

## Quick Facts About Trail Operations

### Daily consumption

Zinc concentrate - 1260 tonnes (1390 tons)  
Lead concentrate - 330 tonnes (365 tons)  
Limerock - 115 tonnes (130 tons)  
Silica - 55 tonnes (60 tons)  
Coal - 180 tonnes (200 tons)  
Fuels - 11,500 litres (2,500 gallons)  
Natural gas - 200,000 cu. metres (4,900 cfm)  
Electric power - 5,280,000 kWh  
Water - 280,000 tonnes (43,000 gal./min.)  
Compressed air - 1,800,000 cu. metres (44,000 cfm)  
Oxygen - 235 tonnes (260 tons)  
Plant area - 485 acres

### How our products are used

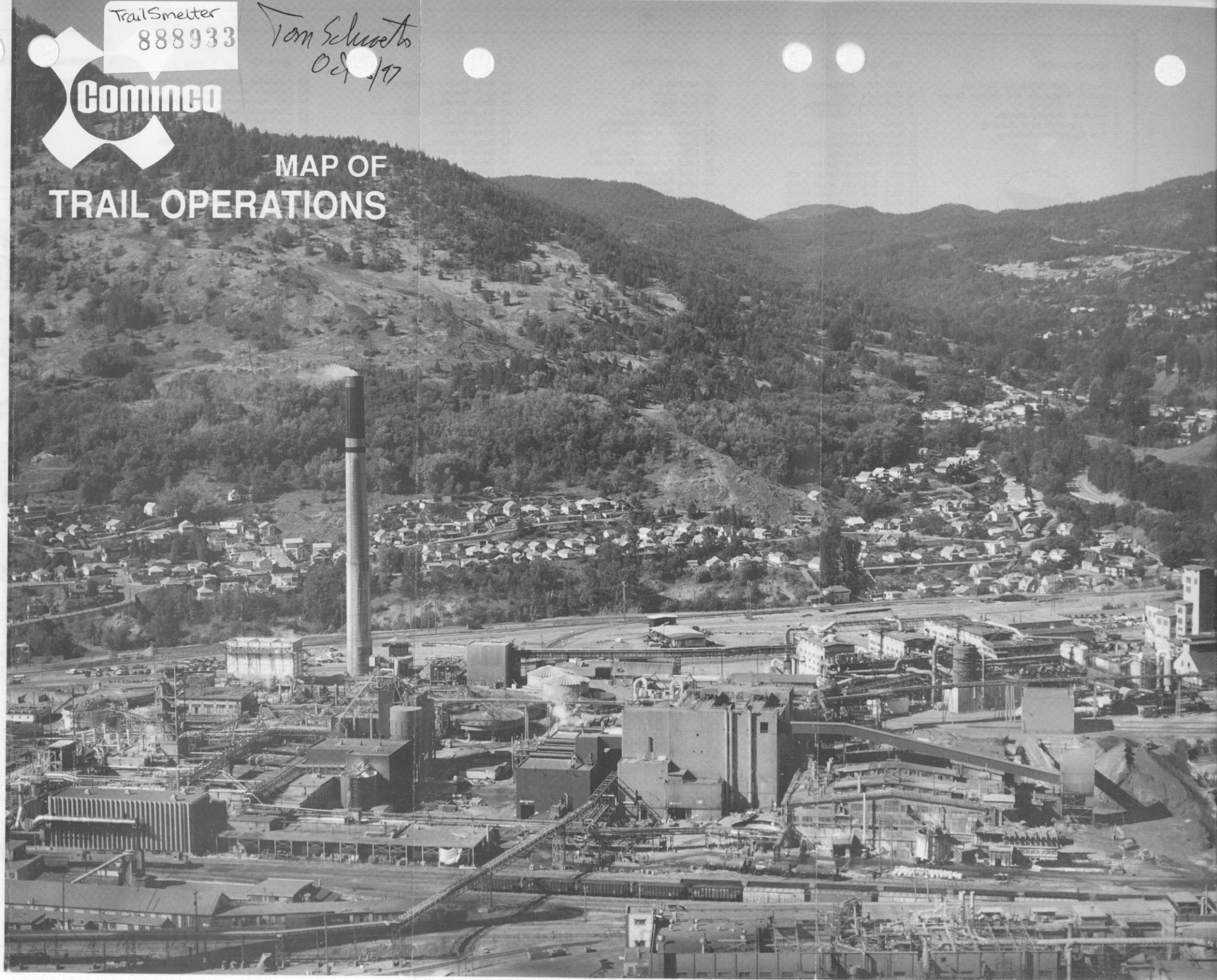
- Zinc**
- coats steel to prevent rust in cars and other steel products
  - castings of car parts, faucets, toys, appliances
  - zinc plus copper makes brass
  - zinc oxide is used in rubber, paints, cosmetics, skin cream
  - rolled zinc is used for car trim, roofing, coins
- Lead**
- car batteries (70% of all lead use)
  - radiation protection and soundproofing
  - pigments, compounds and cable sheathing
  - used to contain corrosive chemicals
- Silver** - photographic film, jewellery, tableware
- Gold** - investment, jewellery, solar sheathing
- Indium, Cadmium, Germanium**  
- electronic materials
- Bismuth** - pharmaceuticals, alloys
- Sulphur dioxide**
- used in pulp mills for bleaching
  - biocide in foods
  - metallurgical reagent
  - municipal water treatment
- Sulphuric acid**
- used in pulp mills
  - used in fertilizer production
  - car batteries
- Sulphur** - sulphur dioxide, sulphuric acid  
- fertilizers
- Copper sulphate**
- milling reagent, fungicide
  - animal feeds
- Copper arsenate**  
- wood preservative
- Sodium antimonate**  
- fire retardant



Trail Smelter  
888933

Tom Schwartz  
08/1/97

# MAP OF TRAIL OPERATIONS





ADMINISTRATION

- 1 Fire Hall and Protective Services
- 2 Human Resources and Visitors Center
- 3 Malmgate Building
- 4 Tadanac Training Center
- 5 Trail Administration Building
- 6 Trail Operations Building

ZINC OPERATIONS

- 7 470 Man Changeroom
- 8 Cadmium Plant
- 9 Concentrate Unloading
- 10 Germanium Recovery
- 11 Glover Tower
- 12 Indium Recovery
- 13 Moore/American Filters
- 14 Mercury Removal
- 15 No.1 Rectifier Room
- 16 No.1 Sulphide Leach Plant
- 17 No.2 Sulphide Leach Plant
- 18 No.5 and No.6 Acid Plant
- 19 No.8 and No.9 Acid Plant
- 20 Oxide Leaching Plant
- 21 Purification Upgrade
- 22 Sulphur Gas Handling
- 23 Zinc Electrolytic and Melting Plant
- 24 Zinc Fume Leach - Solid Separation
- 25 Zinc Maintenance Center
- 26 Zinc Pressure Leach
- 27 Zinc Roasters

LEAD OPERATIONS

- 28 Antimony Plant
- 29 Coal Dryers
- 30 Coal Plant
- 31 Compressor Room
- 32 Concentrate Unloading
- 33 Copper Arsenate Plant
- 34 Dressing Plant
- 35 Effluent Treatment Plant
- 36 Lead Furnace Baghouse
- 37 Lead Furnaces
- 38 Lead Refinery
- 39 Lead Smelter (new)

Metal Products Fabrication

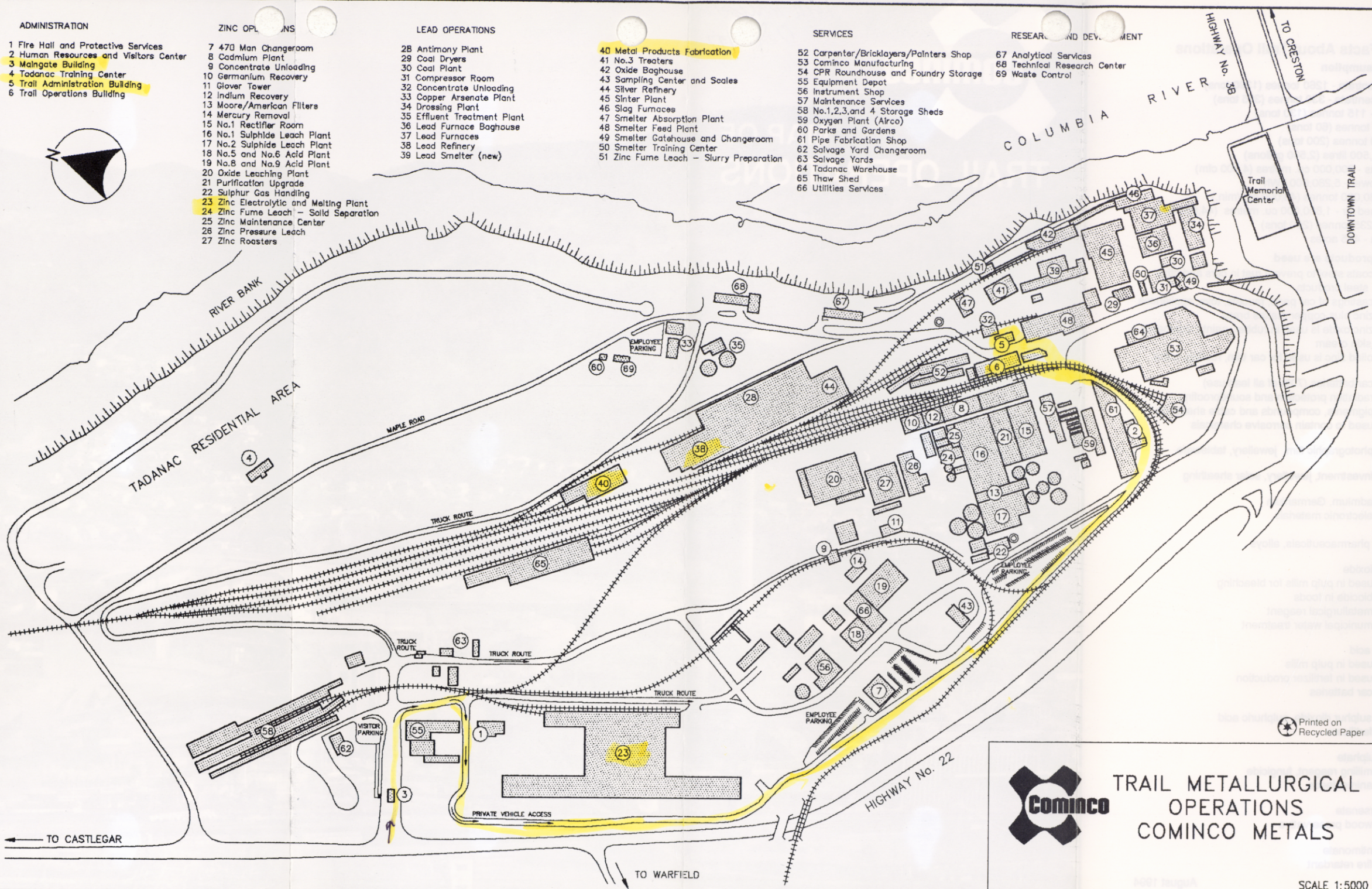
- 40 Metal Products Fabrication
- 41 No.3 Treaters
- 42 Oxide Baghouse
- 43 Sampling Center and Scales
- 44 Silver Refinery
- 45 Sinter Plant
- 46 Slag Furnaces
- 47 Smelter Absorption Plant
- 48 Smelter Feed Plant
- 49 Smelter Gatehouse and Changeroom
- 50 Smelter Training Center
- 51 Zinc Fume Leach - Slurry Preparation

SERVICES

- 52 Carpenter/Bricklayers/Painters Shop
- 53 Cominco Manufacturing
- 54 CPR Roundhouse and Foundry Storage
- 55 Equipment Depot
- 56 Instrument Shop
- 57 Maintenance Services
- 58 No.1,2,3 and 4 Storage Sheds
- 59 Oxygen Plant (Airco)
- 60 Parks and Gardens
- 61 Pipe Fabrication Shop
- 62 Salvage Yard Changeroom
- 63 Salvage Yards
- 64 Tadanac Warehouse
- 65 Thaw Shed
- 66 Utilities Services

RESEARCH AND DEVELOPMENT

- 67 Analytical Services
- 68 Technical Research Center
- 69 Waste Control



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TRAIL METALLURGICAL OPERATIONS  
COMINCO METALS

SCALE 1:5000