item 1

TABLE

1988 LAND RECLAMATION PROGRAM SUMMARY

Type of Project	Number of Persons Employed	Number of Work Weeks	Labour Cost	Capital Cost	Total Cost	Program Accomplishments
1. Tree Planting Grassing and Greening	43					Planted 103,975 bare root and 14,910 paper pot tree seedlings. Limed, fertilized and seeded 35 hectares of barren or semi- barren area
2. Tree Mapping	1					Compiled future planting maps for each tree species
3. Monitoring (Challenge 88)	4					Planted 8,300 shrubs and monitored and assessed past tree planting
4. Wildlife (Challenge 88)	2					Investigated shrub suitability for wildlife and recommended shrub planting for selected locations
5. Office Support Staff/ Administration	1					Provided office support e.g. record keeping, payroll

TOTALS

SOURCE: Regional Financial Statements

* Dollar contributions are reflected in costs listed for item 1

LAND RECLAMATION GRASS SEED MIXTURE
(% Composition by Weight)

[illegible]

TABLE 12
LIST OF LAND RECLAMATION PROJECTS INITIATED
AND YEARS IN WHICH EACH WAS OPERATIONAL

PROJECTS	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Grassing and Greening	X	X	X	X	X	X	X	X	X	X	X
Site Improvement (1)	X	X									
pH & Nutrient Sampling (2)	X	X									
Transplanting (3)	X	X									
Native Seed Collection (4)	X	X								X	
Experimental Composting (5)	X										
Monitoring and Assessment (6)		X							X	X	X
Data Processing and Analysis (7)				X	X						
INCO Tailings Improvement					X						
Reclamation Treatment Research				X							
Tree Planting											
Planning and Mapping (8)			X	X	X	X	X	X	X	X	X
Wildflower Experimentation (9)						X					
Forest Assessment											
Administration (10)	X	X	X	X	X	X	X	X	X	X	X
Borgia Park Improvements(11)	X										
Biological Lagoon (11)			X								
Timber Management Plan									X		

- (1) In 1980, 1981 and 1982, Damaged Site Improvement was carried out by the grassing and greening project.
- (2) These activities were undertaken by the Planning and Mapping group in 1980 - 1983
- (3) In 1980 and 1981 transplanting activities were undertaken by grassing and greening crews.
- (4) Native Seed Collection was discontinued after 1979 as the cost of collection was too high.
- (5) Composting activities were not continued after 1978 because practical application of the project at an operational scale within the Region seemed limited in comparison to grassing methods.
- (6) After 1979 most Monitoring and Assessment has been carried out through Laurentian University's Biology Department.
- (7) Data Processing and Analysis is closely linked with the monitoring and assessment project and was incorporated with it in 1982.
- (8) Planning and Mapping activities are a subset of project administration and comprise progress updates, publicity, pH sampling and project mapping.
- (9) Wildflower experimentation was undertaken as part of the grassing and greening program.
- (10) Administration comprised all office support personnel as well regional employees assigned to the project.
- (11) Borgia Park Improvements and the Biological Lagoon were projects undertaken under the supervision of land reclamation personnel, however, for purposes of his report they are not considered as land reclamation activities.

LAND RECLAMATION PROGRAMME ACHIEVEMENTS 1978-1989

YEAR	AMOUNT LIMED (hectare)	AMOUNT FERTILIZED (hectare)	AMOUNT SEEDED (hectare)	AMOUNT SITE IMPROVED (hectare)	NUMBER OF TREES PLANTED	OTHER ACHIEVEMENTS
1976	114.6	114.6	114.6	206.3		30,000 pH and nutrient samples. 365 kg of native seed collected. 11,000 trees, shrubs and plants transplanted. 122 composting test plots.
1979	476.6	466.6	420.2	295.9	4,250	420 hectares sampled for pH. 425 kilograms of native seed collected. 20,000 trees, shrubs and plants transplanted. Monitoring and assessment begun.
1980	331.0	299.3	299.3	258.7	1,300	Land reclamation data assembled and computer coded. 2,000 pH samples taken. 5 Year Land Reclamation Plan developed.
1981	208.0	173.4	173.4	9.6	4,600	5 Year Plan updated. Monitoring and assessment records processed. 29 research plots established.
1982	362.4	342.4	305.2	199.2	-	Dismantled 2.4 km of abandoned trestle and improved tailings wildlife area.
1983	1,084.0	934.6	935.4	-	226,060	Established 10 wildflower experimental test plots.
1984	57.7	186.4	215.9	7.5	149,350	Timber cruised 3,213 hectares. Transplanted 400 trees. Updated all mapping records. Compiled second 5 year grassing plan.
1985	112.0	108.0	108.0	-	154,600	Native shrub seed sources identified. Land Reclamation Summary Report 1978-84 published.
1986	24.0	30.0	30.0	-	60,300	5 Year Tree Planting Plan developed. Monitoring survey of trees planted 1978-1985 completed. Forest management report prepared.
1987	59.5	64.7	64.7	-	264,860	Seeds of 15 species of trees or shrubs collected for diversity and future outplanting. Seed collection report prepared.
1988	34.6	34.6	34.6	-	116,685	Planted 6,300 shrubs. Monitored and assessed past work. Wildlife habitat improvement report prepared.
1989	7.5	12.2	12.2	-	65,740	
Totals	2,674.3	2,767.2	2711.9	977.4	1,071,985	

TABLE 14
LAND RECLAMATION EMPLOYMENT 1978 - 1988

NUMBER OF EMPLOYEES												TOTAL
PROJECT	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	EMPLOYED
Administration												
- Office Staff	3				4(S) 4(U)	4(S) 19(U)	5(S) 14(U)	1(U)	1(U)	1(U)	1(U)	57
- Mapping and Planning			6	6	9(S)	5(S)	8(S)			1(S)	3(S)	38
- Supervisory Staff								7	2	8		17
Grassing & Greening	82	165	209	191	160(S) 196(U) 20(U)	88(S) 1,137(U)	42(S) 23(U)	18(S)		20(S)	4(S)	2,355
Damaged Site Improvement	40	86			50(U)							176
Transplanting	6	18										24
Native Seed Collection	20	29								3(S)		52
Monitoring and Assessment		15	3	4					6(S)	4(S)	4(S)	36
pH and Nutrient Sampling	15	12										27
Experimental Composting	8											8
Tailings Area Improvement					21(U)							21
Tree Planting						24(U)	77(U)	99(U)*	18(U)	45(U)	43(U)*	306
Reclamation Treatment Research				6								6
Timber Cruising							2	4(U)	4(U)			10
TOTAL:	174	325	218	207	464	1,277	171	129	31	82	55	3,133

¹ Only employee positions approved are indicated. The number of individuals who worked in the program is actually higher than the numbers indicated due to employee turnover and replacement. In 1982, 1983, the student (S) and unemployed (U) labour force components are indicated. Prior to 1982, only students were employed.
* Also worked on grassing and greening.

TABLE 15
LAND RECLAMATION EMPLOYMENT 1978 - 1988
NUMBER OF WORK WEEKS

PROJECT	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	TOTAL
Administration												
- Office Staff	48	-	-	-	64	70(S) 348(U)	82(S) 298(U)	149	34	69		
- Mapping and Planning			84	84	144	73	101(S)		55			
Grassing & Greening	624	1,155	2,926	2,674	2,272(S) 3,358(U) 231(U)	1,198(S) 18,520(U)	574(S) 460(U)	1,804	161	569		
Damaged Site Improvement	524	1,118			1,093(U)							
Transplanting	72	234										
Native Seed Collection	141	203								68		
Monitoring and Assessment		195	42	56					75	64		
pH and Nutrient Sampling	192	156										
Experimental Composting	105											
Tailings Area Improvements					484(U)							
Tree Planting						252(U)	707(U)	792	160	566		
Reclamation Treatment Research				84								
Timber Cruising							40	15	40			
TOTAL	1,706	3,061	3,052	2,898	7,646	20,461	2,262	2,760	525	1,327		

TABLE 16
LAND RECLAMATION REVENUE SOURCES 1985-1988

REVENUE SOURCE	1985	1986	1987	1988	TOTAL TO DATE
Summer Canada (Young Canada Works Program) Canada Employment & Immigration Commission	28,871	13,772	16,495		
Ontario Ministry of Northern Affairs/Northern Development and Mines	75,000	57,139	75,000		
Regional Municipality of Sudbury	114,970	45,627	44,681		
1 INCO Limited	10,000	10,000	10,000		
2 Private Donations	290				
Canada Community Development Program Canada Employment & Immigration Commission					
ILAP/Canada Works					
UIoIC Forestry Sector Program Canada Employment & Immigration Commission Canadian Forestry Service		35,924			
Mining Sector Work Program Canada Employment & Immigration Commission Ontario Ministry of Natural Resources					
Canada Ontario Employment Development Program Canada Employment & Immigration Commission Ontario Ministry of Labour					
Ontario Youth Corps Program	348,521				
Futures		(46,000)	53,936		
Falconbridge Limited		2,000	2,000		
Ontario Hydro			26,200		
Section 38 Program Canadian Employment and Immigration Commissioner			141,971		
TOTAL REVENUES	577,652	164,462	370,283		

Source: Audited Regional Financial Statement 1978, 1979, 1980, 1981, 1982 - R.M.S. Accounting Department
Land Reclamation Annual Reports 1978 - 1982

* Audited Financial Statements

1. Inco Limited donated \$7,675, \$2,830, \$10,500 \$10,000 and \$10,000 in 1978, 1979, 1980, 1981 and 1984 respectively in material which was purchased by them and supplied directly to the program
2. Falconbridge Limited donated \$500, \$540, \$4,000, \$5,000, \$4,500, \$2,500 and \$2,000 in 1978, 1979, 1980, 1981, 1983, 1984 and 1985 respectively in material which was purchased by them and supplied directly to the program.
3. Figure excludes \$8,175 for the Borgia Park Project
4. Figure excludes \$88,049 for the Biological Lagoon Project
5. Figure excludes \$6,091 for the Biological Lagoon Project
6. Figure includes individuals normal UIC entitlement as well as CEIC Supplement
7. Figure includes \$11,074.94 from 1983
8. This figure was originally committed by the Regional Municipality of Sudbury but subsequently covered by a grant from the Ontario Ministry of Municipal Affairs & Housing
9. In addition to its monetary contribution Ontario Hydro donated 100,000 tree seedlings

TABLE 17
LAND RECLAMATION PROGRAM EXPENDITURES 1985 - 1988

EXPENDITURE CATEGORIES	1985	1986	1987	1988	TOTAL TO DATE
Salaries and Benefits	427,510	96,473 *	88,268 161,777*		
Office Expense	1,803		1,718		
Equipment	44,032	24,232	33,494		
Vehicle Rental and Maintenance					
Fuel	5,954	4,363	5,862		
Transportation	51,709	21,035	42,001		
Materials	*	*	*		
Lime	27,236	6,219	10,595		
Fertilizer	6,379	4,237	7,032		
Seed	10,566	3,857	4,650		
Trees					
Purchased Services	990	3,010	14,886+		
Miscellaneous	1,473	1,036			
TOTAL	577,652	164,462	370,283		

*Paid directly by Futures

*Included in equipment cost

+Includes training and supervision replacement costs

VEGETATION ENHANCEMENT TECHNICAL ADVISORY COMMITTEE MEMBERSHIP

1973 - 1988*

<u>NAME</u>	<u>AGENCY</u>	<u>PERIOD ACTIVE</u>
1. D. Balsillie	Ontario Ministry of Environment	1978-1979
2. N. Barnett	Planning & Development Dept. R.M.S.	1973-1980
3. P. Barry	Sudbury District Fish & Game Protective Assoc.	1973-1979
4. P. Beckett	Biology Dept. Laurentian University	1978-1988
5. D. Beirnes	Planning & Development Dept. R.M.S.	1978-1979
6. L. Bigger	Parks & Development Dept. City of Sudbury	1978; 1984-88
7. D. Bird	Poupore Lumber	1985-1988
8. A. Bonnis	Nickel District Conservation Authority	1978-1979
9. C. Brankley	Sudbury 2001	1978-1980
10. D. Burke	Landscape Architect	1984-1988
11. M. Carmichael	Sudbury Hydro	1987-1988
12. J. Carruthers	Planning & Development Dept. R.M.S.	1978
13. J.H. Christiansen	Industrial Waste, Falconbridge Nickel Mines Limited	1973-1976
14. G.M. Courtin	Biology Dept., Laurentian University	1973-1976
15. D. Crawford	Ontario Hydro	1984-1988
16. R. Demore	Operations & Maintenance, R.M.S.	1974-1975
17. B. Dreisinger	Agricultural Department, INCO	1985
18. R. Dutrisac	Engineer, Town of Valley East	1980-1983
19. B. Edwards	ICG Utilities	1987-1988
20. T. Fasciano	Planning & Development Dept., R.M.S.	1977-1988
21. D. Faubert	Building Controls Dept., R.M.S.	1978-1979
22. N. Fawcett	Councillor, Town of Capreol	1980
23. A. Fex	Regional Councillor, R.M.S.	1978
24. G. Fievoli	Regional Councillor, R.M.S.	1983
25. G. Foley	Regional Councillor, R.M.S.	1981-82; 86-88
26. R. Frank	Drafting Dept., R.M.S.	1978-1982
27. B. Fryer	Parks & Recreation Dept., City of Sudbury	1973-1975
28. J. Gardner	Parks & Recreation Dept., City of Sudbury	1974-1975
29. D. Gougeon	Public Affairs Dept., INCO	1973-1975
30. S. Grillanda	Chemistry Dept., Cambrian College	1983
31. B. Hett	Parks & Recreation Dept., City of Sudbury	1978-1982
32. M. Hickmott	Planning & Development Dept., R.M.S.	1978-1981
33. P. Hobbs	Canada Employment Development Branch	1978-1979
34. J. Hone	Ontario Ministry of Northern Affairs	1978-1984
35. D. Hughes	Planning & Development Dept., R.M.S.	1981
36. J. Hughes	Planning & Development Dept., R.M.S.	1980
37. W. Kienapple	Town of Valley East	1974-1975
38. S. Korpela	Regional Councillor, R.M.S.	1979-1980
39. E. Kraker	Forester, Ontario Ministry of Natural Resources	1973-1974
40. D. Lake	Chemistry Dept., Cambrian College	1978-1979
41. T. Latreille	Sudbury Horticultural Society	1975
42. B. Lautenbach	Planning & Development Dept. R.M.S.	1978; 1982-88

43.	D. Liske	Marchland Holdings, City Centre	1975-1977
44.	T. Lloyd	Manager, Poupore Lumber Limited	1973-1974
45.	M. Luoma	Metro Centre Management Board	1978-1980
46.	S. Makela	Sudbury Horticultural Society	1988
47.	P. Martin	Martin's Potatoes Inc.	1976-1878
48.	J. McCreedy	Forester, Ontario Ministry of Natural Resources	1977-1978
49.	P. McCubbin	Ontario Ministry of the Environment	1986-1988
50.	J. McDonald	Regional Councillor, R.M.S.	1984-1985
51.	D.E. McHale	District Manager, Ont. Ministry of Natural Resources	1973-1975
52.	W.D. McIlveen	Sudbury Horticultural Society, Min. of Environment	1978-1985
53.	G.J. Michalak	Parks & Recreation Dept. Town of Rayside-Balfour	1975
54.	R. Michelutti	Falconbridge Limited	1978-1988
55.	J. Miller	Land Reclamation Coordinator, R.M.S.	1981-1988
56.	J. Negusanti	Ontario Ministries Natural Resources & Environment	1978-1988
57.	S. O'Brien	Nickel District Conservation Authority	1976-1978
58.	T. Peters	Agriculture Dept., INCO	1973-1988
59.	H. Poulin	Town of Rayside-Balfour	1973
60.	H. Proudley	Engineering Dept., City of Sudbury	1978
61.	M. Racine	Canada Employment Development Branch	1979-1980
62.	N. Roberge	Rayside-Balfour Beautification Committee	1974-1975
63.	P. Sajatovic	Nickel District Conservation Authority	1981-1988
64.	J. Savage	Agricultural Dept., INCO	1977-1988
65.	S. Schillemore	Nickel District Conservation Authority	1979-1981
66.	B. Squirrell	Town of Walden	1973;1980-81
67.	A. St. Onge	Town of Rayside-Balfour	1981
68.	L. Tucar	Environmental Horticultural Prgm. Cambrian College	1988
69.	J. Vining	Forester, Ontario Ministry of Natural Resources	1978-1988
70.	D. Welsh	Canada Employment Development Branch	1979
71.	C. Whitelaw	Sudbury Ornithological Society	1988
72.	K. Winterhalder	Biology Dept. Laurentian University	1973-1988
73.	M. Wiseman	Falconbridge Limited	1987-1988
74.	D. Young	Agricultural Dept. INCO	1974-1975
75.	J.D. Yuill	Nickel District Conservation Authority	1973-1974

APPENDIX C

TABLE 8 AREA RECLAIMED - 1985

Area Location	Limed	Fertilized	Seeded	Workforce
	(Area completed in Hectares)			
1. Murray Mine	23.4	23.4	23.4	O.Y.C.*
2. Silver Lake and Southwest Bypass	13.8	13.8	13.8	O.Y.C.
3. Long Lake and Ester Road	30.2	30.2	30.2	O.Y.C.
4. Hannah Lake	9.4	9.4	9.4	O.Y.C.
5. Wahnapiatae	8.3	8.3	8.3	O.Y.C.
6. Highway 17 West	1.2	1.2	1.2	O.Y.C.
7. Bancroft Drive at Chisholm Street	12.1	5.6	5.6	O.Y.C.
8. Falconbridge at Boucher Lake	9.1	9.1	9.1	Students
9. Falconbridge at Norway Lake	4.6	4.6	4.6	Students
TOTAL	112.1	105.6	105.6	

*O.Y.C. - Ontario Youth Corps

APPENDIX C

TABLE 9 AREA RECLAIMED - 1986

Area Location	Limed	Fertilized	Seeded	Workforce
	(Area completed in Hectares)			
1. Copper Cliff - Site 103	4.5	4.5	4.5	
2. Copper Cliff - Site 25	0.9	0.9	0.9	
3. Copper Cliff - Sites 26 and 27	0.3	0.3	0.3	
4. Copper Cliff - Site 104	0.7	0.7	0.7	
5. Copper Cliff - Site 105	2.6	2.6	2.6	
6. Coniston - Site 75	5.3	11.3	11.3	
7. Boucher Lake, Falconbridge	1.2	1.2	1.2	
8. Highway 17E-Coniston - Site 52	8.5	8.5	8.5	
TOTAL	24.0	30.0	30.0	

APPENDIX C

TABLE 10 AREA RECLAIMED - 1987

Area Location	Limed	Fertilized	Seeded	Workforce
	(Area completed in Hectares)			
1. Dupont St-CPR	-	5.2	5.2	
2. LaSalle Boulevard (Site 53)	8.0	8.0	8.0	
3. Attlee Avenue-Woodbine (Site 39)	9.7	9.7	9.7	
4. Harrison Drive (Site 81)	7.6	7.6	7.6	
5. St. Charles Lake Road (Site 07)	3.4	3.4	3.4	
6. Highway 69N (Site 44)	0.9	0.9	0.9	
7. Highway 69N (Site 43)	0.9	0.9	0.9	
8. Highway 17E-Hydro Road - Site 130)	17.0	17.0	17.0	
9. Highway 17E Water Treatment Plan (Site 143)	3.6	3.6	3.6	
10. West End (Site 54)	1.5	1.5	1.5	
11. West End (Site 62)	0.6	0.6	0.6	
12. West End (Site 79)	0.2	0.2	0.2	
13. Highway 17E (Site 126)	4.9	4.9	4.9	
14. Bancroft and Barry (Site 121)	1.2	1.2	1.2	
TOTAL	59.5	64.7	64.7	

APPENDIX C

TABLE 11 AREA RECLAIMED - 1988

Area Location	Limed	Fertilized	Seeded	Workforce
	(Area completed in Hectares)			
1. Wahnapiatae (Site 40)	12.1	12.1	12.1	Section 38
2. Highway 17 E Coniston near Birch Street	5.7	5.7	5.7	Section 38
3. Wahnapiatae Water Treatment Plant (Area north of plant)	8.9	8.9	8.9	Section 38
4. Wahnapiatae Water Treatment Plant (Hill east of plant)	4.9	4.9	4.9	Section 38
5. Wahnapiatae Water Treatment Plant (South of Highway 17)	0.4	0.4	0.4	Section 38
6. Gloria Street (Coniston)	2.8	2.8	2.8	Section 38
TOTAL	34.8	34.8	34.8	

APPENDIX D

TABLE 4

TREE PLANTING PROGRAM 1985 TREE DISTRIBUTION BY AREA, NUMBER, AND SPECIES

Area Location	Total No. Of Trees	Red Pine	Jack Pine	White Pine	Japanese Larch	White Ash	Red Oak	Black Locust
1. Terry Fox - North	8,500	2,000	1,900					4,600
2. Robinson Lake Area	19,900	14,650		1,000	1,150	2,100		1,000
3. Wahnapiatae	22,000	9,100	12,000		900			
4. Highway 69N	19,550	7,500	11,100	450	500			
5. Curling Club	300			300				
6. Highway 69S	13,900	4,300	8,900		700			
7. Southwest Bypass	24,100	9,800	13,500	200	600			
8. Kelly Lake Area	26,340	7,600	10,340				5,000	3,400
9. Murray Mine	19,510	6,500	9,760	1,050	1,300	900		
TOTAL	154,600	61,600	68,000	3,000	5,000	3,000	5,000	9,000

APPENDIX D

TABLE 5

TREE PLANTING PROGRAM 1986

TREE DISTRIBUTION BY AREA, NUMBER, AND SPECIES

Area Location	Total No. Of Trees	Red Pine	Jack Pine	White Pine	Black Spruce	White Cedar	Red Oak	Black Locust
1. Frood Road South	11,800	5,000		1,500			2,100	3,200
2. Frood Road North	13,000	4,650		2,200	1,100	600	2,250	2,200
3. Coniston Townsite	4,100	2,000	1,000	500			600	
4. Carson/Coniston Road	4,200	2,000		1,000			600	600
5. Wahnapiitae North	20,050	3,650	1,200	50		150	6,600	8,400
6. Robinson/Kelly Lake	5,550	2,400	850	250		2,000	50	
7. Murray Mine	19,600	14,350				1,350	3,900	
8. Miscellaneous	2,000	50					450	1,500
TOTAL	80,300	34,100	3,050	5,500	1,100	4,100	16,550	15,900

APPENDIX D
TABLE 6
TREE PLANTING PROGRAM 1987
TREE DISTRIBUTION BY AREA, NUMBER, AND SPECIES

Area Location	Total No. Of Trees	Red Pine	Jack Pine	White Pine	Norway Spruce	European Larch	Japanese Larch	Eastern		
								White Cedar	Red Oak	Black Locust
1. Wahnapiatae - Site 38	18,600	8,100	6,900	1,800					800	1,000
2. Murray Mine - Site 11	35,600	9,600	11,500	6,800				1,600	3,600	2,500
3. Falconbridge - Site 39	16,750	9,450	6,400	900						
4. Bailey's Corner - Site 15	1,470			1,470						
5. Bailey's Corner - Site 17	18,340	11,500		1,250	5,590					
6. Bailey's Corner - Site 158	1,300	650	650							
7. Bailey's Corner - Site 159	1,100	550	550							
8. Bailey's Corner - Site 161	800			800						
9. Terry Fox - Site 10	4,400		500	200		700			3,000	
10. Ethelbert/White - Site 111	800	400	200						200	
11. Elm Extension - Site 22	11,200	4,800	500	2,200		2,150	1,050		5,600	500
12. LaSalle Extension - Site 9	24,700	7,700		3,300					400	8,100
13. Coniston/Popular - Site 138	2,260	1,160	700	450						
14. Coniston/Edward - Site 141	1,100	450				200				
15. Victoria/Willard - Site 179	8,700	5,200	2,100						1,400	
16. Wembley/St. Michaels - Site 100	950	200	350	200					200	
17. Wembley/St. Michaels - Site 101	3,510	790	1,140	790					790	
18. Lonsdale - Site 27	9,600	3,400	1,050	3,150					2,000	
19. City Centre - Site 125	210	90				60			60	
20. Frood-Lasalle - Site 94	3,000				1,000			2,000		
21. Bruce & Snowdon - Site 144	3,700	2,100		1,050					550	
22. Coniston - Site 13	2,400	400	1,600	400						
23. Copper Cliff - Site 81	1,990	850	570						570	
24. Coniston - Site 140	400									400
25. Garson-Coniston - Site 102	1,960									1,960
26. Water Treatment Plant - Highway 17E - Site 152	2,750									2,750
27. Hannah Lake	970						770			200
28. Highway 17 East	360				200	160				

APPENDIX D

TABLE 6

TREE PLANTING PROGRAM 1987
TREE DISTRIBUTION BY AREA, NUMBER, AND SPECIES

Area Location	Total No. Of Trees	Red Pine	Jack Pine	White Pine	Norway Spruce	European Larch	Japanese Larch	Eastern White Cedar	Red Oak	Black Locus
29. Walford/Regent - Site 96	500	500								
30. Skead Hills - Site 21	5,400	1,800	1,800							
31. Copper Cliff - Site 79	1,400									
32. Norway Lake	450									
33. Boucher Lake	1,000									
34. Kelly Lake Road - Site 48	4,000									
35. Garson/Coniston - Site 4	1,700			4,000					1,000	
36. Kathleen - Site 76	4,140*	1,790*								1,800
37. Wahnapiatae - Site 28/133	7,755*		680*	1,670*						400
38. Long Lake Road - Site 55	5,286*		2,880*	4,875*						450
39. Elm/Big Nickel Mine Rd.-Site 8	15,036*		2,856*	2,430*						1,000
40. Paris/Larch - Site 26	5,140*	6,770*	7,056*	1,210*						
41. Adanac - Site 97-99	6,392*	2,500*	370*	2,270*						
42. Victoria - Site 241	2,970*	2,170*	2,352*	1,870*						1,700
43. Lasalle/Highway 144 - Site 9	9,420*	1,280*	840*	850*						
44. Garson/Coniston Rd. - Site 4	2,693*	5,220*		4,200*						
45. Garson/Coniston Rd. - Site 140	578*		2,493*	200*						
46. Coniston - Site 13	800*		578*							
47. Water Treatment Plant - Highway 17E - Site 152	2,200*	550*								
48. Kingsway - Site 134	2,000*	850*	1,650*							
49. Long Lake Road - Site 55	3,300*		850*	300*						
50. Wahnapiatae - Site 28-133	1,150*	1,150*								
51. Kingsway - Site 153	2,650*	1,150*	350*	1,150*						
TOTAL	264,880	96,420	59,465	50,585	6,790	2,310	2,780	3,600	20,170	22,760

* Paper pot stock

APPENDIX D
TABLE 7

TREE PLANTING PROGRAM 1988
TREE DISTRIBUTION BY AREA, NUMBER, AND SPECIES

Area Location	Total No. Of Trees	Red Pine	Jack Pine	White Pine	White Spruce	Black Spruce	Eastern White Cedar	Black Locust	Tamarack
1. Frood and Lasalle - Site 20	6,050	3,400	2,550					100	
2. Frood Road - Site 113	300	300							
3. Cambrian Heights - Site 120	1,500	1,500							
4. Cambrian Heights - Site 122	500	350	150						
5. Cambrian Heights - Site 123	1,900	800	550	550					
6. Hydro Road-Hwy. 17E - Site 66	6,750	1,900	1,900				450	2,500	
7. Coniston - Site 1	6,750	3,550	2,400	800					
8. Coniston - Site 4	6,450	5,700	750						
9. Coniston - Site 108	950	100	500					350	
10. Coniston - Site 140	800	800							
11. Water Treatment Plant									
Highway 17E - Site 149	2,000		2,000						
12. Southwest Bypass - Site 18	5,425	2,900	2,050	250	125		100		
13. Southwest Bypass - Site 19	8,000	4,300	3,300	400					
14. Garson - Site 268	3,400	1,700	1,000					700	
15. Ontario/Logan - Site 104	200	200							
16. Logan Quinn - Site 106	150	150							
17. Kingsway - Site 129	400	200		200					
18. Kingsway/Third - Site 128	1,650	650		350	650				
19. Kingsway/Third - Site 135	1,350	750		600					
20. Kingsway - Site 155	800	200	400	200					
21. Romford - Site 105	2,850	1,650	1,200					1,400	
22. Romford - Site 235	2,450	1,050						950	
23. Romford - Site 236	1,900	450	500					550	
24. Romford - Site 237	1,200	250	400						
25. Attlee - Site 217	1,100	550		550					
26. San Francisco - Site 219	1,500	550	550	200	200				
27. Levesque/Rheal - Site 136	950	550	400						
28. Moonlight - Site 263	575			575					
29. Delchi Dozzi Hill	550	350		200					
30. Wahnapiatae - Site 28	2,360					950	660	750	

APPENDIX D
TABLE 7
TREE PLANTING PROGRAM 1987
TREE DISTRIBUTION BY AREA, NUMBER, AND SPECIES

Area Location	Total No. Of Trees	Red Pine	Jack Pine	White Pine	White Spruce	Black Spruce	Eastern White Cedar	Black Locust	Tamarack
31. Wahnapiatae - Site 40	4,250	250		4,000					
32. Wahnapiatae - J Site	500								
33. Highway 144 - Site 25	16,800	10,000	2,800	1,250	1,750			1,000	500
34. Highway 144 - Site 250	600	400	200						
35. Highway 144 General Survey Site 40	1,000								
36. Highway 144 General Survey Site 44	2,500	2,000						1,000	
37. Highway 144 - General Survey Site 16	500				500			500	
38. Highway 144 - General Survey Site 9	1,000			1,000					
39. Highway 144 - Lasalle General Survey Site 22	1,000			1,000					
40. Kingsway - General Survey Site 167	1,150	1,150							
41. Romford Coniston - General Survey Site 195	250				250				
42. Airport - Site 16 - Site 16	4,165	3,300	865						
43. South Side Lasalle	1,000*		1,000*						
44. Fisher Dry Pack - Site	1,000*		1,000*						
45. Frood Stobie/Murray Mine Site 33	800*		800*						
46. Highway 144 Site 9	11,530*		11,530*						
	80								80
TOTAL	118,885	51,950	38,795	12,125	3,475	950	1,210	9,800	580

APPENDIX

TABLE 1

SHRUB PLANTING PROGRAM 1988
SHRUB DISTRIBUTION BY AREA, NUMBER, AND SPECIES

Area Location	Total No. Of Shrubs	Highbush Cranberry (Viburnum trilobum)	Juneberry (Amelanchier sp.)	Nannyberry (Viburnum lent ago)	Red Osier Dogwood (Cornus stolonifera)	Russian Olive (elaeagnus angustifolia)	Siberian Peashrub (carugana arborescens)
1. Airport Corridor (AR01)	1,050					250	800
2. Big Nickel Mine (BN01)	50			50			
3. Fisher Dry Pack (FD01)	50			50			
4. Burton & Selkirk (BS01)	300			240		75	300
5. Cloverleaf (CL01)	315				300		340
6. Flood Road (FR01)	940		300				
7. Gatchell St. Berm (GB01)	250					250	
8. Hwy. 144 & Godfrey Dr. (4406)	1,200			200	1,000		
9. Hwy. 144 & Godfrey Dr. (4407)	150			150			
10. Highway 144 (4401)	200			200			
11. Highway 144 (4402)	150			150			
12. Highway 144 (4403)	220	20	200		200		
13. Highway 144 (4404)	200		200		900		
14. Highway 144 (4405)	1,100					200	
15. Lasalle Ext. Black Locust Site	200						450
16. Rio Street (RS01)	550		100			250	
17. Sandra St. Berm (SB01)	250					450	
18. Somerset & CPR Tracks (SS01)	450				200		
19. Terry Fox (TF01)	375		175				
20. Terry Fox (TF02)	300		300				
TOTALS	8,300	20	1,275	1,040	2,600	1,475	1,890

REGIONAL SUPERVISORY STAFF

LAND RECLAMATION PROGRAM

<u>YEAR</u>	<u>NAME</u>	<u>POSITION ON PROGRAM</u>
1978	B. Lautenbach	Technical Director
	D. Beirnes	Operations Manager
	R. Frank	Field Supervisor
	D. Faubert	Field Supervisor
	G. Chretien	Field Supervisor
1979	M. Hickmott	Project Manager
	D. Beirnes	Assistant Project Manager
	R. Frank	Field Supervisor
	G. Chretien	Field Supervisor
	J. Brault	Field Supervisor
	G. Martin	Field Supervisor
	R. Hotti	Field Supervisor
1980	M. Hickmott	Project Manager
	J. Hughes	Assistant Project Manager
	R. Franker	Operations Manager
	J. Miller	Field Supervisor
	R. Brisson	Field Supervisor
	G. Chretien	Field Supervisor
1981	M. Hickmott	Project Manager
	T. Fasciano	Assistant Project Manager
	J. Miller	Field Supervisor
	S. Lohnes	Field Supervisor
	K. Anderson	Field Supervisor
	G. Serafini	Field Supervisor
1982	J. Miller	Land Reclamation Co-ordinator
	B. Lautenbach	Technical Support
	G. Serafini	Field Supervisor
	J. Wilkin	Field Supervisor
	V. DeLuca	Field Supervisor
1983	J. Miller	Land Reclamation Co-ordinator
	B. Lautenbach	Technical Support
	G. Serafini	Senior Project Supervisor
	N. Benkovich	Field Supervisor
	L. Moulaison	Field Supervisor
	V. DeLuca	Field Supervisor
	J. Brault	Field Supervisor

1984	J. Miller B. Lautenbach J. Brault B. Renwick	Land Reclamation Co-ordinator Technical Support Field Supervisor Field Supervisor
1985	J. Miller B. Lautenbach J. Brault W. Soderman L. Brunet J. Cividino N. Benkovich	Land Reclamation Co-ordinator Technical Support Field Supervisor Field Supervisor Field Supervisor Field Supervisor Field Supervisor
1986	J. Miller B. Lautenbach	Land Reclamation Co-ordinator Technical Support
1987	J. Miller B. Lautenbach D. Miron	Land Reclamation Co-ordinator Technical Support Field Supervisor
1988	J. Miller B. Lautenbach D. Miron	Land Reclamation Co-orindator Technical Support Field Supervisor

LAND RECLAMATION 1990

SUMMARY REPORT

PROGRAM	POSITIONS	WORK WEEKS	FUNDING SOURCE	AMOUNT
CHALLENGE 90	7	55	FEDS	\$7,250
SECTION 25	20	310	FEDS	* \$110,040
FUTURES	3	8	FUTURES	* \$1,800
YOUTH EMPLOYMENT	13	89	FUTURES	* \$20,000
SUPERVISOR	1	18	OTHER	
		**	REGION	\$80,000
		**	INCO	\$25,000
		**	FALCONBRIDGE	\$6,000
TOTALS	44	480		\$261,610

ACOMPLISHMENTS

TASK	
LIMING	45.55ha 112.69ac
FERTILIZER	65.35ha 164.29ac
SEEDED	33.76ha 83.39ac
TREES PLANTED	123,350 bare root 5,300 paper pots
SHRUBS	8,125 paper pots
LANDSCAPE DESIGNS	various

- * Wages & Benefits Paid Directly To Participants
- ** Additional Funding Required To Meet Objectives

LAND RECLAMATION 1991
SUMMARY REPORT

PROGRAM	POSITIONS	WORK WEEKS	FUNDING SOURCE	AMOUNT
Section 25	12	183	Federal	*74,664
Futures	1	5	Futures (Prov)	* 1,016
Youth Emp.	12	96	Futures	*17,850
Environmental Youth Corps	19	239	M.O.E.	43,527
Sudbury Jail	9	9	M.C.S.	Unknown
		**REGION		100,000
		**INCO		25,000
		**FALCONBRIDGE		7,000

ACCOMPLISHMENTS

TASK

Liming	36.2ha	(92.4ac)	
Fertilizer	45.8ha	(112.6ac)	
Seeded	42.8ha	(105.ac)	
Trees Planted	111,590		
Shrubs Planted	15,900		
Landscape Sites	Two Sites	(\$35,000	-Funded Separately

* Wages & Benefits paid directly to participants
 ** Additional Funding required to meet objectives

M.O.E. - Ministry of Environment
 M.C.S. - Ministry of Correctional Services

1991 LAND RECLAMATION
GRASSING AND GREENING

SITE	LIME	FERTILIZER	SEED
1. CONISTON - across from Sewage Plant	9.0ac 3.6hec	9.0ac 3.6hec	9.0ac 3.6hec
2. GARSON - CONISTON RD (East Side) N. of Hwy 17 (site #13)	3.6ac 1.5hec	3.6ac 1.5hec	3.6ac 1.5hec
3. GARSON - CONISTON RD (East Side) N. of Hwy 17	10.3ac 4.2hec	10.3ac 4.2hec	10.3ac 4.2hec
4. GARSON - CONISTON RD (East Side) (N. of Hwy 17 east of creek)	11.0ac 4.5hec	11.0ac 4.5hec	11.0ac 4.5hec
5. HWY 17 at C.N.R. (Coniston - Site #14)	9.0ac 3.7hec	9.0ac 3.7hec	9.0ac 3.7hec
6. HWY 17 - (Gravel Pit)		11.7ac 4.7hec	11.7ac 4.7hec
7. HWY 69 NORTH (East side - across from Little Sobie Rd)	13.0ac 5.3hec	13.0ac 5.3hec	13.0ac 5.3hec
8. HWY 69 NORTH (West side - South of Little Sobie Rd)	6.0ac 2.4hec	6.0ac 2.4hec	6.0ac 2.4hec
9. HWY 69 NORTH (East side - South of Tracks on Wheels)	7.8ac 3.2hec	7.8ac 3.2hec	7.8ac 3.2hec
10. HWY 69 NORTH (East side - Site #10)	7.3ac 3.0hec	7.3ac 3.0hec	7.3ac 3.0hec
11. HWY 69 NORTH (West side - South of Tracks on Wheels)	3.1ac 1.3hec	3.1ac 1.3hec	3.1ac 1.3hec
12. HWY 17 WEST (Copper Cliff across from Eng. Building)		3.5ac 1.4hec	3.5ac 1.4hec

SITE	LIME	FERTILIZER	SEED
13. HWY 17 - WEST at (Big Nickle N/W Slope)		8.7ac 3.5hec	8.7ac 3.5hec
14. HWY 17 WEST at Cloverleaf (Kelly Lake Rd to Overpass)	5.2ac 2.1hec	5.2ac 2.1hec	5.2ac 2.1hec
15. HWY 17 WEST at Cloverleaf (West Island)	3.4ac 1.4hec	3.4ac 1.4hec	1.0ac .5hec
TOTALS	92.4ac 36.2hec	112.6ac 45.8hec	105.ac 42.8hec

NOTE: The areas seeded in 1990 were seeded in 1991 with birdsfoot trefoil. (83.39ac - 33.75hec)

1991 SHRUB PLANTING
LAND RECLAMATION

	DOGWOOD	RUSSIAN OLIVE	CARAGANA (PEASHRUB)	ELDERBERRY	BUSH HONEYSUCKLE	YELLOW BIRCH	TOTAL
A. WAHNAPIITAE CREEK	2000						2000
B. HWY 144	2500			100	500		3100
C. BOUCHER LAKE (top of slope)		850	500				1350
D. NOLIN CREEK (17W)	2000	850	200				3050
E. HYDRO ROAD 17E (marsh borders)	2000		200		250		2450
F. ROBINSON KELLY LAKE (marsh borders)	2000			300		250	2550
G. HYDRO ROAD - creek/valley	500	300		200	250	150	1400
	11000	2000	900	600	1000	400	15900

REGIONAL MUNICIPALITY OF SUDBURY
TREE PLANTING PROGRAM
1991

TREE PLANTING LOCATION	SPECIES										TOTAL
	White Cedar	Jack Pine	Red Pine	White Pine	White Spruce	Black Locust	Red Oak	Norway Spruce	Tamarack	Silver Maple	
Big Nickel						500					500
Hwy 17 W Inco Landfill		5000	17000	3600	10000	5000					40600
Copper Refinery to fielding (Staggared Row)	700	1600									2300
Noront Steel (Jack pine near road)	700	500									1200
Marsh off Hwy 144									950		950
Nolin Creek Hill (East Side)			500	500					1000		2000
LaSalle W end Clover Leaf	700		500	500	500						2200
Murray Mine Swamp	700		250	500			250				1700
Top of Hill S INCO rly			2500	2000		900					5400
Enrich Kingsway Hills North		3000	3400								6400
Underplant Poplar				5040	5000						10040
Hydro Road	1400	2000		2000			5000			100	10500
Low Hill North Side			1000								1000

REGIONAL MUNICIPALITY OF SUBURBY
TREE PLANTING PROGRAM
1991

TREE PLANTING LOCATION	S P E C I E S										TOTAL
	White Cedar	Jack Pine	Red Pine	White Pine	White Spruce	Black Locust	Red Oak	Norway Spruce	Tamarack	Silver Maple	
Walden Industrial Park								850			850
Falconbridge West Side/Norw	650	5000	5000			2000	1000				13650
Garson Dump		150	150			100					400
Boucher Lake		750				1500					2250
MNR-Ramsey Lake	50								50		100
Aboretum	100		50	50							200
Murray Mine							450				450
17E/Coniston-on slope							1600				1600
SE Bypass					1700						1700
INCO Landfill		2000			3500						5500
Kelly Lake/17W								100			100
TOTAL	5000	20000	30350	14190	19000	10000	10000	950	2000	100	111590

NOTE: WHITE PINE = 11,000 MULTI POTS

1992 LAND RECLAMATION

GRASSING AND GREENING SUMMARY

No	LOCATION	LIMED	FERTILIZED	SEEDED
1	Kirkwood Drive (L.U. Request)	1.3ha	NIL	NIL
2	Bell Grove Park	23.5ha	NIL	* 23.5
3	Amplitheater Park	1.5ha	1.5	1.5
4	Hwy 17 East North of Rideau Street	2.2ha	2.2	2.2
5	Garson Coniston Road (Hwy 17 to Coniston Ck) (East Side)	41.63ha	39.84	39.84
6	Junction Creek Elm to Louis Street	1.0ha	1.0	1.0
7	Paris @ York Bluff - Science North	1.0ha	NIL	NIL
	TOTAL	72.13ha 178.23ac	44.54ha 110.06ac	68.04ha 168.12ac

* SPECIAL SEED MIXTURE - 40% Red Top
 30% Canada Bluegrass
 30% Creeping Red Fescue

LAND RECLAMATION 1992				
S U M M A R Y R E P O R T				
Program	Positions	Work Weeks	Funding Source	Amount
Section 25	11	189	Federal	\$ 82,344
Futures	11	89	Province	21,093
Sudbury Jail	8	32	Ministry of Corrections	unknown
Social Services	16	445	Province	165,000
TOTALS	46	755		\$268,437
			Region of Sudbury	\$108,010.00
			INCO	25,000.00
			Falconbridge	5,000.00
			MNR	8,431.02
			Other	<u>1,249.63</u>
GRAND TOTAL				\$416,127.65

ACCOMPLISHMENTS

<u>TASK</u>	<u>RESULT</u>
Liming	72.13ha (178.23ac)
Fertilizing	44.54ha (110.06ac)
Seeding	68.04ha (168.12ac)
*Tree Planting	159,130 (36,000)
Shrub Planting	2,000
Landscape Plant	2 sites (Lorne & Kelly Lk Rd)
Transplants	35 various species (Provincial Building to Big Nickle Cloverleaf Landscape Plan)
*36,000 additional seedlings for MNR-Kilarney Area (all cost covered by MNR)	

LAND RECLAMATION - 1992**SHRUB PLANTING**

SITE	SIBERIAN PEA SHRUB	YELLOW BIRCH
Hwy #144 Godfrey Drive, North	600	
Hwy #17 & Big Nickle Road N/W Corner	400	
Big Nickle Road Berms - Westside	400	
Hwy #144 @ Historic Monument Plaque		200
Hwy 144 @ Lorne Ext S/W of Clover Leaf		200
Laurentian Univer. P. Beckett		150
Attlee Street S/E of School		50
TOTAL	1400	600

TREE PLANTING 1992

IN ADDITION, 36,000 SEEDLINGS WERE PLANTED FOR M.N.R. ALONG THE KILARNEY HWY AT VARIOUS SITES

1993 LAND RECLAMATION

GRASSING AND GREENING SUMMARY

No	LOCATION	LIMED	FERTILIZED	SEEDED
1	Goodwill Drive Garson	10.0	10.0	10.0
2	Slag Dump Area Coniston	25.2	25.2	25.2
	TOTAL	35.2ha 87.0 ac	35.2ha 87.0ac	35.2ha 87.0 ac

LAND RECLAMATION 1993				
S U M M A R Y R E P O R T				
Program	Positions	Work Weeks	Funding Source	Amount
Section 25	7	100	Federal	\$ 45,000
Futures	16	112	Province	29,100
Others	26	404		
TOTALS	49	616		\$ 74,100
			Region of Sudbury	\$135,240.00
			INCO	25,000.00
			Falconbridge	7,500.00
			Tree Plan Canada	<u>84,245.00</u>
GRAND TOTAL				\$326,085.00

ACCOMPLISHMENTS

<u>TASK</u>	<u>RESULT</u>
Liming	35.2ha (87ac)
Fertilizing	35.2ha (87ac)
Seeding	35.2ha (87ac)
*Tree & Shrub Planting	237,652 (233,452 trees, 3,700 shrubs)
Landscape Plans	3 sites (Big Nickle Cloverleaf 1) (Hwy 144 - Lasalle -2)

NOTE: In addition to paid labour 800 to 900 volunteers also assisted in the tree planting portion of the program.

TREE & SHRUB PLANTING 1993

Site #	Site Name	Pj	Pr	Pw	Sw	Or	Lb	Pea Shrub	Honey Suckle	Total
	Adanac Ski Hill			1,050						1,050
	Big Nickel							2,700		2,700
	Spruce St. Garson		1,580							1,580
	Nolin Creek				600	600				1,200
	Lake Laurentian		6,800		4,300					11,100
3	SW Bypass-Kelly L	3,200	13,200	3,000	9,300					28,700
5	N LaSalle Ext		12,000	11,000						23,000
6	D.Dozzi Park Hill		150	400		1,000				1,550
8	Spruce St. Hill	3,000								3,000
9	LaSalle 144 Inter	3,300				4,500	2,100		1,000	10,900
10	Frood Skylvine			1,000		5,000				6,000
18	Murray Mine		18,000		3,600	11,400				33,000
100	17W Snow Hedge	1,750			1,750					3,500
102	Bell Park		342	300						642
103	Bell Grove		470	800						1,270
108	Garson Con Road	6,960	18,000							24,960
110	Wahnapitae S	1,000	3,500	3,300		2,000				9,800
114	Wahnapitae 17E	800		6,700						7,500
115	Wahnapitae 17E			18,000						18,000
GROUP SITES										
	Garson Group	4,250	1,850	4,000						10,100
	Copper Cliff			4,000	4,000					8,000
	Coniston Group		5,700							5,700
	David-Well/Hill	2,200		2,200						4,400
	Give Away		20,000							20,000
Total By Species		26,460	101,592	55,750	23,550	24,550	2,100	2,700	1,000	
GRAND TOTAL										

Trees: 233,962 Shrubs: 3,100 237,652

LAND RECLAMATION 1994				
SUMMARY REPORT				
Program	Positions	Work Weeks	Funding Source	Amount
Section 25	22	322	Federal	\$136,850
Futures	7	53	Province	61,000
Ontario Training & Adjustment Board	2	18	Province	4,356
Region	19	328		
TOTALS	50	721		\$ 202,206
			Region of Sudbury	\$135,240.00
			INCO	25,000.00
			Falconbridge	8,000.00
			Tree Plan Canada	100,000.00
			GRAND TOTAL	\$470,446.00

ACCOMPLISHMENTS

TASK

Liming
Fertilizing
Seeding
Tree & Shrub Planting
Landscape Plans

RESULT

31.9ha (78.7ac)
31.9ha (78.7ac)
31.9ha (78.7ac)
356,956
2,300 Whips (Various Species)

NOTE:

In addition to paid labour approximately 800 volunteers also assisted in the tree planting portion of the program.

Tree: 356,736
Shrub: 220

TREE AND SHRUB PLANTING - 1994

SITE #	SITE NAME	AREA (ha)	AREA (ac)	SPECIES										TOTAL
				TREE DENSITY (#/ac)										
4	17 W. Fielding	2.5	6	300										
5a	Terry Fox Skyline	25	50	200	2160	500	495							495 underplant
10	Flood Skyline	50	125	400	9700	3330	19980	7980	1080	1800	448			4098
15	Murray-Mine Azilda	165	407.55	300	12912			5324						45270
16a	Selkirk playground	5	12	300										18236
17	La Salle ext. N side	15	35	300	4000	2425	3015			900	119			1334 old gravel pri/edge of wetland avoid hydro lines
18	Murray Mine urban F	150	350	450	35574			7400	1665	2500	4155			9440
20	Nicolet hills	2	5	150			135		225					67494
21	Adanac face	45	100	300	29190			8210	1080					360
22	Kingsway N side				3780			7560	1200					38480
23	INCO Engineering Hill													12540 underplant
24	17E/Big Nickel S face										375	114		489
25	Delta Dozzi Park Hill							250	270		214	106		320
106,7,8	Coniston W	10	25	300	8400	640								520
111	Wahnapitae N	1	2.5	300			90		225					9265 north part
112	Wahnapitae NE	26	64	300	18690				90					180
115	Wahnapitae 17E	50	123.5	250		50	4480		835					18690
117	Radar Base-Baileys	80	200	300		5004		2541						5365 underplant
120	H 69 N	20	50	300		2304								7545
121	Waterworks 17E	30	75	300	17450	2565	540		270					2304
123	Austin W 17E	10	25	300	3990									20825
124	Coniston/Garson corner								405					3990 needs replanting
	NDCA Lake Laurentian						4860	6200	600	2100				405
	Test Pits (Con Hydro Rd)						200		200	370	200	50		13760
	Boucher Lake - Falcohd													1070
	Copper Cliff				5008									5008
	Terry Fox Complex	10	25	200		300	765	3000	1080					4080
	SE By-pass/Richard Lk			200		2700		3740	360					5165
	Elm St. W NE side	60						2178		600				4878
	Elm St. W SW side							7120						7720
	LaSalle at Flood SE corner					555		8420			5040			13460
	Give Away					750								555
											12500			13050
VOLUNTEERS														
Coniston Group	Coniston Area				480	720	1080	2160	360	600				5400
P.A.C./E.S.	La Salle ext N side	15	35	300	2000									2000
Earth Dancers	Goodwill South					150	375	50	500					1075
L.U. Students	Arboretum						100	750	200					1050
Keating	Garson Dump Road					3020	360							3320
Keating/Schools	Coniston/Terry Fox					4320	1160	1120	1080					7620
Better Beginnings	Antwerp Playground									100				100
TOTAL BY SPECIES														220
GRAND TOTAL														356956

NOTE: IN ADDITION, 2300 WHIPS PLANTED, VARIOUS SPECIES, ON ELEVEN SITES

LAND RECLAMATION 1995				
SUMMARY REPORT				
Program	Positions	Work Weeks	Funding Source	Amount
Section 25	8	127	Federal	\$54,483.00
Summer Youth Services Canada	5	40	Federal	\$ 8,768.00
Social Services	13	115	Region	\$33,389.00
Summer Employment Experience Program	7	58	Province	\$14,279.44
Regional Municipality of Sudbury	13	218		
TOTAL	46	558		\$110,919.44
Region of Sudbury				\$112,368.00
INCO				\$ 25,000.00
Falconbridge				\$ 7,500.00
Tree Plan Canada				\$ 20,000.00
GRAND TOTAL				\$275,787.44

ACCOMPLISHMENTS

TASK

Lime
Fertilizer
Seeding
Test Plots
Tree Planting

RESULT

27.63 ha (68.27 acres)
27.63 ha (68.27 acres)
27.63 ha (68.27 acres)
7.00 ha (17.28 acres)
275,608

NOTE 400± volunteers also assisted in the planting

1995 LAND RECLAMATION

GRASSING AND GREENING SUMMARY

NO.	LOCATION	LIMED	FERTILIZED	SEEDED
1	*Slag Dump Area Coniston	13.82	13.82	13.82
2	S/E Bypass at Bancroft	13.42	13.42	13.42
3	Yacht Club/Ramsey	.39	.39	.39
	TOTAL	27.63ha	27.63ha	27.63ha
		68.27ac	68.27ac	68.27ha

* An additional 7ha test plot was established

TREES AND SHRUBS PLANTING 1995

1995 IDENT	SITE #	SITE NAME	PJ	PT	PW	SW	OR	AID	TOTAL
95-1		SPURRADO Valley View Rd-Turner Av	4755	12864	1080				18699
95-2		Flood W (CPR-Hydra Corridor)(INCO) Ltd	1959	3090	1080				6129
95-4	17	Leslie Exit N Side		1600	1080	500			3180
95-18	18	Murray Mine Urban Forest	7608	4974	1080	500			14162
95-5		N Side Kelly Lake - 17W	2660	8040	4320				15020
95-23	23	INCO Engineering Hill			180				180
95-6		Esplanade Blvd, Robinson			180				180
95-7		Lonsdale (New Reservoir)		2000	1620	1000			4620
95-8		Red Oak Forest - W. End			900		400		1300
95-10		SE Bypass - 800 North for 8 km	25200	26700	10260	4000			66160
95-11		Coniston - Edward St., South End			540				540
95-13	109	Watermain North			540				540
95-14		Cecil St., Gerson, recreational area			270	250			520
95-16		Hyland Drive	317	288					585
95-17		McCree Lake (BON)	2853	2010	2160	950			7973
95-15	15	Highway 144	5040	7560	3780	500			16880
95-27		Water Tower Hill		134	90				224
95-19		Marymount Slope		268	270				538
95-20		Kingway			4320				4320
95-21		Alt-In-One Test Coniston	1008	1005	1080				3093
95-24		800 - Good Neighbour Salvage	1092	1541	1080			SE Bypass	3713
95-25		Bleed Rd (Airport N)	2276	2412	2160				6848
95-28								to be checked	0
		Greener Street		6500		8000		bare root	14500
		Copper Cliff	3192	8432	6795				16419
		Goodwill Drive		1680					1690
95-23		Little Britain (W of road-CPR-Leslie)		2500	2000	1000	350	MOEE Office	5850
95-29		Whitewater Lake Test Force		540	540				1080
95-9		Flood Mine		2082	2010			Keating/Voy	4102
95-22		17E-8E Bypass Junction SCC	1680	2700	2160	1400		St. Charles	7940
95-12		Landfill West (17E)	951	2160	1080			St. Charles	4191
		Coniston Smelter (1804/83 treated)	5388	3972			350	Marymount	9710
									0
Volume		Coniston Improvement		2762	304	1200			4266
Keating/Marymount		Bald (NCCA Arboretum)	851		4320	5050		bare root SW	10321
		Coniston 1993	4989		7560				12549
		Adams		804	3728				4532
		Science North-Broad Glen Ferry		804					804
		Franklin Test - Coniston '95' site	1000	1000				250	2250
									0
		Column Totals	72919	108422	68567	24350	1100	250	275608
		GRAND TOTAL							275608

