Appendix 2.1 LCI Data - Printed newspaper, European scenario

In the tables below the LCI data for the studied system "Printed newspaper, European scenario" are presented. The data are divided as inputs to the system and outputs from the system.

Flow – Inputs	Quantity	Amount	Unit	Origin of data
Air [Renewable resources]	Mass	-1,21E+00	kg	(Calculated)
Aluminum [Non renewable elements]	Mass	2,29E-02	kg	(No statement)
Antimonite [Non renewable resources]	Mass	2,13E-10	kg	(No statement)
Antimony [Non renewable resources]	Mass	1,08E+01	kg	Literature
Arsenic as resource [STFI-PF import]	Mass	1,98E-06	kg	Literature
Barium sulphate [Non renewable resources]	Mass	1,44E-02	kg	(No statement)
Basalt [Non renewable resources]	Mass	5,23E-03	kg	(No statement)
Bauxite [Non renewable resources]	Mass	8,49E-08	kg	Calculated
Bentonite [Non renewable resources]	Mass	1,59E-02	kg	(Literature)
Blast furnace dust [Organic intermediate products]	Mass	9,77E-12	kg	Calculated
Borax [Non renewable resources]	Mass	7,96E-07	kg	(No statement)
Butylhydroxitoluen [STFI-PF import]	Mass	8,49E-07	kg	Literature
Cadmium ore [Non renewable resources]	Mass	3,11E-06	kg	Literature
Calcium chloride [Non renewable resources]	Mass	2,34E-15	kg	Literature
Carbon dioxide [Renewable resources]	Mass	1,60E+01	kg	Calculated
Chromium [Non renewable elements]	Mass	4,07E-03	kg	Literature
Chromium ore [Non renewable resources]	Mass	4,87E-18	kg	Calculated
Chrysotile [Non renewable resources]	Mass	1,07E-05	kg	(No statement)
Cinnabar [Non renewable resources]	Mass	9,53E-07	kg	(No statement)
Clay [Non renewable resources]	Mass	2,76E-01	kg	(No statement)
Clothes [STFI-PF import] - *Not followed from the cradle*	Mass	5,03E-06	kg	Literature
Cobalt [Non renewable elements]	Mass	2,70E-08	kg	(No statement)
Colemanite ore [Non renewable resources]	Mass	1,91E-05	kg	(No statement)
Cooling water [Operating materials]	Mass	9,98E-01	kg	(Measured)
Copper [Non renewable elements]	Mass	5,10E-03	kg	(No statement)
Copper ore (0.14%) [Non renewable resources]	Mass	4,28E-04	kg	Measured
Crude oil [Crude oil (resource)]	Mass	2,17E+00	kg	(Literature)
Crude oil Algeria [Crude oil (resource)]	Mass	2,38E-02	kg	Literature
Crude oil Angola [Crude oil (resource)]	Mass	9,67E-03	kg	(Estimated)
Crude oil Argentina [Crude oil (resource)]	Mass	5,41E-08	kg	Literature
Crude oil Australia [Crude oil (resource)]	Mass	2,50E-06	kg	Estimated
Crude oil Brazil [Crude oil (resource)]	Mass	5,85E-10	kg	Literature
Crude oil Brunei [Crude oil (resource)]	Mass	2,78E-08	kg	Estimated
Crude oil Cameroon [Crude oil (resource)]	Mass	9,47E-04	kg	(Estimated)
Crude oil Canada [Crude oil (resource)]	Mass	1,92E-04	kg	(Literature)
Crude oil Central Africa [Crude oil (resource)]	Mass	6,20E-05	kg	Calculated
Crude oil Central America [Crude oil (resource)]	Mass	5,16E-05	kg	Calculated
Crude oil China [Crude oil (resource)]	Mass	2,31E-05	kg	Estimated
Crude oil CIS [Crude oil (resource)]	Mass	9,42E-02	kg	(Literature)
Crude oil Colombia [Crude oil (resource)]	Mass	3,82E-05	kg	Literature
Crude oil Denmark [Crude oil (resource)]	Mass	3,03E-05	kg	(Literature)
Crude oil Egypt [Crude oil (resource)]	Mass	7,15E-04	kg	(Estimated)
Crude oil France [Crude oil (resource)]	Mass	1,58E-07	kg	(Literature)

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow – Inputs	Quantity	Amount	Unit	Origin of data
Crude oil free wellhead [Crude oil (resource)]	Mass	3,13E-02	kg	Literature
Crude oil Gabon [Crude oil (resource)]	Mass	1,02E-07	kg	(Estimated)
Crude oil Germany [Crude oil (resource)]	Mass	1,34E-02	kg	(Literature)
Crude oil Indonesia [Crude oil (resource)]	Mass	2,16E-05	kg	Estimated
Crude oil Iran [Crude oil (resource)]	Mass	1,09E-02	kg	(Estimated)
Crude oil Italy [Crude oil (resource)]	Mass	8,53E-04	kg	Literature
Crude oil Kuwait [Crude oil (resource)]	Mass	5,38E-03	kg	(Estimated)
Crude oil Libya [Crude oil (resource)]	Mass	5,21E-02	kg	Literature
Crude oil Mexico [Crude oil (resource)]	Mass	1,78E-04	kg	Literature
Crude oil Middle East [Crude oil (resource)]	Mass	2,62E-04	kg	Calculated
Crude oil Netherlands [Crude oil (resource)]	Mass	1,09E-03	kg	(Literature)
Crude oil New Zealand [Crude oil (resource)]	Mass	5,52E-09	kg	Estimated
Crude oil Nigeria [Crude oil (resource)]	Mass	2,13E-02	kg	(Estimated)
Crude oil North Africa [Crude oil (resource)]	Mass	6,54E-05	kg	Calculated
Crude oil Norway [Crude oil (resource)]	Mass	9,78E-02	kg	(Literature)
Crude oil Oman [Crude oil (resource)]	Mass	4,49E-06	kg	Estimated
Crude oil Qatar [Crude oil (resource)]	Mass	8,81E-09	kg	(Estimated)
Crude oil Saudi Arabia [Crude oil (resource)]	Mass	4,30E-02	kg	(Estimated)
Crude oil Tunisia [Crude oil (resource)]	Mass	1,25E-06	kg	Literature
Crude oil United Arab Emirates [Crude oil (resource)]	Mass	7,26E-07	kg	(Estimated)
Crude oil United Kingdom [Crude oil (resource)]	Mass	8,35E-02	kg	(Literature)
Crude oil USA [Crude oil (resource)]	Mass	1,07E-03	kg	Literature
Crude oil Venezuela [Crude oil (resource)]	Mass	1,84E-02	kg	Literature
Diatomite [Non renewable resources]	Mass	2,05E-09	kg	(No statement)
Dolomite [Non renewable resources]	Mass	4,63E-04	kg	Calculated
Energy, calorific value, in organic substance [biotic]	Energy ren.	1,80E+02	MJ	(No statement)
Feldspar (aluminum silicates) [Non renewable resources]	Mass	2,23E-08	kg	(No statement)
Fluorine [Non renewable elements]	Mass	5,47E-04	kg	(No statement)
Fluorspar (calcium fluoride; fluorite) [Non renewable resources]	Mass	7,46E-04	kg	Calculated
Granite [Non renewable resources]	Mass	5,22E-06	kg	(No statement)
Gypsum (natural gypsum) [Non renewable resources]	Mass	1,72E-05	kg	(No statement)
Hard coal [Hard coal (resource)]	Mass	4,11E+00	kg	(Literature)
Hard coal Australia [Hard coal (resource)]	Mass	-7,54E-04	kg	(Calculated)
Hard coal Belgium [Hard coal (resource)]	Mass	7,27E-08	kg	Calculated
Hard coal Brazil [Hard coal (resource)]	Mass	1,52E-10	kg	(Estimated)
Hard coal Canada [Hard coal (resource)]	Mass	6,13E-05	kg	(Calculated)
Hard coal China [Hard coal (resource)]	Mass	-8,00E-05	kg	(Calculated)
Hard coal CIS [Hard coal (resource)]	Mass	-2,43E-04	kg	(Calculated)
Hard coal Colombia [Hard coal (resource)]	Mass	-1,06E-03	kg	(Calculated)
Hard coal Czech Republic [Hard coal (resource)]	Mass	-1,08E-03	kg	Calculated
Hard coal France [Hard coal (resource)]	Mass	2,04E-07	kg	(Calculated)
Hard coal Germany [Hard coal (resource)]	Mass	-3,05E-02	kg	Calculated
Hard coal Indonesia [Hard coal (resource)]	Mass	-2,12E-04	kg	(Calculated)
Hard coal Japan [Hard coal (resource)]	Mass	5,29E-14	kg	Calculated
Hard coal Poland [Hard coal (resource)]	Mass	-3,61E-03	kg	(Calculated)
Hard coal Portugal [Hard coal (resource)]	Mass	4,62E-13	kg	Estimated
Hard coal South Africa [Hard coal (resource)]	Mass	-5,02E-03	kg	(Calculated)
Hard coal Spain [Hard coal (resource)]	Mass	1,16E-07	kg	Calculated
Hard coal United Kingdom [Hard coal (resource)]	Mass	-2,24E-05	kg	(Calculated)
Hard coal USA [Hard coal (resource)]	Mass	-1,72E-03	kg	(Calculated)
Hard coal Venezuela [Hard coal (resource)]	Mass	-2,04E-04	kg	(Calculated)

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow – Inputs	Quantity	Amount	Unit	Origin of data
Heat from wood [Flows] - *Not followed from the cradle*	Energy	-5,12E-01	MJ	(No statement)
Heavy spar (barytes) [Non renewable resources]	Mass	4,01E-03	kg	(Literature)
Inert rock [Non renewable resources]	Mass	6,56E-02	kg	(Literature)
Iron [Non renewable elements]	Mass	2,10E-01	kg	(Literature)
Iron ore (65%) [Non renewable resources]	Mass	-4,11E-05	kg	Calculated
Iron ore [Non renewable resources]	Mass	2,98E-06	kg	(Calculated)
Kaolinite (24% in ore as mined) [Non renewable resources]	Mass	2,97E-01	kg	(No statement)
Kieserite (25% in ore as mined) [Non renewable resources]	Mass	1,01E-03	kg	(No statement)
Lead - zinc ore (4.6%-0.6%) [Non renewable resources]	Mass	5,06E-04	kg	Calculated
Lead [Non renewable elements]	Mass	1,26E-02	kg	Literature
Lignite [Lignite (resource)]	Mass	4,82E+00	kg	(Literature)
Lignite Australia [Lignite (resource)]	Mass	3,92E-07	kg	Literature
Lignite Austria [Lignite (resource)]	Mass	2,13E-12	kg	Calculated
Lignite France [Lignite (resource)]	Mass	3,68E-09	kg	Calculated
Lignite Germany (Lausitz) [Lignite (resource)]	Mass	1,98E-07	kg	Calculated
Lignite Germany (Rheinisch) [Lignite (resource)]	Mass	6,85E-05	kg	Calculated
Lignite Germany [Lignite (resource)]	Mass	6,67E-03	kg	Literature
Lignite Greece [Lignite (resource)]	Mass	5,80E-10	kg	Literature
Lignite Spain [Lignite (resource)]	Mass	6,12E-08	kg	Literature
Lignite USA [Lignite (resource)]	Mass	2,31E-06	kg	Literature
Limestone (calcium carbonate) [Non renewable resources]	Mass	6,70E-01	kg	(Literature)
Magnesit (Magnesium carbonate) [Non renewable resources]	Mass	2,78E-03	kg	Calculated
Magnesium [Non renewable elements]	Mass	5,48E-07	kg	(No statement)
Manganese [Non renewable elements]	Mass	6,57E-04	kg	(No statement)
Manganese ore (R.O.M.) [Non renewable resources]	Mass	5,28E-06	kg	Calculated
Molybdenum [Non renewable elements]	Mass	7,55E-04	kg	(No statement)
Natural Aggregate [Non renewable resources]	Mass	8,28E+00	kg	(No statement)
Natural gas [Natural gas (resource)]	Mass	3,50E+00	kg	(Literature)
Natural gas Algeria [Natural gas (resource)]	Mass	1,93E-03	kg	(Literature)
Natural gas Angola [Natural gas (resource)]	Mass	7,84E-04	kg	(Estimated)
Natural gas Argentina [Natural gas (resource)]	Mass	1,77E-09	kg	Literature
Natural gas Australia [Natural gas (resource)]	Mass	-5,29E-08	kg	(Literature)
Natural gas Brazil [Natural gas (resource)]	Mass	1,07E-07	kg	(Literature)
Natural gas Brunei [Natural gas (resource)]	Mass	9,20E-10	kg	Estimated
Natural gas Cameroon [Natural gas (resource)]	Mass	7,68E-05	kg	(Estimated)
Natural gas Canada [Natural gas (resource)]	Mass	1,98E-04	kg	(Literature)
Natural gas China [Natural gas (resource)]	Mass	1,31E-06	kg	Estimated
Natural gas CIS [Natural gas (resource)]	Mass	-7,16E-03	kg	(Literature)
Natural gas Colombia [Natural gas (resource)]	Mass	1,45E-06	kg	Literature
Natural gas Denmark [Natural gas (resource)]	Mass	-2,99E-04	kg	(Estimated)
Natural gas Egypt [Natural gas (resource)]	Mass	5,80E-05	kg	(Estimated)
Natural gas France [Natural gas (resource)]	Mass	-5,55E-06	kg	(Estimated)
Natural gas Gabon [Natural gas (resource)]	Mass	8,47E-09	kg	(Estimated)
Natural gas Germany [Natural gas (resource)]	Mass	-4,97E-03	kg	(Literature)
Natural gas Indonesia [Natural gas (resource)]	Mass	2,01E-06	kg	Estimated
Natural gas Iran [Natural gas (resource)]	Mass	4,09E-04	kg	(Estimated)
Natural gas Italy [Natural gas (resource)]	Mass	1,72E-05	kg	(Literature)
Natural gas Japan [Natural gas (resource)]	Mass	2,02E-14	kg	Estimated
Natural gas Kuwait [Natural gas (resource)]	Mass	2,01E-04	kg	(Estimated)
Natural gas Libyan [Natural gas (resource)]	Mass	4,33E-03	kg	Literature

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow – Inputs	Quantity	Amount	Unit	Origin of data
Natural gas Malaysia [Natural gas (resource)]	Mass	6,09E-09	kg	Estimated
Natural gas Mexico [Natural gas (resource)]	Mass	6,11E-06	kg	(Literature)
Natural gas Netherlands [Natural gas (resource)]	Mass	-6,98E-03	kg	(Literature)
Natural gas New Zealand [Natural gas (resource)]	Mass	1,22E-10	kg	Estimated
Natural gas Nigeria [Natural gas (resource)]	Mass	1,73E-03	kg	(Estimated)
Natural gas Norway [Natural gas (resource)]	Mass	-2,01E-03	kg	(Literature)
Natural gas Oman [Natural gas (resource)]	Mass	1,68E-07	kg	Estimated
Natural gas Qatar [Natural gas (resource)]	Mass	3,29E-10	kg	(Estimated)
Natural gas Saudi Arabia [Natural gas (resource)]	Mass	1,61E-03	kg	(Estimated)
Natural gas Spain [Natural gas (resource)]	Mass	1,83E-10	kg	Estimated
Natural gas Tunisia [Natural gas (resource)]	Mass	1,01E-07	kg	Literature
Natural gas United Arab Emirates [Natural gas (resource)]	Mass	9,91E-08	kg	(Estimated)
Natural gas United Kingdom [Natural gas (resource)]	Mass	1,58E-03	kg	(Estimated)
Natural gas USA [Natural gas (resource)]	Mass	5,29E-04	kg	(Literature)
Natural gas Venezuela [Natural gas (resource)]	Mass	1,08E-03	kg	Literature
Nickel [Non renewable elements]	Mass	1,11E-02	kg	(No statement)
Nickel ore (1.6%) [Non renewable resources]	Mass	4,07E-05	kg	Measured
Nitrogen [Renewable resources]	Mass	1,18E-08	kg	(Literature)
Occup. as Convent. arable land [Hemeroby]	Areatime	2,85E-01	m2*yr	(No statement)
Occupation, arable, non-irrigated [Hemerobie ecoinvent]	Areatime	1,10E-01	m2*yr	(No statement)
Occupation, construction site [Hemerobie ecoinvent]	Areatime	2,88E-03	m2*yr	(No statement)
Occupation, dump site [Hemerobie ecoinvent]	Areatime	3,93E-02	m2*yr	(No statement)
Occupation, dump site, benthos [Hemerobie ecoinvent]	Areatime	1,82E-03	m2*yr	(No statement)
Occupation, forest, intensive [Hemerobie ecoinvent]	Areatime	2,27E+01	m2*yr	(No statement)
Occupation, forest, intensive, normal [Hemerobie ecoinvent]	Areatime	3,36E+00	m2*yr	(No statement)
Occupation, industrial area [Hemerobie ecoinvent]	Areatime	1,93E-02	m2*yr	(No statement)
Occupation, industrial area, benthos [Hemerobie ecoinvent]	Areatime	1,69E-05	m2*yr	(No statement)
Occupation, industrial area, built up [Hemerobie ecoinvent]	Areatime	1,28E-02	m2*yr	(No statement)
Occupation, industrial area, vegetation [Hemerobie ecoinvent]	Areatime	7,48E-03	m2*yr	(No statement)
Occupation, mineral extraction site [Hemerobie ecoinvent]	Areatime	2,42E-02	m2*yr	(No statement)
Occupation, permanent crop, fruit, intensive [Hemerobie ecoinvent]	Areatime	8,29E-02	m2*yr	(No statement)
Occupation, shrub land, sclerophyllous [Hemerobie ecoinvent]	Areatime	1,83E-03	m2*yr	(No statement)
Occupation, traffic area, rail embankment [Hemerobie ecoinvent]	Areatime	1,44E-02	m2*yr	(No statement)
Occupation, traffic area, rail network [Hemerobie ecoinvent]	Areatime	1,60E-02	m2*yr	(No statement)
Occupation, traffic area, road embankment [Hemerobie ecoinvent]	Areatime	4,11E-01	m2*yr	(No statement)
Occupation, traffic area, road network [Hemerobie ecoinvent]	Areatime	3,20E-02	m2*yr	(No statement)
Occupation, urban, discontinuously built [Hemerobie ecoinvent]	Areatime	1,14E-04	m2*yr	(No statement)
Occupation, water bodies, artificial [Hemerobie ecoinvent]	Areatime	8,24E-02	m2*yr	(No statement)
Occupation, water courses, artificial [Hemerobie ecoinvent]	Areatime	2,56E-02	m2*yr	(No statement)
Olivine [Non renewable resources]	Mass	5,58E-07	kg	(No statement)
Palladium [Non renewable elements]	Mass	1,65E-08	kg	(No statement)

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow – Inputs	Quantity	Amount	Unit	Origin of data
Peat [Renewable resources]	Mass	1,45E-01	kg	(No statement)
Phosphate ore [Non renewable resources]	Mass	2,55E-02	kg	(Literature)
Phosphorus [Non renewable elements]	Mass	2,20E-03	kg	(No statement)
Phosphorus minerals [Non renewable resources]	Mass	2,33E-04	kg	Literature
Pit gas [Natural gas (resource)]	Mass	4,37E-02	kg	(Literature)
Platinum [Non renewable elements]	Mass	1,21E-09	kg	(No statement)
Potassium chloride [Non renewable resources]	Mass	2,22E-04	kg	(Literature)
Precious metal ore (R.O.M) [Non renewable resources]	Mass	1,37E-07	kg	(No statement)
Primary energy from geothermics [Renewable energy resources]	Energy ren.	1,09E-04	MJ	Estimated
Primary energy from hydro power (BUWAL) [Renewable energy resources]	Energy ren.	5,75E-03	MJ	Literature
Primary energy from hydro power [Renewable energy resources]	Energy ren.	5,75E+01	MJ	(Literature)
Primary energy from solar energy [Renewable energy resources]	Energy ren.	1,78E+00	MJ	(Estimated)
Primary energy from wind power [Renewable energy resources]	Energy ren.	5,88E+00	MJ	Calculated
Process and cooling water [Operating materials]	Mass	1,33E-10	kg	Literature
Process water [Operating materials]	Mass	1,56E-02	kg	(Measured)
Quartz sand (silica sand; silicon dioxide) [Non renewable resources]	Mass	1,70E-06	kg	(Literature)
Raw brown coal (BUWAL) [Lignite (resource)]	Mass	3,02E-04	kg	Literature
Raw hard coal (BUWAL) [Hard coal (resource)]	Mass	2,27E-04	kg	Literature
Raw natural gas (BUWAL) [Natural gas (resource)]	Mass	1,26E-03	kg	Literature
Renewable fuels [Renewable energy resources]	Mass	2,79E-06	kg	Calculated
Rhenium [Non renewable elements]	Mass	8,61E-11	kg	(No statement)
Rhodium [Non renewable elements]	Mass	4,58E-10	kg	(No statement)
Rutile (titanium ore) [Non renewable resources]	Mass	2,22E-08	kg	(No statement)
sand [Non renewable resources]	Mass	1,23E-04	kg	(No statement)
Selenium [Non renewable elements]	Mass	4,25E-08	kg	Literature
Silver [Non renewable elements]	Mass	1,88E-08	kg	(No statement)
Slate [Non renewable resources]	Mass	5,03E-06	kg	(No statement)
Sodium chloride (rock salt) [Non renewable resources]	Mass	3,77E-01	kg	(Literature)
Sodium hypochlorite [Inorganic emissions to fresh water]	Mass	5,59E-12	kg	(No statement)
Sodium sulphate [Non renewable resources]	Mass	1,59E-04	kg	(No statement)
Soil [Non renewable resources]	Mass	4,26E-04	kg	Calculated
Steel scrap (St) [Waste for recovery]	Mass	2,46E-12	kg	Calculated
Sulphite [Inorganic emissions to sea water]	Mass	1,61E-15	kg	(No statement)
Sulphur (bonded) [Non renewable resources]	Mass	1,25E-09	kg	(Literature)
Sulphur [Non renewable elements]	Mass	2,02E-04	kg	(Literature)
Sylvite (25% in Sylvinite) [Non renewable resources]	Mass	5,56E-04	kg	(No statement)
Talc [Non renewable resources]	Mass	4,41E-02	kg	(No statement)
Tin [Non renewable elements]	Mass	5,05E-06	kg	(No statement)
Titanium dioxide [Non renewable resources]	Mass	9,83E-04	kg	(No statement)
Titanium ore [Non renewable resources]	Mass	7,93E-11	kg	(No statement)
Transformation, from arable [Hemerobie ecoinvent]	Area	2,04E-05	sqm	(No statement)
Transformation, from arable, non-irrigated [Hemerobie ecoinvent]	Area	2,03E-01	sqm	(No statement)
Transformation, from arable, non-irrigated, fallow [Hemerobie ecoinvent]	Area	1,47E-06	sqm	(No statement)
Transformation, from dump site, inert material landfill [Hemerobie ecoinvent]	Area	4,56E-05	sqm	(No statement)
Transformation, from dump site, residual material landfill [Hemerobie ecoinvent]	Area	1,02E-04	sqm	(No statement)

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow – Inputs	Quantity	Amount	Unit	Origin of data
Transformation, from dump site, sanitary landfill [Hemerobie ecoinvent]	Area	2,11E-04	sqm	(No statement)
Transformation, from dump site, slag compartment [Hemerobie ecoinvent]	Area	6,18E-06	sqm	(No statement)
Transformation, from forest [Hemerobie ecoinvent]	Area	3,22E-03	sqm	(No statement)
Transformation, from forest, extensive [Hemerobie ecoinvent]	Area	1,83E-01	sqm	(No statement)
Transformation, from industrial area [Hemerobie ecoinvent]	Area	5,07E-05	sqm	(No statement)
Transformation, from industrial area, benthos [Hemerobie ecoinvent]	Area	1,05E-07	sqm	(No statement)
Transformation, from industrial area, built up [Hemerobie ecoinvent]	Area	2,21E-08	sqm	(No statement)
Transformation, from industrial area, vegetation [Hemerobie ecoinvent]	Area	3,77E-08	sqm	(No statement)
Transformation, from mineral extraction site [Hemerobie ecoinvent]	Area	5,38E-04	sqm	(No statement)
Transformation, from pasture and meadow [Hemerobie ecoinvent]	Area	6,88E-04	sqm	(No statement)
Transformation, from pasture and meadow, intensive [Hemerobie ecoinvent]	Area	1,63E-04	sqm	(No statement)
Transformation, from sea and ocean [Hemerobie ecoinvent]	Area	1,82E-03	sqm	(No statement)
Transformation, from shrub land, sclerophyllous [Hemerobie ecoinvent]	Area	5,13E-04	sqm	(No statement)
Transformation, from unknown [Hemerobie ecoinvent]	Area	4,74E-03	sqm	(No statement)
Transformation, to arable [Hemerobie ecoinvent]	Area	4,13E-04	sqm	(No statement)
Transformation, to arable, non-irrigated [Hemerobie ecoinvent]	Area	2,03E-01	sqm	(No statement)
Transformation, to arable, non-irrigated, fallow [Hemerobie ecoinvent]	Area	2,60E-06	sqm	(No statement)
Transformation, to dump site [Hemerobie ecoinvent]	Area	2,39E-04	sqm	(No statement)
Transformation, to dump site, benthos [Hemerobie ecoinvent]	Area	1,82E-03	sqm	(No statement)
Transformation, to dump site, inert material landfill [Hemerobie ecoinvent]	Area	4,56E-05	sqm	(No statement)
Transformation, to dump site, residual material landfill [Hemerobie ecoinvent]	Area	1,02E-04	sqm	(No statement)
Transformation, to dump site, sanitary landfill [Hemerobie ecoinvent]	Area	2,11E-04	sqm	(No statement)
Transformation, to dump site, slag compartment [Hemerobie ecoinvent]	Area	6,18E-06	sqm	(No statement)
Transformation, to forest [Hemerobie ecoinvent]	Area	6,57E-04	sqm	(No statement)
Transformation, to forest, intensive [Hemerobie ecoinvent]	Area	1,51E-01	sqm	(No statement)
Transformation, to forest, intensive, normal [Hemerobie ecoinvent]	Area	2,73E-02	sqm	(No statement)
Transformation, to heterogeneous, agricultural [Hemerobie ecoinvent]	Area	1,51E-04	sqm	(No statement)
Transformation, to industrial area [Hemerobie ecoinvent]	Area	3,02E-04	sqm	(No statement)
Transformation, to industrial area, benthos [Hemerobie ecoinvent]	Area	8,39E-07	sqm	(No statement)
Transformation, to industrial area, built up [Hemerobie ecoinvent]	Area	2,50E-04	sqm	(No statement)
Transformation, to industrial area, vegetation [Hemerobie ecoinvent]	Area	1,59E-04	sqm	(No statement)
Transformation, to mineral extraction site [Hemerobie ecoinvent]	Area	5,58E-03	sqm	(No statement)

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow – Inputs	Quantity	Amount	Unit	Origin of data
Transformation, to pasture and meadow [Hemerobie ecoinvent]	Area	1,91E-05	sqm	(No statement)
Transformation, to permanent crop, fruit, intensive [Hemerobie ecoinvent]	Area	1,25E-03	sqm	(No statement)
Transformation, to sea and ocean [Hemerobie ecoinvent]	Area	1,05E-07	sqm	(No statement)
Transformation, to shrub land, sclerophyllous [Hemerobie ecoinvent]	Area	3,65E-04	sqm	(No statement)
Transformation, to traffic area, rail embankment [Hemerobie ecoinvent]	Area	3,36E-05	sqm	(No statement)
Transformation, to traffic area, rail network [Hemerobie ecoinvent]	Area	3,69E-05	sqm	(No statement)
Transformation, to traffic area, road embankment [Hemerobie ecoinvent]	Area	2,77E-03	sqm	(No statement)
Transformation, to traffic area, road network [Hemerobie ecoinvent]	Area	2,00E-04	sqm	(No statement)
Transformation, to unknown [Hemerobie ecoinvent]	Area	4,66E-05	sqm	(No statement)
Transformation, to urban, discontinuously built [Hemerobie ecoinvent]	Area	2,27E-06	sqm	(No statement)
Transformation, to water bodies, artificial [Hemerobie ecoinvent]	Area	1,01E-03	sqm	(No statement)
Transformation, to water courses, artificial [Hemerobie ecoinvent]	Area	3,09E-04	sqm	(No statement)
Ulexite [Non renewable resources]	Mass	2,85E-06	kg	(No statement)
Unspecified [STFI-PF import] - *Not followed from the cradle*	Mass	2,34E-01	kg	Estimated
Uranium free ore (BUWAL) [Uranium (resource)]	Mass	2,25E-07	kg	Literature
Uranium natural [Uranium (resource)]	Mass	3,21E-04	kg	(Literature)
Uranium spent as residue [Radioactive waste] - *Not followed from the cradle*	Mass	5,10E-10	kg	Calculated
Waste paper [Waste for recovery] - *Not followed from the cradle*	Mass	7,92E+00	kg	(No statement)
Water (feed water) [Water]	Mass	8,11E-05	kg	(Literature)
Water (ground water) [Water]	Mass	4,89E+01	kg	Literature
Water (lake water) [Water]	Mass	5,44E-01	kg	(No statement)
Water (river water) [Water]	Mass	1,40E+02	kg	(No statement)
Water (sea water) [Water]	Mass	2,26E+01	kg	(No statement)
Water (surface water) [Water]	Mass	5,87E-01	kg	(Calculated)
Water [Water]	Mass	1,82E+03	kg	(Literature)
Water for industrial use [Operating materials]	Mass	2,53E-04	kg	Calculated
Water, salt, sole [in water]	Volume	1,59E-03	m3	(No statement)
Water,turbine use, unspecified natural origin [in water]	Volume	2,55E+02	m3	(No statement)
Vermiculite [Non renewable resources]	Mass	5,19E-07	kg	(No statement)
Volume occupied, final repository for low-active radioactive waste [Hemerobie ecoinvent]	Volume	6,59E-07	m3	(No statement)
Volume occupied, final repository for radioactive waste [Hemerobie ecoinvent]	Volume	1,66E-07	m3	(No statement)
Volume occupied, reservoir [Hemerobie ecoinvent]	Cubic meter years	1,17E+00	m3a	(No statement)
Volume occupied, underground deposit [Hemerobie ecoinvent]	Volume	4,51E-06	m3	(No statement)
Wood (BUWAL) [Renewable energy resources]	Mass	8,33E-02	kg	Literature
Wood [Renewable energy resources]	Mass	2,23E-05	kg	Calculated
Wood, hard, standing [biotic]	Volume	8,75E-04	m3	(No statement)
Wood, soft, standing [biotic]	Volume	1,82E-02	m3	(No statement)
Zinc - copper ore (4.07%-2.59%) [Non renewable	Mass	2,45E-04	kg	Calculated

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow – Inputs	Quantity	Amount	Unit	Origin of data
resources]				
Zinc - lead - copper ore (12%-3%-2%) [Non renewable resources]	Mass	5,35E-05	kg	Calculated
Zinc [Non renewable elements]	Mass	1,46E-02	kg	(No statement)
Zinc ore (sulphide) [Non renewable resources]	Mass	5,89E-13	kg	Calculated

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Acenaphthene [Hydrocarbons to fresh water]	Mass	5,36E-10	kg	(No statement)
Acenaphthene [Hydrocarbons to sea water]	Mass	2,51E-10	kg	(No statement)
Acenaphthylene [Hydrocarbons to fresh water]	Mass	3,36E-11	kg	(No statement)
Acenaphthylene [Hydrocarbons to sea water]	Mass	1,57E-11	kg	(No statement)
Acentaphthene [Group NMVOC to air]	Mass	4,69E-11	kg	(No statement)
Acetaldehyde (Ethanal) [Group NMVOC to air]	Mass	9,51E-06	kg	(Literature)
Acetic acid [Group NMVOC to air]	Mass	1,10E-04	kg	(Literature)
Acetic acid [Hydrocarbons to fresh water]	Mass	1,36E-06	kg	(No statement)
Acetone (dimethylcetone) [Group NMVOC to air]	Mass	8,57E-06	kg	(Literature)
Acid (calculated as H+) [Inorganic emissions to fresh water]	Mass	7,22E-05	kg	(Literature)
Aclonifen [Pesticides to agricultural soil]	Mass	4,35E-07	kg	(No statement)
Acrolein [Group NMVOC to air]	Mass	4,60E-09	kg	(No statement)
Adsorbable organic halogen compounds (AOX) [Analytical measures to fresh water]	Mass	4,94E-04	kg	(Measured)
Adsorbable organic halogen compounds (AOX) [Analytical measures to sea water]	Mass	1,78E-08	kg	(No statement)
Aktinide (general) [Radioactive emissions to air]	Activity	7,35E-06	Bq	(No statement)
Aktinide (general) [Radioactive emissions to sea water]	Activity	9,31E-01	Bq	(No statement)
Aldehyde (unspecified) [Group NMVOC to air]	Mass	4,36E-07	kg	Literature
Alkane (unspecified) [Group NMVOC to air]	Mass	1,97E-04	kg	(Calculated)
Alkane (unspecified) [Hydrocarbons to fresh water]	Mass	1,12E-05	kg	(No statement)
Alkane (unspecified) [Hydrocarbons to sea water]	Mass	5,24E-06	kg	(No statement)
Alkene (unspecified) [Group NMVOC to air]	Mass	2,03E-04	kg	(Calculated)
Alkene (unspecified) [Hydrocarbons to fresh water]	Mass	1,04E-06	kg	(No statement)
Alkene (unspecified) [Hydrocarbons to sea water]	Mass	4,83E-07	kg	(No statement)
Aluminum [Fresh water]	Mass	1,07E-01	kg	(No statement)
Aluminum [Inorganic emissions to agricultural soil]	Mass	3,82E-05	kg	(No statement)
Aluminum [Inorganic emissions to fresh water]	Mass	2,04E-04	kg	(Literature)
Aluminum [Inorganic emissions to industrial soil]	Mass	7,06E-05	kg	(No statement)
Aluminum [Inorganic emissions to sea water]	Mass	2,15E-05	kg	(No statement)
Aluminum [Particles to air]	Mass	7,44E-04	kg	(No statement)
Aluminum scrap [Waste for recovery]	Mass	4,72E-13	kg	Measured
Americium (Am241) [Radioactive emissions to fresh water]	Activity	2,35E-04	Bq	Calculated
Ammonia [Inorganic emissions to air]	Mass	1,07E-03	kg	(Literature)
Ammonia [Inorganic emissions to fresh water]	Mass	7,66E-06	kg	(Measured)
Ammonium / ammonia [Fresh water]	Mass	7,04E-04	kg	(No statement)
Ammonium / ammonia [Inorganic emissions to fresh water]	Mass	9,91E-04	kg	(Literature)
Ammonium / ammonia [Inorganic emissions to sea water]	Mass	4,35E-06	kg	(No statement)
Ammonium [Inorganic emissions to air]	Mass	2,21E-14	kg	Measured
Ammonium carbonate [high population density]	Mass	1,24E-08	kg	(No statement)
Ammonium nitrate [Inorganic emissions to air]	Mass	7,37E-12	kg	(Literature)
Antimony (Sb122) [Radioactive emissions to fresh water]	Activity	2,34E-04	Bq	(No statement)
Antimony (Sb124) [Radioactive emissions to air]	Activity	7,93E-07	Bq	(Literature)
Antimony (Sb124) [Radioactive emissions to fresh water]	Activity	1,59E-01	Bq	(Literature)
Antimony (Sb125) [Radioactive emissions to air]	Activity	6,05E-06	Bq	(No statement)
Antimony (Sb125) [Radioactive emissions to fresh water]	Activity	1,61E-01	Bq	(Literature)
Antimony [Fresh water]	Mass	1,60E-05	kg	(No statement)
Antimony [Heavy metals to agricultural soil]	Mass	4,49E-12	kg	(No statement)
Antimony [Heavy metals to air]	Mass	3,41E-07	kg	(Calculated)
Antimony [Heavy metals to fresh water]	Mass	8,14E-06	kg	(No statement)

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Argon (Ar41) [Radioactive emissions to air]	Activity	6,45E+01	Bq	(Literature)
Aromatic hydrocarbons (unspecified) [Group NMVOC to air]	Mass	3,09E-05	kg	(Calculated)
Aromatic hydrocarbons (unspecified) [Hydrocarbons to fresh water]	Mass	4,68E-05	kg	Literature
Aromatic hydrocarbons (unspecified) [Hydrocarbons to sea water]	Mass	2,32E-05	kg	(No statement)
Arsenic [Fresh water]	Mass	1,79E-06	kg	(No statement)
Arsenic [Heavy metals to agricultural soil]	Mass	1,09E-08	kg	(No statement)
Arsenic [Heavy metals to air]	Mass	2,24E-06	kg	(Literature)
Arsenic [Heavy metals to fresh water]	Mass	2,02E-05	kg	(Literature)
Arsenic [Heavy metals to industrial soil]	Mass	2,82E-08	kg	(No statement)
Arsenic [Heavy metals to sea water]	Mass	5,39E-08	kg	(No statement)
Arsenic trioxide [Heavy metals to air]	Mass	2,93E-18	kg	Measured
Ash [Stockpile goods]	Mass	2,97E-06	kg	(Calculated)
Atrazine [Pesticides to agricultural soil]	Mass	5,38E-11	kg	(No statement)
Barium (Ba140) [Radioactive emissions to air]	Activity	3,94E-04	Bq	(No statement)
Barium (Ba140) [Radioactive emissions to fresh water]	Activity	1,02E-03	Bq	(No statement)
Barium [Fresh water]	Mass	3,86E-04	kg	(No statement)
Barium [Inorganic emissions to agricultural soil]	Mass	1,32E-09	kg	(No statement)
Barium [Inorganic emissions to air]	Mass	5,67E-06	kg	(Literature)
Barium [Inorganic emissions to fresh water]	Mass	8,46E-05	kg	(Literature)
Barium [Inorganic emissions to industrial soil]	Mass	3,53E-05	kg	(No statement)
Barium [Inorganic emissions to sea water]	Mass	3,51E-05	kg	(No statement)
Barytes [ocean]	Mass	1,13E-03	kg	(No statement)
Battery Li-Ion (E-Paper) [Flows]	Mass	7,04E-10	kg	Literature
Bentazone [Pesticides to agricultural soil]	Mass	2,22E-07	kg	(No statement)
Benzaldehyde [Group NMVOC to air]	Mass	9,31E-10	kg	(No statement)
Benzene [Group NMVOC to air]	Mass	2,91E-04	kg	(Estimated)
Benzene [Hydrocarbons to fresh water]	Mass	3,47E-05	kg	(Literature)
Benzene [Hydrocarbons to sea water]	Mass	3,42E-06	kg	(No statement)
Benzo{a}pyrene [Group PAH to air]	Mass	5,48E-07	kg	(Literature)
Beryllium [Fresh water]	Mass	2,00E-06	kg	(No statement)
Beryllium [Inorganic emissions to air]	Mass	1,66E-08	kg	(Calculated)
Beryllium [Inorganic emissions to fresh water]	Mass	6,96E-09	kg	Literature
Biological oxygen demand (BOD) [Analytical measures to fresh water]	Mass	3,66E-02	kg	(Literature)
Biological oxygen demand (BOD) [Analytical measures to sea water]	Mass	5,06E-03	kg	(No statement)
Biological oxygen demand, BSB5 (Ecoinvent) [Fresh water]	Mass	9,96E-02	kg	(No statement)
Blast furnace slag [Waste for recovery]	Mass	2,83E-07	kg	Calculated
Boiler ash (unspecified) [Waste for recovery]	Mass	-6,46E-04	kg	(Calculated)
Boron [Fresh water]	Mass	3,14E-04	kg	(No statement)
Boron [Inorganic emissions to air]	Mass	4,74E-05	kg	(No statement)
Boron [Inorganic emissions to fresh water]	Mass	1,34E-05	kg	(Literature)
Boron [Inorganic emissions to sea water]	Mass	3,43E-07	kg	(No statement)
Boron compounds (unspecified) [Inorganic emissions to air]	Mass	1,54E-04	kg	(Calculated)
Bromate [Inorganic emissions to fresh water]	Mass	5,50E-05	kg	(No statement)
Bromine [Fresh water]	Mass	7,38E-06	kg	(No statement)
Bromine [Inorganic emissions to air]	Mass	1,48E-05	kg	(Calculated)
Bromine [Inorganic emissions to fresh water]	Mass	9,39E-05	kg	(No statement)
Bromine [Inorganic emissions to sea water]	Mass	2,82E-05	kg	(No statement)

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Butadiene [Group NMVOC to air]	Mass	9,18E-13	kg	(No statement)
Butane (n-butane) [Group NMVOC to air]	Mass	-4,41E-07	kg	(Calculated)
Butane [Group NMVOC to air]	Mass	2,44E-04	kg	(Estimated)
Butene [Group NMVOC to air]	Mass	2,73E-06	kg	(No statement)
Butene [Hydrocarbons to fresh water]	Mass	6,80E-08	kg	(No statement)
Cadmium [Fresh water]	Mass	4,85E-06	kg	(No statement)
Cadmium [Heavy metals to agricultural soil]	Mass	4,59E-08	kg	(No statement)
Cadmium [Heavy metals to air]	Mass	9,75E-07	kg	(Literature)
Cadmium [Heavy metals to fresh water]	Mass	1,45E-05	kg	(Literature)
Cadmium [Heavy metals to industrial soil]	Mass	1,38E-07	kg	Calculated
Cadmium [Heavy metals to sea water]	Mass	1,64E-08	kg	(No statement)
CaF2 (low radioactice) [Radioactive waste]	Mass	2,28E-08	kg	(Literature)
Calcium [Fresh water]	Mass	1,25E-01	kg	(No statement)
Calcium [Inorganic emissions to fresh water]	Mass	6,05E-03	kg	(Literature)
Calcium [Inorganic emissions to sea water]	Mass	1,45E-03	kg	(No statement)
Carbetamide [Pesticides to agricultural soil]	Mass	7,82E-08	kg	(No statement)
Carbon (C14) [Radioactive emissions to air]	Activity	5,64E+02	Bq	(Literature)
Carbon (C14) [Radioactive emissions to fresh water]	Activity	1,20E-02	Bq	(Calculated)
Carbon (unspecified) [Organic emissions to agricultural soil]	Mass	1,09E-04	kg	(No statement)
Carbon (unspecified) [Organic emissions to industrial soil]	Mass	2,12E-04	kg	(No statement)
Carbon dioxide (biotic) [Air]	Mass	8,71E+00	kg	(No statement)
Carbon dioxide [Inorganic emissions to air]	Mass	2,35E+01	kg	(Literature)
Carbon disulphide [Inorganic emissions to air]	Mass	5,49E-05	kg	(No statement)
Carbon monoxide (biotic) [Air]	Mass	2,97E-03	kg	(No statement)
Carbon monoxide [Inorganic emissions to air]	Mass	5,50E-02	kg	(Literature)
Carbon tetrachloride (tetrachloromethane) [Halogenated organic emissions to air]	Mass	7,33E-08	kg	(No statement)
Carbon, organically bound [Organic emissions to fresh water]	Mass	2,78E-03	kg	Calculated
Carbonate [Inorganic emissions to fresh water]	Mass	1,42E-04	kg	(Literature)
Cerium (Ce141) [Radioactive emissions to air]	Activity	9,54E-05	Bq	(No statement)
Cerium (Ce141) [Radioactive emissions to fresh water]	Activity	4,09E-04	Bq	(No statement)
Cerium (Ce144) [Radioactive emissions to fresh water]	Activity	1,25E-04	Bq	(No statement)
Cesium (Cs134) [Radioactive emissions to air]	Activity	6,99E-05	Bq	(Literature)
Cesium (Cs134) [Radioactive emissions to fresh water]	Activity	1,66E-01	Bq	(Literature)
Cesium (Cs136) [Radioactive emissions to fresh water]	Activity	7,27E-05	Bq	(No statement)
Cesium (Cs137) [Radioactive emissions to air]	Activity	2,16E-04	Bq	(Literature)
Cesium (Cs137) [Radioactive emissions to fresh water]	Activity	5,61E-01	Bq	(Literature)
Cesium (Cs137) [Radioactive emissions to sea water]	Activity	1,07E+02	Bq	(No statement)
Cesium [Heavy metals to fresh water]	Mass	8,63E-08	kg	(No statement)
Cesium [Heavy metals to sea water]	Mass	4,03E-08	kg	(No statement)
Chemical oxygen demand (COD) [Analytical measures to fresh water]	Mass	9,70E-02	kg	(Literature)
Chemical oxygen demand (COD) [Analytical measures to sea water]	Mass	5,11E-03	kg	(No statement)
Chemical oxygen demand, CSB (Ecoinvent) [Fresh water]	Mass	4,12E-01	kg	(No statement)
Chlorate [Inorganic emissions to fresh water]	Mass	4,30E-04	kg	(No statement)
Chloride (unspecified) [Inorganic emissions to air]	Mass	6,70E-09	kg	(Measured)
Chloride [Fresh water]	Mass	4,84E-03	kg	(No statement)
Chloride [Inorganic emissions to fresh water]	Mass	1,91E-01	kg	(Literature)
Chloride [Inorganic emissions to sea water]	Mass	2,02E-02	kg	(No statement)

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Chlorinated hydrocarbons (unspecified) [Halogenated organic emissions to fresh water]	Mass	1,37E-09	kg	Literature
Chlorine (dissolved) [Inorganic emissions to fresh water]	Mass	2,87E-06	kg	Literature
Chlorine [Inorganic emissions to agricultural soil]	Mass	4,76E-06	kg	(No statement)
Chlorine [Inorganic emissions to air]	Mass	5,95E-05	kg	(Literature)
Chlorine [Inorganic emissions to industrial soil]	Mass	4,06E-03	kg	(No statement)
Chloromethane (methyl chloride) [Halogenated organic emissions to air]	Mass	6,25E-13	kg	(No statement)
Chloromethane (methyl chloride) [Halogenated organic emissions to fresh water]	Mass	4,80E-07	kg	(Literature)
Chlorothalonil [Pesticides to agricultural soil]	Mass	1,92E-08	kg	(No statement)
Chlorous dissolvent [Halogenated organic emissions to fresh water]	Mass	2,22E-07	kg	(No statement)
Chlorous dissolvent [Halogenated organic emissions to sea water]	Mass	1,81E-14	kg	(No statement)
Chromium (Cr51) [Radioactive emissions to air]	Activity	6,12E-06	Bq	(No statement)
Chromium (Cr51) [Radioactive emissions to fresh water]	Activity	1,67E-01	Bq	(No statement)
Chromium (unspecified) [Heavy metals to agricultural soil]	Mass	8,65E-07	kg	(No statement)
Chromium (unspecified) [Heavy metals to air]	Mass	1,45E-05	kg	(Literature)
Chromium (unspecified) [Heavy metals to fresh water]	Mass	2,07E-07	kg	(Literature)
Chromium (unspecified) [Heavy metals to industrial soil]	Mass	5,08E-07	kg	(No statement)
Chromium +III [Heavy metals to fresh water]	Mass	1,38E-07	kg	(Literature)
Chromium +III [Heavy metals to industrial soil]	Mass	1,83E-06	kg	Calculated
Chromium +VI [Fresh water]	Mass	4,16E-05	kg	(No statement)
Chromium +VI [Heavy metals to air]	Mass	3,65E-07	kg	(No statement)
Chromium +VI [Heavy metals to fresh water]	Mass	2,28E-05	kg	Literature
Chromium +VI [Heavy metals to industrial soil]	Mass	7,81E-06	kg	(No statement)
Chromium containing slag [Hazardous waste for disposal]	Mass	3,97E-19	kg	Calculated
Cobalt (Co57) [Radioactive emissions to fresh water]	Activity	2,31E-03	Bq	(No statement)
Cobalt (Co58) [Radioactive emissions to air]	Activity	9,25E-06	Bq	(Literature)
Cobalt (Co58) [Radioactive emissions to fresh water]	Activity	1,27E+00	Bq	(Literature)
Cobalt (Co60) [Radioactive emissions to air]	Activity	8,88E-05	Bq	(Literature)
Cobalt (Co60) [Radioactive emissions to fresh water]	Activity	1,04E+00	Bq	(Literature)
Cobalt [Fresh water]	Mass	5,19E-05	kg	(No statement)
Cobalt [Heavy metals to agricultural soil]	Mass	3,07E-08	kg	(No statement)
Cobalt [Heavy metals to air]	Mass	1,29E-06	kg	(Literature)
Cobalt [Heavy metals to fresh water]	Mass	2,41E-07	kg	(No statement)
Cobalt [Heavy metals to sea water]	Mass	3,21E-09	kg	(No statement)
Cooling water [Waste for recovery]	Mass	1,40E+00	kg	(Measured)
Copper [Fresh water]	Mass	1,03E-03	kg	(No statement)
Copper [Heavy metals to agricultural soil]	Mass	5,56E-07	kg	(No statement)
Copper [Heavy metals to air]	Mass	9,44E-06	kg	(Literature)
Copper [Heavy metals to fresh water]	Mass	3,35E-05	kg	(Literature)
Copper [Heavy metals to industrial soil]	Mass	6,79E-06	kg	Calculated
Copper [Heavy metals to sea water]	Mass	8,08E-08	kg	(No statement)
Cumene (isopropylbenzene) [Group NMVOC to air]	Mass	1,39E-05	kg	(No statement)
Cumene (isopropylbenzene) [Organic emissions to fresh water]	Mass	3,35E-05	kg	(No statement)
Curium (Cm alpha) [Radioactive emissions to fresh water]	Activity	3,12E-04	Bq	Calculated
Cyanide (unspecified) [Inorganic emissions to air]	Mass	3,63E-05	kg	(No statement)
Cyanide [Inorganic emissions to fresh water]	Mass	9,81E-05	kg	(Literature)
Cyanide [Inorganic emissions to sea water]	Mass	1,49E-07	kg	(No statement)

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Cycloalkanes (unspec.) [Group NMVOC to air]	Mass	3,83E-08	kg	(No statement)
Cypermethrin [Pesticides to agricultural soil]	Mass	1,69E-09	kg	(No statement)
Detergent (unspecified) [Other emissions to fresh water]	Mass	3,68E-12	kg	(Literature)
Dichloroethane (ethylene dichloride) [Halogenated organic emissions to air]	Mass	1,44E-05	kg	(No statement)
Dichloroethane (ethylene dichloride) [Halogenated organic emissions to fresh water]	Mass	3,37E-05	kg	(No statement)
Dichloromethane (methylene chloride) [Halogenated organic emissions to air]	Mass	1,84E-10	kg	(No statement)
Dichloromethane (methylene chloride) [Halogenated organic emissions to fresh water]	Mass	1,79E-06	kg	(No statement)
Dichromate [river]	Mass	2,06E-07	kg	(No statement)
Diethyl amine (ethylene ethane amine) [Group NMVOC to air]	Mass	5,53E-19	kg	Measured
Different pollutants [Other emissions to agricultural soil]	Mass	7,16E-04	kg	(No statement)
Different pollutants [Other emissions to industrial soil]	Mass	5,96E-04	kg	(No statement)
Dinoseb [Pesticides to agricultural soil]	Mass	5,21E-09	kg	(No statement)
Dissolved organic carbon, DOC (Ecoinvent) [Fresh water]	Mass	3,63E-01	kg	(No statement)
Dross [Waste for recovery]	Mass	8,09E-11	kg	(Measured)
Dust (> PM10) [Particles to air]	Mass	1,75E-02	kg	(No statement)
Dust (combustion) [Particles to air]	Mass	1,17E-03	kg	Literature
Dust (PM2,5 - PM10) [Particles to air]	Mass	3,93E-03	kg	(No statement)
Dust (PM2.5) [Particles to air]	Mass	7,47E-03	kg	(No statement)
Dust (unspecified) [Particles to air]	Mass	1,57E-03	kg	(Literature)
Ethane [Group NMVOC to air]	Mass	7,26E-04	kg	(Literature)
Ethanol [Group NMVOC to air]	Mass	1,29E-05	kg	(Literature)
Ethene (ethylene) [Group NMVOC to air]	Mass	1,39E-04	kg	Calculated
Ethene (ethylene) [Hydrocarbons to fresh water]	Mass	4,66E-06	kg	(No statement)
Ethine (acetylene) [Group NMVOC to air]	Mass	2,14E-05	kg	(No statement)
Ethyl benzene [Group NMVOC to air]	Mass	4,11E-06	kg	(Calculated)
Ethyl benzene [Hydrocarbons to fresh water]	Mass	2,64E-06	kg	(Literature)
Ethyl benzene [Hydrocarbons to sea water]	Mass	9,67E-07	kg	(No statement)
Ethylene oxide [Group NMVOC to air]	Mass	2,42E-07	kg	(No statement)
Ethylene oxide [Hydrocarbons to fresh water]	Mass	5,78E-09	kg	(No statement)
Ethylenediamine [Group NMVOC to air]	Mass	8,03E-06	kg	(No statement)
Ethylenediamine [Organic emissions to fresh water]	Mass	1,95E-05	kg	(No statement)
Exhaust [Other emissions to air]	Mass	-1,01E+00	kg	(Calculated)
Fatty acid, free [Materials from renewable raw materials]	Mass	1,06E-03	kg	Estimated
Fatty acids (calculated as total carbon) [Hydrocarbons to fresh water]	Mass	3,17E-04	kg	(No statement)
Fatty acids (calculated as total carbon) [Hydrocarbons to sea water]	Mass	2,42E-04	kg	(No statement)
Fenpiclonil [Pesticides to agricultural soil]	Mass	1,58E-08	kg	(No statement)
Filter dust (heavy fuel oil power plant) [Waste for recovery]	Mass	3,62E-09	kg	Calculated
Filter dust [Hazardous waste]	Mass	6,97E-09	kg	Calculated
Fluoride (unspecified) [Inorganic emissions to air]	Mass	3,10E-07	kg	(Literature)
Fluoride [Fresh water]	Mass	1,02E-04	kg	(No statement)
Fluoride [Inorganic emissions to fresh water]	Mass	-2,73E-05	kg	(Literature)
Fluoride [Inorganic emissions to industrial soil]	Mass	8,82E-06	kg	(No statement)
Fluoride [Inorganic emissions to sea water]	Mass	6,28E-06	kg	(No statement)
Fluorides [Inorganic emissions to air]	Mass	6,63E-08	kg	(Calculated)
Fluorine [Inorganic emissions to air]	Mass	2,80E-06	kg	Literature
Fluorine [Inorganic emissions to fresh water]	Mass	1,73E-08	kg	(Calculated)

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Fly ash (unspecified) [Waste for recovery]	Mass	-2,59E-03	kg	(Calculated)
Formaldehyde (methanal) [Group NMVOC to air]	Mass	5,99E-05	kg	(Literature)
Formaldehyde (methanal) [Hydrocarbons to fresh water]	Mass	4,15E-05	kg	(No statement)
Furnace clinker [Waste for recovery]	Mass	7,43E-14	kg	Calculated
Glutaraldehyde [Hydrocarbons to sea water]	Mass	1,40E-07	kg	(No statement)
Glyphosate [Pesticides to agricultural soil]	Mass	8,82E-08	kg	(No statement)
Glyphosate [Pesticides to industrial soil]	Mass	9,72E-07	kg	(No statement)
Gypsum (contaminated) [Waste for recovery]	Mass	4,65E-03	kg	Literature
Gypsum (FDI) [Waste for recovery]	Mass	-1,43E-03	kg	(Calculated)
Gypsum [Waste for recovery]	Mass	7,43E-06	kg	(Calculated)
Halogenated hydrocarbons (unspecified) [Halogenated organic emissions to air]	Mass	1,31E-11	kg	Literature
Halon (1211) [Halogenated organic emissions to air]	Mass	1,52E-07	kg	(No statement)
Halon (1301) [Halogenated organic emissions to air]	Mass	1,28E-07	kg	(Literature)
Hazardous waste (unspec.) [Hazardous waste]	Mass	1,18E-02	kg	(Literature)
Hazardous waste for recovery (unspec.) [Hazardous waste for recovery]	Mass	3,34E-02	kg	Literature
Heat from natural gas [Flows]	Energy	8,16E-11	MJ	Calculated
Heat from oil [Flows]	Energy	7,35E-10	MJ	Measured
Heat from waste [Flows]	Energy	9,31E-10	MJ	(Literature)
Heavy fuel oil [Crude oil products]	Mass	1,29E-09	kg	Calculated
Heavy metals to water (unspecified) [Heavy metals to fresh water]	Mass	3,35E-08	kg	(Measured)
Helium [Inorganic emissions to air]	Mass	2,18E-05	kg	(Literature)
Heptane (isomers) [Group NMVOC to air]	Mass	2,70E-05	kg	(No statement)
Hexachlorobenzene (Perchlorobenzene) [Halogenated organic emissions to air]	Mass	3,76E-09	kg	(No statement)
Hexaflourosilicates [Air]	Mass	1,81E-07	kg	(No statement)
Hexaflourosilicates [Sweet-]	Mass	3,25E-07	kg	(No statement)
Hexane (isomers) [Group NMVOC to air]	Mass	1,53E-04	kg	(Literature)
Highly radioactive waste [Radioactive waste]	Mass	6,76E-08	kg	Calculated
Highly-active fission product solution [Radioactive waste]	Mass	1,59E-10	kg	(Calculated)
Housing (E-Paper) [Flows]	Mass	1,57E-03	kg	(Literature)
Hydrocarbons (unspecified) [Hydrocarbons to fresh water]	Mass	1,54E-05	kg	(Literature)
Hydrocarbons (unspecified) [Hydrocarbons to sea water]	Mass	2,12E-05	kg	(No statement)
Hydrocarbons (unspecified) [Organic emissions to air (group VOC)]	Mass	1,38E-03	kg	Literature
Hydrocarbons, aromatic [Group NMVOC to air]	Mass	2,28E-05	kg	(No statement)
Hydrocarbons, chloro-/fluoro- [Halogenated organic emissions to air]	Mass	9,52E-07	kg	(No statement)
Hydrocarbons, halogenated [Halogenated organic emissions to air]	Mass	1,65E-07	kg	(No statement)
Hydrogen (H3) [Radioactive emissions to air]	Activity	3,32E+03	Bq	(Literature)
Hydrogen (H3) [Radioactive emissions to fresh water]	Activity	2,46E+04	Bq	(Literature)
Hydrogen (H3) [Radioactive emissions to sea water]	Activity	2,22E+05	Bq	(No statement)
Hydrogen [Inorganic emissions to air]	Mass	5,44E-04	kg	(Measured)
Hydrogen arsenic (arsine) [Heavy metals to air]	Mass	2,43E-16	kg	Measured
Hydrogen chloride [Inorganic emissions to air]	Mass	1,01E-03	kg	(Literature)
Hydrogen cyanide (prussic acid) [Inorganic emissions to air]	Mass	3,30E-11	kg	Calculated
Hydrogen fluoride (hydrofluoric acid) [Inorganic emissions to fresh water]	Mass	7,50E-13	kg	Measured
Hydrogen fluoride [Inorganic emissions to air]	Mass	2,30E-04	kg	(Literature)
Hydrogen peroxide [Sweet-]	Mass	1,05E-04	kg	(No statement)

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Hydrogen sulphide [Fresh water]	Mass	5,60E-04	kg	(No statement)
Hydrogen sulphide [Inorganic emissions to air]	Mass	1,12E-04	kg	(Literature)
Hydrogen sulphide [Inorganic emissions to fresh water]	Mass	1,96E-07	kg	(No statement)
Hydroxide [Inorganic emissions to fresh water]	Mass	3,16E-07	kg	(No statement)
Hypochlorite [Inorganic emissions to fresh water]	Mass	6,86E-06	kg	(No statement)
Hypochlorite [Inorganic emissions to sea water]	Mass	7,70E-06	kg	(No statement)
Iliad Module (E-Paper) [Flows]	Mass	5,95E-10	kg	(Estimated)
Incineration good [Waste for disposal]	Mass	9,23E-08	kg	(No statement)
Industrial waste for municipal disposal [Consumer waste]	Mass	1,16E-05	kg	(Literature)
inert chemical waste [Consumer waste]	Mass	2,09E-07	kg	(Literature)
Inert gases [Radioactive emissions to air]	Activity	5,51E+06	Bq	(No statement)
Inorganic salts and acids (unspecified) [Inorganic emissions to fresh water]	Mass	5,93E-04	kg	Literature
Iodide [Fresh water]	Mass	2,95E-10	kg	(No statement)
Iodide [Inorganic emissions to fresh water]	Mass	9,24E-06	kg	(No statement)
Iodide [Inorganic emissions to sea water]	Mass	4,03E-06	kg	(No statement)
Iodine (I129) [Radioactive emissions to air]	Activity	5,74E-01	Bq	Calculated
Iodine (I129) [Radioactive emissions to fresh water]	Activity	3,43E-02	Bq	(Calculated)
Iodine (I131) [Radioactive emissions to air]	Activity	2,53E+01	Bq	(Literature)
Iodine (I131) [Radioactive emissions to fresh water]	Activity	2,95E-02	Bq	(Literature)
Iodine (I133) [Radioactive emissions to air]	Activity	4,71E-04	Bq	(No statement)
Iodine (I133) [Radioactive emissions to fresh water]	Activity	6,43E-04	Bq	(No statement)
Iodine [Inorganic emissions to air]	Mass	6,15E-06	kg	(No statement)
Iron (Fe59) [Radioactive emissions to fresh water]	Activity	1,77E-04	Bq	(No statement)
Iron [Fresh water]	Mass	1,94E-02	kg	(No statement)
Iron [Heavy metals to agricultural soil]	Mass	9,97E-05	kg	(No statement)
Iron [Heavy metals to air]	Mass	7,01E-05	kg	(Literature)
Iron [Heavy metals to fresh water]	Mass	8,14E-03	kg	(Literature)
Iron [Heavy metals to industrial soil]	Mass	1,98E-03	kg	(No statement)
Iron [Heavy metals to sea water]	Mass	2,19E-06	kg	(No statement)
Isocyanide acid [Air]	Mass	2,53E-06	kg	(No statement)
Jacket and body material [Radioactive waste]	Mass	9,55E-11	kg	(Calculated)
Krypton (Kr85) [Radioactive emissions to air]	Activity	9,05E+03	Bq	(Literature)
Krypton (Kr85m) [Radioactive emissions to air]	Activity	8,89E+00	Bq	(Literature)
Krypton (Kr87) [Radioactive emissions to air]	Activity	3,70E+00	Bq	(No statement)
Krypton (Kr88) [Radioactive emissions to air]	Activity	3,57E+00	Bq	(No statement)
Krypton (Kr89) [Radioactive emissions to air]	Activity	8,68E-01	Bq	(No statement)
Lanthanides [Heavy metals to air]	Mass	-1,25E-11	kg	(Calculated)
Lanthanum (La140) [Radioactive emissions to fresh water]	Activity	1,09E-03	Bq	(No statement)
Lanthanum (La141) [Radioactive emissions to air]	Activity	3,36E-05	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to air]	Activity	2,66E+00	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to fresh water]	Activity	1,20E+00	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to sea water]	Activity	5,15E-01	Bq	(No statement)
Lead [Fresh water]	Mass	4,59E-04	kg	(No statement)
Lead [Heavy metals to agricultural soil]	Mass	2,09E-07	kg	(No statement)
Lead [Heavy metals to air]	Mass	1,70E-05	kg	(Literature)
Lead [Heavy metals to fresh water]	Mass	9,82E-05	kg	(Literature)
Lead [Heavy metals to industrial soil]	Mass	2,86E-06	kg	Calculated
Lead [Heavy metals to sea water]	Mass	3,75E-07	kg	(No statement)
Li-Ion Cell [Other parts]	Mass	7,95E-11	kg	Literature
Linuron [Pesticides to agricultural soil]	Mass	3,37E-06	kg	(No statement)
Liquid hazardous waste [Hazardous waste]	Mass	1,60E-08	kg	(Calculated)

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Liquid waste [Consumer waste]	Mass	1,55E-06	kg	(Calculated)
Lithiumerz (R.O.M) [Non renewable resources]	Mass	1,48E-06	kg	(Literature)
Magnesium [Fresh water]	Mass	1,30E-02	kg	(No statement)
Magnesium [Inorganic emissions to fresh water]	Mass	9,75E-04	kg	(Literature)
Magnesium [Inorganic emissions to sea water]	Mass	2,23E-04	kg	(No statement)
Magnesium chloride [Inorganic emissions to fresh water]	Mass	1,76E-14	kg	(No statement)
Mancozeb [Pesticides to agricultural soil]	Mass	2,50E-08	kg	(No statement)
Manganese (Mn54) [Radioactive emissions to air]	Activity	3,13E-06	Bq	(No statement)
Manganese (Mn54) [Radioactive emissions to fresh water]	Activity	8,83E-02	Bq	(Literature)
Manganese [Fresh water]	Mass	3,49E-03	kg	(No statement)
Manganese [Heavy metals to agricultural soil]	Mass	2,99E-05	kg	(No statement)
Manganese [Heavy metals to air]	Mass	1,06E-05	kg	(Calculated)
Manganese [Heavy metals to fresh water]	Mass	1,32E-04	kg	(Literature)
Manganese [Heavy metals to industrial soil]	Mass	2,82E-06	kg	(No statement)
Manganese [Heavy metals to sea water]	Mass	1,79E-06	kg	(No statement)
Medium and low radioactive liquid waste [Radioactive waste]	Mass	2,26E-10	kg	(Calculated)
Medium and low radioactive wastes [Radioactive waste]	Mass	8,03E-08	kg	(Literature)
Mercaptan (unspecified) [Group NMVOC to air]	Mass	3,68E-12	kg	(Literature)
Mercury [Fresh water]	Mass	5,50E-07	kg	(No statement)
Mercury [Heavy metals to agricultural soil]	Mass	3,82E-09	kg	(No statement)
Mercury [Heavy metals to air]	Mass	1,21E-06	kg	(Literature)
Mercury [Heavy metals to fresh water]	Mass	4,47E-07	kg	(Literature)
Mercury [Heavy metals to industrial soil]	Mass	1,83E-08	kg	Calculated
Mercury [Heavy metals to sea water]	Mass	2,05E-09	kg	(No statement)
Metal ions (unspecific) [Fresh water]	Mass	8,63E-04	kg	(No statement)
Metal ions (unspecific) [Inorganic emissions to fresh water]	Mass	1,11E-06	kg	(Measured)
Metaldehyde [Organic emissions to agricultural soil]	Mass	1,46E-08	kg	(No statement)
Metals (unspecified) [Particles to air]	Mass	1,43E-06	kg	(Literature)
Metals (unspecified) [Particles to fresh water]	Mass	9,62E-06	kg	(Literature)
Methane (biotic) [Air]	Mass	1,03E-01	kg	(No statement)
Methane [Organic emissions to air (group VOC)]	Mass	4,52E-02	kg	(Literature)
Methanol [Group NMVOC to air]	Mass	5,67E-05	kg	(Literature)
Methanol [Hydrocarbons to fresh water]	Mass	2,86E-06	kg	(Measured)
Methanol [Hydrocarbons to sea water]	Mass	2,12E-06	kg	(No statement)
Methyl tert-butylether [Group NMVOC to air]	Mass	9,83E-08	kg	(No statement)
Methyl tert-butylether [Hydrocarbons to fresh water]	Mass	1,52E-09	kg	(No statement)
Methyl tert-butylether [Hydrocarbons to sea water]	Mass	2,72E-07	kg	(No statement)
Metolachlor [Pesticides to agricultural soil]	Mass	2,44E-05	kg	(No statement)
Metribuzin [Pesticides to agricultural soil]	Mass	8,78E-10	kg	(No statement)
Mineral waste [Consumer waste]	Mass	1,45E-06	kg	Calculated
Molybdenum (Mo99) [Radioactive emissions to fresh water]	Activity	3,76E-04	Bq	(No statement)
Molybdenum [Fresh water]	Mass	8,24E-07	kg	(No statement)
Molybdenum [Heavy metals to agricultural soil]	Mass	7,83E-09	kg	(No statement)
Molybdenum [Heavy metals to air]	Mass	6,29E-07	kg	(Literature)
Molybdenum [Heavy metals to fresh water]	Mass	1,33E-05	kg	(Literature)
Molybdenum [Heavy metals to sea water]	Mass	8,59E-09	kg	(No statement)
Monoethanolamine [Group NMVOC to air]	Mass	3,93E-06	kg	(No statement)
Municipal waste [Consumer waste]	Mass	-6,44E-07	kg	(Calculated)
Napropamide [Pesticides to agricultural soil]	Mass	2,59E-08	kg	(No statement)
Natural gas LNG [Natural gas products]	Mass	3,32E-07	kg	(No statement)

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Neutral salts [Inorganic emissions to fresh water]	Mass	-7,22E-07	kg	(Calculated)
Nickel [Fresh water]	Mass	1,89E-04	kg	(No statement)
Nickel [Heavy metals to agricultural soil]	Mass	1,24E-07	kg	(No statement)
Nickel [Heavy metals to air]	Mass	1,74E-05	kg	(Literature)
Nickel [Heavy metals to fresh water]	Mass	9,96E-06	kg	(Literature)
Nickel [Heavy metals to industrial soil]	Mass	1,06E-06	kg	Calculated
Nickel [Heavy metals to sea water]	Mass	3,00E-08	kg	(No statement)
Niobium (Nb95) [Radioactive emissions to air]	Activity	1,74E-02	Bq	(No statement)
Nitrate [Fresh water]	Mass	3,74E-04	kg	(No statement)
Nitrate [Inorganic emissions to air]	Mass	2,99E-08	kg	(No statement)
Nitrate [Inorganic emissions to fresh water]	Mass	1,26E-02	kg	(Literature)
Nitrate [Inorganic emissions to sea water]	Mass	7,66E-05	kg	(No statement)
Nitrite [Fresh water]	Mass	3,83E-05	kg	(No statement)
Nitrite [Inorganic emissions to fresh water]	Mass	2,06E-05	kg	(No statement)
Nitrite [Inorganic emissions to sea water]	Mass	1,44E-06	kg	(No statement)
Nitrogen (as total N) [Inorganic emissions to fresh water]	Mass	2,26E-06	kg	Literature
Nitrogen [Inorganic emissions to fresh water]	Mass	1,20E-03	kg	(Literature)
Nitrogen [Inorganic emissions to sea water]	Mass	3,69E-07	kg	(No statement)
Nitrogen monoxide [Inorganic emissions to air]	Mass	4,22E-04	kg	Calculated
Nitrogen organic bounded [Fresh water]	Mass	1,15E-03	kg	(No statement)
Nitrogen organic bounded [Inorganic emissions to fresh water]	Mass	2,01E-04	kg	Literature
Nitrogen organic bounded [Inorganic emissions to sea water]	Mass	9,98E-06	kg	(No statement)
Nitrogen oxides [Inorganic emissions to air]	Mass	8,14E-02	kg	(Literature)
Nitrous oxide (laughing gas) [Inorganic emissions to air]	Mass	1,52E-03	kg	(Literature)
NMVOC (unspecified) [Group NMVOC to air]	Mass	1,99E-02	kg	(Literature)
non used primary energy from water power [Other emissions to fresh water]	Energy ren.	2,07E-03	MJ	Calculated
non used primary energy from wind power [Other emissions to air]	Energy ren.	6,95E-04	MJ	(Calculated)
Occup. as Forest land [Hemeroby]	Areatime	2,85E-01	m2*yr	(No statement)
Oil (unspecified) [Hydrocarbons to fresh water]	Mass	7,20E-03	kg	(Literature)
Oil (unspecified) [Hydrocarbons to sea water]	Mass	1,57E-03	kg	(No statement)
Oil (unspecified) [Organic emissions to agricultural soil]	Mass	8,69E-03	kg	(No statement)
Oil (unspecified) [Organic emissions to industrial soil]	Mass	6,49E-05	kg	Measured
Oil to ground [STFI-PF import]	Mass	3,40E-03	kg	Literature
Orbencarb [Pesticides to agricultural soil]	Mass	4,74E-09	kg	(No statement)
Organic chlorine compounds (unspecified) [Organic emissions to fresh water]	Mass	3,68E-12	kg	(Literature)
Organic chlorine compounds [Organic emissions to air (group VOC)]	Mass	3,68E-12	kg	(Literature)
Organic waste [Consumer waste]	Mass	3,60E-04	kg	Literature
Overburden [Stockpile goods]	Mass	4,05E-02	kg	(Calculated)
Ozone [Inorganic emissions to air]	Mass	2,06E-04	kg	(No statement)
Pentachlorobenzene [Halogenated organic emissions to air]	Mass	4,92E-09	kg	(No statement)
Pentachlorophenol (PCP) [Halogenated organic emissions to air]	Mass	1,86E-07	kg	(No statement)
Pentane (n-pentane) [Group NMVOC to air]	Mass	3,11E-04	kg	(Estimated)
Personal computer [Flows]	Number of pieces	9,14E-16	pcs.	(No statement)
Phenol (hydroxy benzene) [Group NMVOC to air]	Mass	9,81E-06	kg	Literature
Phenol (hydroxy benzene) [Hydrocarbons to fresh water]	Mass	1,93E-05	kg	(Literature)
Phenol (hydroxy benzene) [Hydrocarbons to sea water]	Mass	5,26E-06	kg	(No statement)

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Phosphate [Fresh water]	Mass	5,99E-04	kg	(No statement)
Phosphate [Inorganic emissions to fresh water]	Mass	9,79E-05	kg	(Literature)
Phosphate [Inorganic emissions to sea water]	Mass	8,68E-06	kg	(No statement)
Phosphorus [Inorganic emissions to agricultural soil]	Mass	1,46E-05	kg	(No statement)
Phosphorus [Inorganic emissions to air]	Mass	1,60E-05	kg	(No statement)
Phosphorus [Inorganic emissions to fresh water]	Mass	1,69E-04	kg	(No statement)
Phosphorus [Inorganic emissions to industrial soil]	Mass	3,51E-06	kg	(No statement)
Phosphorus [Inorganic emissions to sea water]	Mass	3,60E-07	kg	(No statement)
Pirimicarb [Pesticides to agricultural soil]	Mass	2,10E-08	kg	(No statement)
Platinum [Heavy metals to air]	Mass	4,00E-13	kg	(No statement)
Plutonium (Pu alpha) [Radioactive emissions to air]	Activity	5,37E-07	Bq	Calculated
Plutonium (Pu alpha) [Radioactive emissions to fresh water]	Activity	9,60E-04	Bq	(Calculated)
Plutonium (Pu238) [Radioactive emissions to air]	Activity	7,82E-08	Bq	(No statement)
Plutonium as residual product [Radioactive waste]	Mass	1,35E-10	kg	Calculated
Polonium (Po210) [Radioactive emissions to air]	Activity	4,66E+00	Bq	(No statement)
Polonium (Po210) [Radioactive emissions to fresh water]	Activity	1,20E+00	Bq	(No statement)
Polonium (Po210) [Radioactive emissions to sea water]	Activity	7,85E-01	Bq	(No statement)
Polychlorinated biphenyls (PCB unspecified) [Halogenated organic emissions to air]	Mass	3,16E-09	kg	(No statement)
Polychlorinated dibenzo-p-dioxins (2,3,7,8 - TCDD) [Halogenated organic emissions to air]	Mass	4,73E-11	kg	(Literature)
Polychlorinated dibenzo-p-dioxins (2,3,7,8 - TCDD) [Halogenated organic emissions to fresh water]	Mass	2,57E-22	kg	Estimated
Polycyclic aromatic hydrocarbons (PAH) [Group PAH to air]	Mass	2,68E-06	kg	(Literature)
Polycyclic aromatic hydrocarbons (PAH, unspec.) [Hydrocarbons to fresh water]	Mass	3,05E-06	kg	(Literature)
Polycyclic aromatic hydrocarbons (PAH, unspec.) [Hydrocarbons to sea water]	Mass	3,32E-07	kg	(No statement)
Populated PWB Iliad Module (E-Paper) [Flows]	Mass	1,74E-04	kg	(Literature)
Potassium (K40) [Radioactive emissions to air]	Activity	5,77E-01	Bq	(No statement)
Potassium (K40) [Radioactive emissions to fresh water]	Activity	1,51E+00	Bq	(No statement)
Potassium (K40) [Radioactive emissions to sea water]	Activity	6,22E-02	Bq	(No statement)
Potassium [Fresh water]	Mass	3,13E-02	kg	(No statement)
Potassium [Inorganic emissions to fresh water]	Mass	5,20E-03	kg	(Literature)
Potassium [Inorganic emissions to sea water]	Mass	1,71E-04	kg	(No statement)
Propane [Group NMVOC to air]	Mass	3,72E-04	kg	(Literature)
Propene (propylene) [Group NMVOC to air]	Mass	4,14E-04	kg	(Calculated)
Propene [Hydrocarbons to fresh water]	Mass	7,04E-05	kg	(No statement)
Propionaldehyde [Group NMVOC to air]	Mass	9,31E-10	kg	(No statement)
Propionic acid (propane acid) [Group NMVOC to air]	Mass	1,76E-06	kg	(Estimated)
Propylene oxide [Group NMVOC to air]	Mass	3,12E-05	kg	(No statement)
Propylene oxide [Hydrocarbons to fresh water]	Mass	7,51E-05	kg	(No statement)
Protactinium (Pa234m) [Radioactive emissions to air]	Activity	7,86E-02	Bq	(No statement)
Protactinium (Pa234m) [Radioactive emissions to fresh water]	Activity	1,45E+00	Bq	(No statement)
R 11 (trichlorofluoromethane) [Halogenated organic emissions to air]	Mass	8,77E-10	kg	Literature
R 113 (trichlorofluoroethane) [Halogenated organic emissions to air]	Mass	0,00E+00	kg	(No statement)
R 114 (dichlorotetrafluoroethane) [Halogenated organic emissions to air]	Mass	1,39E-07	kg	Literature
R 116 (hexafluoroethane) [Halogenated organic emissions to air]	Mass	1,55E-07	kg	Literature

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
R 12 (dichlorodifluoromethane) [Halogenated organic emissions to air]	Mass	4,50E-09	kg	Literature
R 124 (chlorotetrafluoroethane) [Halogenated organic emissions to air]	Mass	0,00E+00	kg	(No statement)
R 13 (chlorotrifluoromethane) [Halogenated organic emissions to air]	Mass	1,18E-10	kg	Literature
R 134a (tetrafluoroethane) [Halogenated organic emissions to air]	Mass	4,38E-06	kg	(No statement)
R 21 (Dichlorofluoromethane) [Halogenated organic emissions to air]	Mass	8,13E-15	kg	(No statement)
R 22 (chlorodifluoromethane) [Halogenated organic emissions to air]	Mass	6,98E-07	kg	Literature
R 23 (trifluoromethane) [Halogenated organic emissions to air]	Mass	2,59E-12	kg	(No statement)
Radioactive emissions (general) [Radioactive emissions to air]	Activity	1,43E-01	Bq	(No statement)
Radioactive isotopes (unspecific) [Radioactive emissions to air]	Activity	3,29E+00	Bq	(No statement)
Radioactive isotopes (unspecific) [Radioactive emissions to fresh water]	Activity	5,58E+02	Bq	(No statement)
Radioactive tailings [Radioactive waste]	Mass	4,00E-05	kg	Calculated
Radium (Ra224) [Radioactive emissions to fresh water]	Activity	4,31E+00	Bq	(No statement)
Radium (Ra224) [Radioactive emissions to sea water]	Activity	2,01E+00	Bq	(No statement)
Radium (Ra226) [Radioactive emissions to air]	Activity	3,23E+00	Bq	(No statement)
Radium (Ra226) [Radioactive emissions to fresh water]	Activity	9,16E+02	Bq	(Literature)
Radium (Ra226) [Radioactive emissions to sea water]	Activity	3,80E+00	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to air]	Activity	3,61E-01	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to fresh water]	Activity	8,63E+00	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to sea water]	Activity	4,03E+00	Bq	(No statement)
Radon (Rn220) [Radioactive emissions to air]	Activity	1,85E-02	Bq	(No statement)
Radon (Rn222) [Air]	Activity	1,02E+07	Bq	(No statement)
Radon (Rn222) [Radioactive emissions to air]	Activity	2,43E+05	Bq	(Literature)
Radon (Rn-daughter nukleade) [Radioactive emissions to air]	Activity	4,77E-10	Bq	(No statement)
Red mud (wet) (3% NaOH) [Hazardous waste for disposal]	Mass	3,61E-08	kg	Measured
Rolling gravel [Waste for recovery]	Mass	1,19E-11	kg	Measured
Rolling tinder [Waste for recovery]	Mass	3,61E-13	kg	Calculated
Rubidium [Inorganic emissions to fresh water]	Mass	1,32E-06	kg	(No statement)
Ruthenium (Ru103) [Radioactive emissions to air]	Activity	8,17E-08	Bq	(No statement)
Ruthenium (Ru103) [Radioactive emissions to fresh water]	Activity	7,94E-05	Bq	(No statement)
Ruthenium (Ru106) [Radioactive emissions to fresh water]	Activity	2,35E-04	Bq	Calculated
Salt slag [Waste for recovery]	Mass	7,82E-10	kg	Calculated
Scandium [Fresh water]	Mass	2,44E-06	kg	(No statement)
Scandium [Inorganic emissions to air]	Mass	5,61E-09	kg	(Calculated)
Scandium [Inorganic emissions to fresh water]	Mass	5,86E-07	kg	(No statement)
Selenium [Fresh water]	Mass	2,38E-06	kg	(No statement)
Selenium [Heavy metals to air]	Mass	1,58E-06	kg	(Literature)
Selenium [Heavy metals to fresh water]	Mass	1,98E-06	kg	(Literature)
Selenium [Heavy metals to sea water]	Mass	1,29E-08	kg	(No statement)
Sewage sludge (waste water processing) [Hazardous waste]	Mass	2,03E-08	kg	Calculated
Silicate particles [Inorganic emissions to fresh water]	Mass	3,75E-17	kg	Measured
Silicium tetrafluoride [Inorganic emissions to air]	Mass	4,68E-10	kg	(No statement)

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Silver (Ag110m) [Radioactive emissions to air]	Activity	8,10E-07	Bq	(No statement)
Silver (Ag110m) [Radioactive emissions to fresh water]	Activity	8,58E-01	Bq	(Literature)
Silver [Fresh water]	Mass	2,36E-06	kg	(No statement)
Silver [Heavy metals to agricultural soil]	Mass	2,92E-09	kg	(No statement)
Silver [Heavy metals to air]	Mass	1,80E-11	kg	(No statement)
Silver [Heavy metals to fresh water]	Mass	1,02E-07	kg	(Literature)
Silver [Heavy metals to sea water]	Mass	2,42E-08	kg	(No statement)
Slag (Iron plate production) [Waste for recovery]	Mass	4,61E-06	kg	Measured
Slag [Hazardous waste]	Mass	4,33E-05	kg	(Calculated)
Slag [Waste for recovery]	Mass	1,11E-05	kg	(Literature)
Sludge (fibrils, spent bleaching agent) [Waste for recovery]	Mass	1,58E-04	kg	Calculated
Sludge (from processing) [Waste for recovery]	Mass	2,44E-07	kg	Calculated
Sludge [Hazardous waste]	Mass	1,92E-02	kg	(Literature)
Sodium (Na24) [Radioactive emissions to fresh water]	Activity	2,85E-03	Bq	(No statement)
Sodium [Fresh water]	Mass	4,79E-03	kg	(No statement)
Sodium [Inorganic emissions to fresh water]	Mass	5,21E-02	kg	(Literature)
Sodium [Inorganic emissions to sea water]	Mass	1,23E-02	kg	(No statement)
Sodium chlorate [high population density]	Mass	1,76E-07	kg	(No statement)
Sodium dichromate [high population density]	Mass	4,71E-07	kg	(No statement)
Sodium formate [high population density]	Mass	1,64E-05	kg	(No statement)
Sodium formate [Hydrocarbons to fresh water]	Mass	3,94E-05	kg	(No statement)
Soil loss by erosion into water [Particles to fresh water]	Mass	2,73E-02	kg	Literature
Solids (dissolved) [Analytical measures to fresh water]	Mass	2,14E-02	kg	(Literature)
Solids (suspended) [Fresh water]	Mass	2,70E-01	kg	(No statement)
Solids (suspended) [Particles to fresh water]	Mass	1,71E-02	kg	(Literature)
Solids (suspended) [Particles to sea water]	Mass	4,03E-03	kg	(No statement)
Steam [Inorganic emissions to air]	Mass	-2,66E-02	kg	(Calculated)
Steel works slag [Waste for recovery]	Mass	1,86E-12	kg	Calculated
Strontium (Sr89) [Radioactive emissions to fresh water]	Activity	1,91E-02	Bq	(No statement)
Strontium (Sr90) [Radioactive emissions to fresh water]	Activity	6,89E+02	Bq	(Literature)
Strontium (Sr90) [Radioactive emissions to sea water]	Activity	1,19E+01	Bq	(No statement)
Strontium [Fresh water]	Mass	2,27E-04	kg	(No statement)
Strontium [Heavy metals to agricultural soil]	Mass	4,54E-09	kg	(No statement)
Strontium [Heavy metals to fresh water]	Mass	5,33E-04	kg	(Literature)
Strontium [Heavy metals to industrial soil]	Mass	7,06E-07	kg	(No statement)
Strontium [Heavy metals to sea water]	Mass	2,42E-04	kg	(No statement)
Strontium [Inorganic emissions to air]	Mass	3,24E-06	kg	(Calculated)
Styrene [Group NMVOC to air]	Mass	2,36E-09	kg	(No statement)
Sulphate [Fresh water]	Mass	8,85E-02	kg	(No statement)
Sulphate [Inorganic emissions to fresh water]	Mass	5,69E-02	kg	(Literature)
Sulphate [Inorganic emissions to sea water]	Mass	6,35E-04	kg	(No statement)
Sulphide [Inorganic emissions to fresh water]	Mass	1,31E-06	kg	(Literature)
Sulphide [Inorganic emissions to sea water]	Mass	2,03E-07	kg	(No statement)
Sulphite [Inorganic emissions to fresh water]	Mass	3,87E-05	kg	(Literature)
Sulphur [Inorganic emissions to agricultural soil]	Mass	2,13E-05	kg	(No statement)
Sulphur [Inorganic emissions to fresh water]	Mass	2,52E-05	kg	(No statement)
Sulphur [Inorganic emissions to industrial soil]	Mass	4,24E-05	kg	(No statement)
Sulphur [Inorganic emissions to sea water]	Mass	1,20E-06	kg	(No statement)
Sulphur dioxide [Inorganic emissions to air]	Mass	8,93E-02	kg	(Literature)
Sulphur hexafluoride [Inorganic emissions to air]	Mass	3,31E-06	kg	Literature
Sulphuric acid [Inorganic emissions to air]	Mass	2,99E-11	kg	Calculated
Tailings [Stockpile goods]	Mass	4,30E-02	kg	(Literature)

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Tebutam [Pesticides to agricultural soil]	Mass	6,14E-08	kg	(No statement)
Technetium (Tc99m) [Radioactive emissions to fresh water]	Activity	8,72E-03	Bq	(No statement)
Teflubenzuron [Pesticides to agricultural soil]	Mass	5,84E-11	kg	(No statement)
Tellurium (Te123m) [Radioactive emissions to fresh water]	Activity	1,86E-02	Bq	(No statement)
Tellurium (Te132) [Radioactive emissions to fresh water]	Activity	2,18E-05	Bq	(No statement)
Tetrafluoromethane [Halogenated organic emissions to air]	Mass	1,39E-06	kg	Literature
Thallium [Fresh water]	Mass	4,39E-07	kg	(No statement)
Thallium [Heavy metals to air]	Mass	9,76E-09	kg	(Calculated)
Thallium [Heavy metals to fresh water]	Mass	7,50E-08	kg	(Measured)
Thermal energy (MJ) [Thermal energy]	Energy	1,32E+00	MJ	Literature
Thorium (Th228) [Radioactive emissions to air]	Activity	1,35E-01	Bq	(No statement)
Thorium (Th228) [Radioactive emissions to fresh water]	Activity	1,73E+01	Bq	(No statement)
Thorium (Th228) [Radioactive emissions to sea water]	Activity	8,06E+00	Bq	(No statement)
Thorium (Th230) [Radioactive emissions to air]	Activity	4,88E+02	Bq	(No statement)
Thorium (Th230) [Radioactive emissions to fresh water]	Activity	1,98E+02	Bq	(No statement)
Thorium (Th232) [Radioactive emissions to air]	Activity	1,79E-01	Bq	(No statement)
Thorium (Th232) [Radioactive emissions to fresh water]	Activity	2,81E-01	Bq	(No statement)
Thorium (Th234) [Radioactive emissions to air]	Activity	7,86E-02	Bq	(No statement)
Thorium (Th234) [Radioactive emissions to fresh water]	Activity	1,45E+00	Bq	(No statement)
Tin [Fresh water]	Mass	4,52E-05	kg	(No statement)
Tin [Heavy metals to agricultural soil]	Mass	9,79E-09	kg	(No statement)
Tin [Heavy metals to air]	Mass	2,81E-07	kg	(Calculated)
Tin [Heavy metals to fresh water]	Mass	1,02E-07	kg	Literature
Titanium [Heavy metals to agricultural soil]	Mass	2,05E-06	kg	(No statement)
Titanium [Heavy metals to air]	Mass	2,37E-06	kg	(Calculated)
Titanium [Heavy metals to fresh water]	Mass	2,70E-06	kg	(Literature)
Titanium [Heavy metals to sea water]	Mass	5,23E-09	kg	(No statement)
Toluene (methyl benzene) [Group NMVOC to air]	Mass	8,75E-05	kg	(Literature)
Toluene (methyl benzene) [Hydrocarbons to fresh water]	Mass	1,26E-05	kg	(Literature)
Toluene (methyl benzene) [Hydrocarbons to sea water]	Mass	6,05E-06	kg	(No statement)
Top Cover (E-Paper) [Flows]	Mass	3,44E+00	kg	(Literature)
Total dissolved organic bounded carbon [Analytical measures to fresh water]	Mass	1,54E-02	kg	(Literature)
Total dissolved organic bounded carbon [Analytical measures to sea water]	Mass	1,64E-03	kg	(No statement)
Total organic bounded carbon [Analytical measures to fresh water]	Mass	2,23E-02	kg	(Literature)
Total organic bounded carbon [Analytical measures to sea water]	Mass	1,64E-03	kg	(No statement)
Total organic carbon, TOC (Ecoinvent) [Fresh water]	Mass	3,63E-01	kg	(No statement)
Tot-P to water [STFI-PF import]	Mass	8,85E-06	kg	Literature
Treatment residue (mineral) [Stockpile goods]	Mass	5,11E-04	kg	Calculated
Tributyltinoxide [Pesticides to sea water]	Mass	3,08E-07	kg	(No statement)
Trichloromethane (chloroform) [Halogenated organic emissions to air]	Mass	6,10E-09	kg	(No statement)
Trichloromethane (chloroform) [Halogenated organic emissions to fresh water]	Mass	8,13E-15	kg	(No statement)
Triethylene glycol [Hydrocarbons to sea water]	Mass	1,75E-06	kg	(No statement)
Tungsten [Fresh water]	Mass	1,96E-06	kg	(No statement)
Tungsten [Heavy metals to fresh water]	Mass	1,21E-06	kg	(No statement)
Unused primary energy from solar energy [Other emissions to air]	Mass	2,69E-06	kg	Estimated

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Uranium (total) [Radioactive emissions to air]	Activity	4,32E+00	Bq	(Literature)
Uranium (U234) [Radioactive emissions to air]	Activity	9,38E-01	Bq	(Literature)
Uranium (U234) [Radioactive emissions to fresh water]	Activity	1,75E+00	Bq	(No statement)
Uranium (U235) [Radioactive emissions to air]	Activity	4,45E-02	Bq	(Literature)
Uranium (U235) [Radioactive emissions to fresh water]	Activity	2,88E+00	Bq	(No statement)
Uranium (U238) [Radioactive emissions to air]	Activity	1,39E+00	Bq	(Literature)
Uranium (U238) [Radioactive emissions to fresh water]	Activity	4,98E+00	Bq	(No statement)
Uranium (U238) [Radioactive emissions to sea water]	Activity	2,64E-01	Bq	(No statement)
Uranium [Radioactive emissions to fresh water]	Activity	8,39E+01	Bq	(Literature)
Uranium depleted [Radioactive waste]	Mass	1,56E-07	kg	(Calculated)
Used air [Other emissions to air]	Mass	2,04E-02	kg	(Measured)
Vanadium [Fresh water]	Mass	8,14E-05	kg	(No statement)
Vanadium [Heavy metals to agricultural soil]	Mass	5,87E-08	kg	(No statement)
Vanadium [Heavy metals to air]	Mass	4,69E-05	kg	(Literature)
Vanadium [Heavy metals to fresh water]	Mass	4,13E-06	kg	(Literature)
Vanadium [Heavy metals to sea water]	Mass	2,57E-08	kg	(No statement)
Waste (unspecified) [Consumer waste]	Mass	2,11E-03	kg	(Calculated)
Waste for recovery (unspecified) [Waste for recovery]	Mass	1,89E+00	kg	Literature
Waste heat [Fresh water]	Energy	5,12E+01	MJ	(No statement)
Waste heat [Other emissions to air]	Energy	5,39E+02	MJ	(Calculated)
Waste heat [Other emissions to fresh water]	Energy	1,25E+01	MJ	(Calculated)
Waste radioactive [Radioactive waste]	Mass	1,34E-07	kg	(Literature)
Waste water [Other emissions to fresh water]	Mass	1,15E+00	kg	(Literature)
Waste water processing residue [Hazardous waste for recovery]	Mass	3,87E-06	kg	Literature
Water (desalinated; deionized) [Operating materials]	Mass	3,22E-08	kg	Calculated
Vinyl chloride (VCM; chloroethene) [Halogenated organic emissions to air]	Mass	3,72E-07	kg	(No statement)
Vinyl chloride (VCM; chloroethene) [Halogenated organic emissions to fresh water]	Mass	2,79E-08	kg	(No statement)
VOC (unspecified) [Organic emissions to air (group VOC)]	Mass	3,90E-02	kg	Literature
VOC [Organic emissions to fresh water]	Mass	3,38E-05	kg	(No statement)
VOC [Organic emissions to sea water]	Mass	1,41E-05	kg	(No statement)
Volatile fission products (inert gases;iodine;C14) [Radioactive waste]	Mass	1,64E-12	kg	(Calculated)
Xenon (Xe131m) [Radioactive emissions to air]	Activity	1,69E+01	Bq	(Literature)
Xenon (Xe133) [Radioactive emissions to air]	Activity	5,34E+02	Bq	(Literature)
Xenon (Xe133m) [Radioactive emissions to air]	Activity	2,40E+00	Bq	(Literature)
Xenon (Xe135) [Radioactive emissions to air]	Activity	2,19E+02	Bq	(Literature)
Xenon (Xe135m) [Radioactive emissions to air]	Activity	1,28E+02	Bq	(Literature)
Xenon (Xe137) [Radioactive emissions to air]	Activity	2,38E+00	Bq	(Literature)
Xenon (Xe138) [Radioactive emissions to air]	Activity	2,14E+01	Bq	(Literature)
Xylene (dimethyl benzene) [Group NMVOC to air]	Mass	1,48E-04	kg	(Calculated)
Xylene (isomers; dimethyl benzene) [Hydrocarbons to fresh water]	Mass	3,04E-05	kg	(Literature)
Xylene (isomers; dimethyl benzene) [Hydrocarbons to sea water]	Mass	4,85E-06	kg	(No statement)
Xylene (meta-Xylene; 1,3-Dimethylbenzene) [Group NMVOC to air]	Mass	6,14E-06	kg	(No statement)
Zinc (Zn65) [Radioactive emissions to air]	Activity	1,56E-05	Bq	(No statement)
Zinc (Zn65) [Radioactive emissions to fresh water]	Activity	3,86E-02	Bq	(No statement)
Zinc [Fresh water]	Mass	6,12E-04	kg	(No statement)
Zinc [Heavy metals to agricultural soil]	Mass	5,23E-06	kg	(No statement)

Appendix 2.1
LCI Data - Printed newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Zinc [Heavy metals to air]	Mass	4,31E-05	kg	(Literature)
Zinc [Heavy metals to fresh water]	Mass	8,07E-05	kg	(Literature)
Zinc [Heavy metals to industrial soil]	Mass	2,59E-05	kg	Calculated
Zinc [Heavy metals to sea water]	Mass	5,72E-05	kg	(No statement)
Zinc sulphate [Inorganic emissions to air]	Mass	5,12E-15	kg	Measured
Zirconium (Zr) [Air]	Mass	1,06E-09	kg	(No statement)
Zirconium (Zr95) [Radioactive emissions to air]	Activity	1,53E-05	Bq	(No statement)
Zirconium (Zr95) [Radioactive emissions to fresh water]	Activity	4,47E-04	Bq	(No statement)

Appendix 2.2 LCI Data - Printed newspaper, Swedish scenario

In the tables below the LCI data for the studied system "Printed newspaper, Swedish scenario" are presented. The data are divided as inputs to the system and outputs from the system.

Flow – Inputs	Quantity	Amount	Unit	Origin of data
Air [Renewable resources]	Mass	-9,47E-01	kg	(Calculated)
Aluminum [Non renewable elements]	Mass	2,35E-02	kg	(No statement)
Antimonite [Non renewable resources]	Mass	1,70E-10	kg	(No statement)
Antimony [Non renewable resources]	Mass	1,08E+01	kg	Literature
Arsenic as resource [STFI-PF import]	Mass	1,98E-06	kg	Literature
Barium sulphate [Non renewable resources]	Mass	1,13E-02	kg	(No statement)
Basalt [Non renewable resources]	Mass	5,40E-03	kg	(No statement)
Bauxite [Non renewable resources]	Mass	8,49E-08	kg	Calculated
Bentonite [Non renewable resources]	Mass	1,50E-02	kg	(Literature)
Blast furnace dust [Organic intermediate products]	Mass	9,77E-12	kg	Calculated
Borax [Non renewable resources]	Mass	7,81E-07	kg	(No statement)
Butylhydroxitoluen [STFI-PF import]	Mass	8,49E-07	kg	Literature
Cadmium ore [Non renewable resources]	Mass	3,11E-06	kg	Literature
Calcium chloride [Non renewable resources]	Mass	2,34E-15	kg	Literature
Carbon dioxide [Renewable resources]	Mass	1,26E+01	kg	Calculated
Chromium [Non renewable elements]	Mass	3,91E-03	kg	Literature
Chromium ore [Non renewable resources]	Mass	4,87E-18	kg	Calculated
Chrysotile [Non renewable resources]	Mass	1,20E-05	kg	(No statement)
Cinnabar [Non renewable resources]	Mass	1,07E-06	kg	(No statement)
Clay [Non renewable resources]	Mass	3,06E-01	kg	(No statement)
Clothes [STFI-PF import] - Not followed from the cradle	Mass	5,03E-06	kg	Literature
Cobalt [Non renewable elements]	Mass	2,36E-08	kg	(No statement)
Colemanite ore [Non renewable resources]	Mass	1,73E-05	kg	(No statement)
Cooling water [Operating materials]	Mass	9,98E-01	kg	(Measured)
Copper [Non renewable elements]	Mass	4,64E-03	kg	(No statement)
Copper ore (0.14%) [Non renewable resources]	Mass	4,28E-04	kg	Measured
Crude oil [Crude oil (resource)]	Mass	1,69E+00	kg	(Literature)
Crude oil Algeria [Crude oil (resource)]	Mass	8,20E-02	kg	Literature
Crude oil Angola [Crude oil (resource)]	Mass	3,32E-02	kg	(Estimated)
Crude oil Argentina [Crude oil (resource)]	Mass	5,41E-08	kg	Literature
Crude oil Australia [Crude oil (resource)]	Mass	2,50E-06	kg	Estimated
Crude oil Brazil [Crude oil (resource)]	Mass	5,85E-10	kg	Literature
Crude oil Brunei [Crude oil (resource)]	Mass	2,78E-08	kg	Estimated
Crude oil Cameroon [Crude oil (resource)]	Mass	3,27E-03	kg	(Estimated)
Crude oil Canada [Crude oil (resource)]	Mass	1,93E-04	kg	(Literature)
Crude oil Central Africa [Crude oil (resource)]	Mass	2,69E-04	kg	Calculated
Crude oil Central America [Crude oil (resource)]	Mass	2,13E-04	kg	Calculated
Crude oil China [Crude oil (resource)]	Mass	2,31E-05	kg	Estimated
Crude oil CIS [Crude oil (resource)]	Mass	3,25E-01	kg	(Literature)
Crude oil Colombia [Crude oil (resource)]	Mass	3,82E-05	kg	Literature
Crude oil Denmark [Crude oil (resource)]	Mass	3,03E-05	kg	(Literature)
Crude oil Egypt [Crude oil (resource)]	Mass	2,45E-03	kg	(Estimated)
Crude oil France [Crude oil (resource)]	Mass	1,89E-07	kg	(Literature)
Crude oil free wellhead [Crude oil (resource)]	Mass	3,14E-02	kg	Literature

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Flow – Inputs	Quantity	Amount	Unit	Origin of data
Crude oil Gabon [Crude oil (resource)]	Mass	1,02E-07	kg	(Estimated)
Crude oil Germany [Crude oil (resource)]	Mass	4,61E-02	kg	(Literature)
Crude oil Indonesia [Crude oil (resource)]	Mass	2,16E-05	kg	Estimated
Crude oil Iran [Crude oil (resource)]	Mass	3,75E-02	kg	(Estimated)
Crude oil Italy [Crude oil (resource)]	Mass	2,94E-03	kg	Literature
Crude oil Kuwait [Crude oil (resource)]	Mass	1,85E-02	kg	(Estimated)
Crude oil Libya [Crude oil (resource)]	Mass	1,80E-01	kg	Literature
Crude oil Mexico [Crude oil (resource)]	Mass	1,78E-04	kg	Literature
Crude oil Middle East [Crude oil (resource)]	Mass	1,02E-03	kg	Calculated
Crude oil Netherlands [Crude oil (resource)]	Mass	3,76E-03	kg	(Literature)
Crude oil New Zealand [Crude oil (resource)]	Mass	5,52E-09	kg	Estimated
Crude oil Nigeria [Crude oil (resource)]	Mass	7,30E-02	kg	(Estimated)
Crude oil North Africa [Crude oil (resource)]	Mass	3,46E-04	kg	Calculated
Crude oil Norway [Crude oil (resource)]	Mass	3,37E-01	kg	(Literature)
Crude oil Oman [Crude oil (resource)]	Mass	4,49E-06	kg	Estimated
Crude oil Qatar [Crude oil (resource)]	Mass	8,81E-09	kg	(Estimated)
Crude oil Saudi Arabia [Crude oil (resource)]	Mass	1,48E-01	kg	(Estimated)
Crude oil Tunisia [Crude oil (resource)]	Mass	1,25E-06	kg	Literature
Crude oil United Arab Emirates [Crude oil (resource)]	Mass	7,26E-07	kg	(Estimated)
Crude oil United Kingdom [Crude oil (resource)]	Mass	2,88E-01	kg	(Literature)
Crude oil USA [Crude oil (resource)]	Mass	1,07E-03	kg	Literature
Crude oil Venezuela [Crude oil (resource)]	Mass	6,27E-02	kg	Literature
Diatomite [Non renewable resources]	Mass	1,63E-09	kg	(No statement)
Dolomite [Non renewable resources]	Mass	3,24E-04	kg	Calculated
Energy, calorific value, in organic substance [biotic]	Energy ren.	1,43E+02	MJ	(No statement)
Feldspar (aluminum silicates) [Non renewable resources]	Mass	2,26E-08	kg	(No statement)
Fluorine [Non renewable elements]	Mass	5,84E-04	kg	(No statement)
Fluorspar (calcium fluoride; fluorite) [Non renewable resources]	Mass	2,55E-03	kg	Calculated
Granite [Non renewable resources]	Mass	4,97E-06	kg	(No statement)
Gypsum (natural gypsum) [Non renewable resources]	Mass	1,67E-05	kg	(No statement)
Hard coal [Hard coal (resource)]	Mass	1,91E+00	kg	(Literature)
Hard coal Australia [Hard coal (resource)]	Mass	-2,58E-04	kg	(Calculated)
Hard coal Belgium [Hard coal (resource)]	Mass	7,27E-08	kg	Calculated
Hard coal Brazil [Hard coal (resource)]	Mass	1,52E-10	kg	(Estimated)
Hard coal Canada [Hard coal (resource)]	Mass	1,36E-04	kg	(Calculated)
Hard coal China [Hard coal (resource)]	Mass	-2,40E-05	kg	(Calculated)
Hard coal CIS [Hard coal (resource)]	Mass	-1,03E-04	kg	(Calculated)
Hard coal Colombia [Hard coal (resource)]	Mass	-4,52E-04	kg	(Calculated)
Hard coal Czech Republic [Hard coal (resource)]	Mass	-4,72E-04	kg	Calculated
Hard coal France [Hard coal (resource)]	Mass	2,20E-07	kg	(Calculated)
Hard coal Germany [Hard coal (resource)]	Mass	-1,22E-02	kg	Calculated
Hard coal Indonesia [Hard coal (resource)]	Mass	-8,77E-05	kg	(Calculated)
Hard coal Japan [Hard coal (resource)]	Mass	5,29E-14	kg	Calculated
Hard coal Poland [Hard coal (resource)]	Mass	-1,56E-03	kg	(Calculated)
Hard coal Portugal [Hard coal (resource)]	Mass	4,62E-13	kg	Estimated
Hard coal South Africa [Hard coal (resource)]	Mass	-1,97E-03	kg	(Calculated)
Hard coal Spain [Hard coal (resource)]	Mass	1,16E-07	kg	Calculated
Hard coal United Kingdom [Hard coal (resource)]	Mass	2,24E-04	kg	(Calculated)
Hard coal USA [Hard coal (resource)]	Mass	3,36E-05	kg	(Calculated)
Hard coal Venezuela [Hard coal (resource)]	Mass	-8,57E-05	kg	(Calculated)
Heat from wood [Flows] -Not followed from the cradle	Energy	-4,39E+00	MJ	(No statement)

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Flow – Inputs	Quantity	Amount	Unit	Origin of data
Heavy spar (barytes) [Non renewable resources]	Mass	1,38E-02	kg	(Literature)
Inert rock [Non renewable resources]	Mass	4,36E-01	kg	(Literature)
Iron [Non renewable elements]	Mass	1,45E-01	kg	(Literature)
Iron ore (65%) [Non renewable resources]	Mass	-1,58E-05	kg	Calculated
Iron ore [Non renewable resources]	Mass	2,33E-05	kg	(Calculated)
Kaolinite (24% in ore as mined) [Non renewable resources]	Mass	4,30E-01	kg	(No statement)
Kieserite (25% in ore as mined) [Non renewable resources]	Mass	7,51E-04	kg	(No statement)
Lead - zinc ore (4.6%-0.6%) [Non renewable resources]	Mass	5,06E-04	kg	Calculated
Lead [Non renewable elements]	Mass	1,08E-02	kg	Literature
Lignite [Lignite (resource)]	Mass	7,73E-01	kg	(Literature)
Lignite Australia [Lignite (resource)]	Mass	3,92E-07	kg	Literature
Lignite Austria [Lignite (resource)]	Mass	6,84E-12	kg	Calculated
Lignite France [Lignite (resource)]	Mass	8,34E-09	kg	Calculated
Lignite Germany (Lausitz) [Lignite (resource)]	Mass	4,00E-07	kg	Calculated
Lignite Germany (Rheinisch) [Lignite (resource)]	Mass	3,72E-03	kg	Calculated
Lignite Germany [Lignite (resource)]	Mass	1,87E-02	kg	Literature
Lignite Greece [Lignite (resource)]	Mass	5,80E-10	kg	Literature
Lignite Spain [Lignite (resource)]	Mass	6,12E-08	kg	Literature
Lignite USA [Lignite (resource)]	Mass	2,31E-06	kg	Literature
Limestone (calcium carbonate) [Non renewable resources]	Mass	6,45E-01	kg	(Literature)
Magnesit (Magnesium carbonate) [Non renewable resources]	Mass	1,84E-03	kg	Calculated
Magnesium [Non renewable elements]	Mass	4,14E-07	kg	(No statement)
Manganese [Non renewable elements]	Mass	3,50E-04	kg	(No statement)
Manganese ore (R.O.M.) [Non renewable resources]	Mass	5,28E-06	kg	Calculated
Molybdenum [Non renewable elements]	Mass	4,24E-04	kg	(No statement)
Natural Aggregate [Non renewable resources]	Mass	5,46E+00	kg	(No statement)
Natural gas [Natural gas (resource)]	Mass	2,97E+00	kg	(Literature)
Natural gas Algeria [Natural gas (resource)]	Mass	6,65E-03	kg	(Literature)
Natural gas Angola [Natural gas (resource)]	Mass	2,69E-03	kg	(Estimated)
Natural gas Argentina [Natural gas (resource)]	Mass	1,77E-09	kg	Literature
Natural gas Australia [Natural gas (resource)]	Mass	1,82E-07	kg	(Literature)
Natural gas Brazil [Natural gas (resource)]	Mass	1,07E-07	kg	(Literature)
Natural gas Brunei [Natural gas (resource)]	Mass	9,20E-10	kg	Estimated
Natural gas Cameroon [Natural gas (resource)]	Mass	2,65E-04	kg	(Estimated)
Natural gas Canada [Natural gas (resource)]	Mass	1,98E-04	kg	(Literature)
Natural gas China [Natural gas (resource)]	Mass	1,31E-06	kg	Estimated
Natural gas CIS [Natural gas (resource)]	Mass	7,20E-03	kg	(Literature)
Natural gas Colombia [Natural gas (resource)]	Mass	1,45E-06	kg	Literature
Natural gas Denmark [Natural gas (resource)]	Mass	-1,17E-04	kg	(Estimated)
Natural gas Egypt [Natural gas (resource)]	Mass	1,99E-04	kg	(Estimated)
Natural gas France [Natural gas (resource)]	Mass	-2,15E-06	kg	(Estimated)
Natural gas Gabon [Natural gas (resource)]	Mass	8,47E-09	kg	(Estimated)
Natural gas Germany [Natural gas (resource)]	Mass	8,64E-04	kg	(Literature)
Natural gas Indonesia [Natural gas (resource)]	Mass	2,01E-06	kg	Estimated
Natural gas Iran [Natural gas (resource)]	Mass	1,40E-03	kg	(Estimated)
Natural gas Italy [Natural gas (resource)]	Mass	5,95E-05	kg	(Literature)
Natural gas Japan [Natural gas (resource)]	Mass	2,02E-14	kg	Estimated
Natural gas Kuwait [Natural gas (resource)]	Mass	6,91E-04	kg	(Estimated)
Natural gas Libyan [Natural gas (resource)]	Mass	1,49E-02	kg	Literature
Natural gas Malaysia [Natural gas (resource)]	Mass	6,09E-09	kg	Estimated

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Flow – Inputs	Quantity	Amount	Unit	Origin of data
Natural gas Mexico [Natural gas (resource)]	Mass	6,11E-06	kg	(Literature)
Natural gas Netherlands [Natural gas (resource)]	Mass	-2,52E-03	kg	(Literature)
Natural gas New Zealand [Natural gas (resource)]	Mass	1,22E-10	kg	Estimated
Natural gas Nigeria [Natural gas (resource)]	Mass	5,92E-03	kg	(Estimated)
Natural gas Norway [Natural gas (resource)]	Mass	5,65E-03	kg	(Literature)
Natural gas Oman [Natural gas (resource)]	Mass	1,68E-07	kg	Estimated
Natural gas Qatar [Natural gas (resource)]	Mass	3,29E-10	kg	(Estimated)
Natural gas Saudi Arabia [Natural gas (resource)]	Mass	5,52E-03	kg	(Estimated)
Natural gas Spain [Natural gas (resource)]	Mass	1,83E-10	kg	Estimated
Natural gas Tunisia [Natural gas (resource)]	Mass	1,01E-07	kg	Literature
Natural gas United Arab Emirates [Natural gas (resource)]	Mass	9,91E-08	kg	(Estimated)
Natural gas United Kingdom [Natural gas (resource)]	Mass	6,02E-03	kg	(Estimated)
Natural gas USA [Natural gas (resource)]	Mass	5,29E-04	kg	(Literature)
Natural gas Venezuela [Natural gas (resource)]	Mass	3,69E-03	kg	Literature
Nickel [Non renewable elements]	Mass	9,78E-03	kg	(No statement)
Nickel ore (1.6%) [Non renewable resources]	Mass	4,07E-05	kg	Measured
Nitrogen [Renewable resources]	Mass	3,26E-08	kg	(Literature)
Occup. as Convent. arable land [Hemeroby]	Areatime	2,85E-01	m2*yr	(No statement)
Occupation, arable, non-irrigated [Hemerobie ecoinvent]	Areatime	2,88E-01	m2*yr	(No statement)
Occupation, construction site [Hemerobie ecoinvent]	Areatime	2,25E-03	m2*yr	(No statement)
Occupation, dump site [Hemerobie ecoinvent]	Areatime	2,06E-02	m2*yr	(No statement)
Occupation, dump site, benthos [Hemerobie ecoinvent]	Areatime	1,21E-03	m2*yr	(No statement)
Occupation, forest, intensive [Hemerobie ecoinvent]	Areatime	1,60E+01	m2*yr	(No statement)
Occupation, forest, intensive, normal [Hemerobie ecoinvent]	Areatime	2,88E+00	m2*yr	(No statement)
Occupation, industrial area [Hemerobie ecoinvent]	Areatime	1,18E-02	m2*yr	(No statement)
Occupation, industrial area, benthos [Hemerobie ecoinvent]	Areatime	1,07E-05	m2*yr	(No statement)
Occupation, industrial area, built up [Hemerobie ecoinvent]	Areatime	1,31E-02	m2*yr	(No statement)
Occupation, industrial area, vegetation [Hemerobie ecoinvent]	Areatime	7,15E-03	m2*yr	(No statement)
Occupation, mineral extraction site [Hemerobie ecoinvent]	Areatime	1,26E-02	m2*yr	(No statement)
Occupation, permanent crop, fruit, intensive [Hemerobie ecoinvent]	Areatime	1,50E-01	m2*yr	(No statement)
Occupation, shrub land, sclerophyllous [Hemerobie ecoinvent]	Areatime	1,05E-03	m2*yr	(No statement)
Occupation, traffic area, rail embankment [Hemerobie ecoinvent]	Areatime	2,59E-03	m2*yr	(No statement)
Occupation, traffic area, rail network [Hemerobie ecoinvent]	Areatime	2,86E-03	m2*yr	(No statement)
Occupation, traffic area, road embankment [Hemerobie ecoinvent]	Areatime	2,95E-01	m2*yr	(No statement)
Occupation, traffic area, road network [Hemerobie ecoinvent]	Areatime	2,31E-02	m2*yr	(No statement)
Occupation, urban, discontinuously built [Hemerobie ecoinvent]	Areatime	6,85E-04	m2*yr	(No statement)
Occupation, water bodies, artificial [Hemerobie ecoinvent]	Areatime	1,45E-01	m2*yr	(No statement)
Occupation, water courses, artificial [Hemerobie ecoinvent]	Areatime	3,17E-02	m2*yr	(No statement)
Olivine [Non renewable resources]	Mass	5,50E-07	kg	(No statement)
Palladium [Non renewable elements]	Mass	1,44E-08	kg	(No statement)
Peat [Renewable resources]	Mass	4,05E-01	kg	(No statement)

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Flow – Inputs	Quantity	Amount	Unit	Origin of data
Phosphate ore [Non renewable resources]	Mass	2,55E-02	kg	(Literature)
Phosphorus [Non renewable elements]	Mass	2,35E-03	kg	(No statement)
Phosphorus minerals [Non renewable resources]	Mass	2,33E-04	kg	Literature
Pit gas [Natural gas (resource)]	Mass	2,42E-02	kg	(Literature)
Platinum [Non renewable elements]	Mass	1,89E-09	kg	(No statement)
Potassium chloride [Non renewable resources]	Mass	2,22E-04	kg	(Literature)
Precious metal ore (R.O.M) [Non renewable resources]	Mass	1,37E-07	kg	(No statement)
Primary energy from geothermics [Renewable energy resources]	Energy ren.	1,09E-04	MJ	Estimated
Primary energy from hydro power (BUWAL) [Renewable energy resources]	Energy ren.	8,31E-03	MJ	Literature
Primary energy from hydro power [Renewable energy resources]	Energy ren.	1,05E+02	MJ	(Literature)
Primary energy from solar energy [Renewable energy resources]	Energy ren.	1,74E+00	MJ	(Estimated)
Primary energy from wind power [Renewable energy resources]	Energy ren.	6,96E+00	MJ	Calculated
Process and cooling water [Operating materials]	Mass	1,33E-10	kg	Literature
Process water [Operating materials]	Mass	1,56E-02	kg	(Measured)
Quartz sand (silica sand; silicon dioxide) [Non renewable resources]	Mass	1,70E-06	kg	(Literature)
Raw brown coal (BUWAL) [Lignite (resource)]	Mass	3,06E-04	kg	Literature
Raw hard coal (BUWAL) [Hard coal (resource)]	Mass	2,31E-04	kg	Literature
Raw natural gas (BUWAL) [Natural gas (resource)]	Mass	1,27E-03	kg	Literature
Renewable fuels [Renewable energy resources]	Mass	5,72E-05	kg	Calculated
Rhenium [Non renewable elements]	Mass	6,78E-11	kg	(No statement)
Rhodium [Non renewable elements]	Mass	4,00E-10	kg	(No statement)
Rutile (titanium ore) [Non renewable resources]	Mass	2,24E-08	kg	(No statement)
sand [Non renewable resources]	Mass	1,11E-04	kg	(No statement)
Selenium [Non renewable elements]	Mass	4,25E-08	kg	Literature
Silver [Non renewable elements]	Mass	2,41E-09	kg	(No statement)
Slate [Non renewable resources]	Mass	4,97E-06	kg	(No statement)
Sodium chloride (rock salt) [Non renewable resources]	Mass	4,21E-01	kg	(Literature)
Sodium hypochlorite [Inorganic emissions to fresh water]	Mass	5,59E-12	kg	(No statement)
Sodium sulphate [Non renewable resources]	Mass	7,95E-04	kg	(No statement)
Soil [Non renewable resources]	Mass	4,26E-04	kg	Calculated
Steel scrap (St) [Waste for recovery]	Mass	2,46E-12	kg	Calculated
Sulphite [Inorganic emissions to sea water]	Mass	1,60E-15	kg	(No statement)
Sulphur (bonded) [Non renewable resources]	Mass	3,46E-09	kg	(Literature)
Sulphur [Non renewable elements]	Mass	1,66E-04	kg	(Literature)
Sylvite (25% in Sylvinite) [Non renewable resources]	Mass	3,04E-03	kg	(No statement)
Talc [Non renewable resources]	Mass	1,88E-02	kg	(No statement)
Tin [Non renewable elements]	Mass	5,50E-06	kg	(No statement)
Titanium dioxide [Non renewable resources]	Mass	1,82E-03	kg	(No statement)
Titanium ore [Non renewable resources]	Mass	7,93E-11	kg	(No statement)
Transformation, from arable [Hemerobie ecoinvent]	Area	1,85E-05	sqm	(No statement)
Transformation, from arable, non-irrigated [Hemerobie ecoinvent]	Area	5,30E-01	sqm	(No statement)
Transformation, from arable, non-irrigated, fallow [Hemerobie ecoinvent]	Area	1,51E-06	sqm	(No statement)
Transformation, from dump site, inert material landfill [Hemerobie ecoinvent]	Area	5,15E-05	sqm	(No statement)
Transformation, from dump site, residual material landfill [Hemerobie ecoinvent]	Area	1,25E-04	sqm	(No statement)
Transformation, from dump site, sanitary landfill	Area	2,13E-05	sqm	(No statement)

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Flow – Inputs	Quantity	Amount	Unit	Origin of data
[Hemerobie ecoinvent]				
Transformation, from dump site, slag compartment [Hemerobie ecoinvent]	Area	1,10E-05	sqm	(No statement)
Transformation, from forest [Hemerobie ecoinvent]	Area	2,52E-03	sqm	(No statement)
Transformation, from forest, extensive [Hemerobie ecoinvent]	Area	1,34E-01	sqm	(No statement)
Transformation, from industrial area [Hemerobie ecoinvent]	Area	3,47E-05	sqm	(No statement)
Transformation, from industrial area, benthos [Hemerobie ecoinvent]	Area	1,02E-07	sqm	(No statement)
Transformation, from industrial area, built up [Hemerobie ecoinvent]	Area	1,31E-07	sqm	(No statement)
Transformation, from industrial area, vegetation [Hemerobie ecoinvent]	Area	2,24E-07	sqm	(No statement)
Transformation, from mineral extraction site [Hemerobie ecoinvent]	Area	3,11E-04	sqm	(No statement)
Transformation, from pasture and meadow [Hemerobie ecoinvent]	Area	5,63E-04	sqm	(No statement)
Transformation, from pasture and meadow, intensive [Hemerobie ecoinvent]	Area	4,27E-04	sqm	(No statement)
Transformation, from sea and ocean [Hemerobie ecoinvent]	Area	1,21E-03	sqm	(No statement)
Transformation, from shrub land, sclerophyllous [Hemerobie ecoinvent]	Area	3,99E-04	sqm	(No statement)
Transformation, from unknown [Hemerobie ecoinvent]	Area	3,68E-03	sqm	(No statement)
Transformation, to arable [Hemerobie ecoinvent]	Area	2,19E-04	sqm	(No statement)
Transformation, to arable, non-irrigated [Hemerobie ecoinvent]	Area	5,31E-01	sqm	(No statement)
Transformation, to arable, non-irrigated, fallow [Hemerobie ecoinvent]	Area	2,75E-06	sqm	(No statement)
Transformation, to dump site [Hemerobie ecoinvent]	Area	1,25E-04	sqm	(No statement)
Transformation, to dump site, benthos [Hemerobie ecoinvent]	Area	1,21E-03	sqm	(No statement)
Transformation, to dump site, inert material landfill [Hemerobie ecoinvent]	Area	5,15E-05	sqm	(No statement)
Transformation, to dump site, residual material landfill [Hemerobie ecoinvent]	Area	1,25E-04	sqm	(No statement)
Transformation, to dump site, sanitary landfill [Hemerobie ecoinvent]	Area	2,13E-05	sqm	(No statement)
Transformation, to dump site, slag compartment [Hemerobie ecoinvent]	Area	1,10E-05	sqm	(No statement)
Transformation, to forest [Hemerobie ecoinvent]	Area	4,29E-04	sqm	(No statement)
Transformation, to forest, intensive [Hemerobie ecoinvent]	Area	1,07E-01	sqm	(No statement)
Transformation, to forest, intensive, normal [Hemerobie ecoinvent]	Area	2,33E-02	sqm	(No statement)
Transformation, to heterogeneous, agricultural [Hemerobie ecoinvent]	Area	1,21E-04	sqm	(No statement)
Transformation, to industrial area [Hemerobie ecoinvent]	Area	1,67E-04	sqm	(No statement)
Transformation, to industrial area, benthos [Hemerobie ecoinvent]	Area	6,35E-07	sqm	(No statement)
Transformation, to industrial area, built up [Hemerobie ecoinvent]	Area	2,60E-04	sqm	(No statement)
Transformation, to industrial area, vegetation [Hemerobie ecoinvent]	Area	1,49E-04	sqm	(No statement)
Transformation, to mineral extraction site [Hemerobie ecoinvent]	Area	3,97E-03	sqm	(No statement)
Transformation, to pasture and meadow [Hemerobie	Area	1,86E-05	sqm	(No statement)

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Flow – Inputs	Quantity	Amount	Unit	Origin of data
ecoinvent]				
Transformation, to permanent crop, fruit, intensive [Hemerobie ecoinvent]	Area	2,38E-03	sqm	(No statement)
Transformation, to sea and ocean [Hemerobie ecoinvent]	Area	1,02E-07	sqm	(No statement)
Transformation, to shrub land, sclerophyllous [Hemerobie ecoinvent]	Area	2,09E-04	sqm	(No statement)
Transformation, to traffic area, rail embankment [Hemerobie ecoinvent]	Area	6,02E-06	sqm	(No statement)
Transformation, to traffic area, rail network [Hemerobie ecoinvent]	Area	6,62E-06	sqm	(No statement)
Transformation, to traffic area, road embankment [Hemerobie ecoinvent]	Area	1,99E-03	sqm	(No statement)
Transformation, to traffic area, road network [Hemerobie ecoinvent]	Area	1,65E-04	sqm	(No statement)
Transformation, to unknown [Hemerobie ecoinvent]	Area	3,21E-05	sqm	(No statement)
Transformation, to urban, discontinuously built [Hemerobie ecoinvent]	Area	1,36E-05	sqm	(No statement)
Transformation, to water bodies, artificial [Hemerobie ecoinvent]	Area	1,25E-03	sqm	(No statement)
Transformation, to water courses, artificial [Hemerobie ecoinvent]	Area	3,87E-04	sqm	(No statement)
Ulexite [Non renewable resources]	Mass	3,37E-06	kg	(No statement)
Binders (resins), diazo compounds and colouring agents [STFI-PF import] - Not followed from the cradle,	Mass	2,34E-01	kg	Estimated
Uranium free ore (BUWAL) [Uranium (resource)]	Mass	3,42E-07	kg	Literature
Uranium natural [Uranium (resource)]	Mass	1,90E-04	kg	(Literature)
Water (feed water) [Water]	Mass	2,24E-04	kg	(Literature)
Water (ground water) [Water]	Mass	7,81E+01	kg	Literature
Water (lake water) [Water]	Mass	5,43E-01	kg	(No statement)
Water (river water) [Water]	Mass	7,84E+01	kg	(No statement)
Water (sea water) [Water]	Mass	1,36E+01	kg	(No statement)
Water (surface water) [Water]	Mass	1,32E+00	kg	(Calculated)
Water [Water]	Mass	1,25E+03	kg	(Literature)
Water for industrial use [Operating materials]	Mass	2,53E-04	kg	Calculated
Water, salt, sole [in water]	Volume	1,19E-03	m3	(No statement)
Water,turbine use, unspecified natural origin [in water]	Volume	3,37E+02	m3	(No statement)
Vermiculite [Non renewable resources]	Mass	5,18E-07	kg	(No statement)
Volume occupied, final repository for low-active radioactive waste [Hemerobie ecoinvent]	Volume	3,81E-07	m3	(No statement)
Volume occupied, final repository for radioactive waste [Hemerobie ecoinvent]	Volume	9,70E-08	m3	(No statement)
Volume occupied, reservoir [Hemerobie ecoinvent]	Cubic meter years	2,47E+00	m3a	(No statement)
Volume occupied, underground deposit [Hemerobie ecoinvent]	Volume	4,05E-06	m3	(No statement)
Wood (BUWAL) [Renewable energy resources]	Mass	1,67E-01	kg	Literature
Wood [Renewable energy resources]	Mass	2,23E-05	kg	Calculated
Wood, hard, standing [biotic]	Volume	1,26E-03	m3	(No statement)
Wood, soft, standing [biotic]	Volume	1,32E-02	m3	(No statement)
Zinc - copper ore (4.07%-2.59%) [Non renewable resources]	Mass	2,45E-04	kg	Calculated
Zinc - lead - copper ore (12%-3%-2%) [Non renewable resources]	Mass	5,35E-05	kg	Calculated
Zinc [Non renewable elements]	Mass	1,39E-02	kg	(No statement)
Zinc ore (sulphide) [Non renewable resources]	Mass	5,89E-13	kg	Calculated

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Acenaphthene [Hydrocarbons to fresh water]	Mass	4,04E-10	kg	(No statement)
Acenaphthene [Hydrocarbons to sea water]	Mass	1,85E-10	kg	(No statement)
Acenaphthylene [Hydrocarbons to fresh water]	Mass	2,53E-11	kg	(No statement)
Acenaphthylene [Hydrocarbons to sea water]	Mass	1,15E-11	kg	(No statement)
Acentaphthene [Group NMVOC to air]	Mass	1,38E-11	kg	(No statement)
Acetaldehyde (Ethanal) [Group NMVOC to air]	Mass	6,12E-06	kg	(Literature)
Acetic acid [Group NMVOC to air]	Mass	8,71E-05	kg	(Literature)
Acetic acid [Hydrocarbons to fresh water]	Mass	6,95E-07	kg	(No statement)
Acetone (dimethylcetone) [Group NMVOC to air]	Mass	3,48E-06	kg	(Literature)
Acid (calculated as H+) [Inorganic emissions to fresh water]	Mass	1,05E-04	kg	(Literature)
Aclonifen [Pesticides to agricultural soil]	Mass	4,35E-07	kg	(No statement)
Acrolein [Group NMVOC to air]	Mass	2,76E-09	kg	(No statement)
Adsorbable organic halogen compounds (AOX) [Analytical measures to fresh water]	Mass	5,09E-04	kg	(Measured)
Adsorbable organic halogen compounds (AOX) [Analytical measures to sea water]	Mass	1,17E-08	kg	(No statement)
Aktinide (general) [Radioactive emissions to air]	Activity	4,70E-06	Bq	(No statement)
Aktinide (general) [Radioactive emissions to sea water]	Activity	5,32E-01	Bq	(No statement)
Aldehyde (unspecified) [Group NMVOC to air]	Mass	2,77E-07	kg	Literature
Alkane (unspecified) [Group NMVOC to air]	Mass	1,56E-04	kg	(Calculated)
Alkane (unspecified) [Hydrocarbons to fresh water]	Mass	8,45E-06	kg	(No statement)
Alkane (unspecified) [Hydrocarbons to sea water]	Mass	3,86E-06	kg	(No statement)
Alkene (unspecified) [Group NMVOC to air]	Mass	1,97E-04	kg	(Calculated)
Alkene (unspecified) [Hydrocarbons to fresh water]	Mass	7,80E-07	kg	(No statement)
Alkene (unspecified) [Hydrocarbons to sea water]	Mass	3,56E-07	kg	(No statement)
Aluminum [Fresh water]	Mass	7,43E-02	kg	(No statement)
Aluminum [Inorganic emissions to agricultural soil]	Mass	8,10E-05	kg	(No statement)
Aluminum [Inorganic emissions to fresh water]	Mass	1,42E-04	kg	(Literature)
Aluminum [Inorganic emissions to industrial soil]	Mass	5,53E-05	kg	(No statement)
Aluminum [Inorganic emissions to sea water]	Mass	1,52E-05	kg	(No statement)
Aluminum [Particles to air]	Mass	4,27E-04	kg	(No statement)
Aluminum scrap [Waste for recovery]	Mass	4,72E-13	kg	Measured
Americium (Am241) [Radioactive emissions to fresh water]	Activity	5,77E-04	Bq	Calculated
Ammonia [Inorganic emissions to air]	Mass	1,18E-03	kg	(Literature)
Ammonia [Inorganic emissions to fresh water]	Mass	2,57E-05	kg	(Measured)
Ammonium / ammonia [Fresh water]	Mass	5,04E-05	kg	(No statement)
Ammonium / ammonia [Inorganic emissions to fresh water]	Mass	5,68E-04	kg	(Literature)
Ammonium / ammonia [Inorganic emissions to sea water]	Mass	3,42E-06	kg	(No statement)
Ammonium [Inorganic emissions to air]	Mass	2,21E-14	kg	Measured
Ammonium carbonate [high population density]	Mass	1,09E-08	kg	(No statement)
Ammonium nitrate [Inorganic emissions to air]	Mass	2,04E-11	kg	(Literature)
Antimony (Sb122) [Radioactive emissions to fresh water]	Activity	5,39E-05	Bq	(No statement)
Antimony (Sb124) [Radioactive emissions to air]	Activity	4,67E-07	Bq	(Literature)
Antimony (Sb124) [Radioactive emissions to fresh water]	Activity	1,07E-01	Bq	(Literature)
Antimony (Sb125) [Radioactive emissions to air]	Activity	1,40E-06	Bq	(No statement)
Antimony (Sb125) [Radioactive emissions to fresh water]	Activity	1,43E-01	Bq	(Literature)
Antimony [Fresh water]	Mass	1,90E-05	kg	(No statement)
Antimony [Heavy metals to agricultural soil]	Mass	4,64E-12	kg	(No statement)
Antimony [Heavy metals to air]	Mass	2,53E-07	kg	(Calculated)
Antimony [Heavy metals to fresh water]	Mass	9,21E-06	kg	(No statement)

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Argon (Ar41) [Radioactive emissions to air]	Activity	8,88E+00	Bq	(Literature)
Aromatic hydrocarbons (unspecified) [Group NMVOC to air]	Mass	3,73E-05	kg	(Calculated)
Aromatic hydrocarbons (unspecified) [Hydrocarbons to fresh water]	Mass	3,56E-05	kg	Literature
Aromatic hydrocarbons (unspecified) [Hydrocarbons to sea water]	Mass	1,70E-05	kg	(No statement)
Arsenic [Fresh water]	Mass	3,07E-06	kg	(No statement)
Arsenic [Heavy metals to agricultural soil]	Mass	2,34E-08	kg	(No statement)
Arsenic [Heavy metals to air]	Mass	1,77E-06	kg	(Literature)
Arsenic [Heavy metals to fresh water]	Mass	1,25E-05	kg	(Literature)
Arsenic [Heavy metals to industrial soil]	Mass	2,21E-08	kg	(No statement)
Arsenic [Heavy metals to sea water]	Mass	6,42E-08	kg	(No statement)
Arsenic trioxide [Heavy metals to air]	Mass	2,93E-18	kg	Measured
Ash [Stockpile goods]	Mass	4,35E-04	kg	(Calculated)
Atrazine [Pesticides to agricultural soil]	Mass	3,58E-11	kg	(No statement)
Barium (Ba140) [Radioactive emissions to air]	Activity	9,08E-05	Bq	(No statement)
Barium (Ba140) [Radioactive emissions to fresh water]	Activity	2,36E-04	Bq	(No statement)
Barium [Fresh water]	Mass	2,04E-04	kg	(No statement)
Barium [Inorganic emissions to agricultural soil]	Mass	1,03E-09	kg	(No statement)
Barium [Inorganic emissions to air]	Mass	1,06E-05	kg	(Literature)
Barium [Inorganic emissions to fresh water]	Mass	6,37E-05	kg	(Literature)
Barium [Inorganic emissions to industrial soil]	Mass	2,77E-05	kg	(No statement)
Barium [Inorganic emissions to sea water]	Mass	2,59E-05	kg	(No statement)
Barytes [ocean]	Mass	7,52E-04	kg	(No statement)
Battery Li-Ion (E-Paper) [Flows]	Mass	1,27E-09	kg	Literature
Bentazone [Pesticides to agricultural soil]	Mass	2,21E-07	kg	(No statement)
Benzaldehyde [Group NMVOC to air]	Mass	9,71E-10	kg	(No statement)
Benzene [Group NMVOC to air]	Mass	2,40E-04	kg	(Estimated)
Benzene [Hydrocarbons to fresh water]	Mass	4,52E-05	kg	(Literature)
Benzene [Hydrocarbons to sea water]	Mass	2,54E-06	kg	(No statement)
Benzo{a}pyrene [Group PAH to air]	Mass	2,60E-07	kg	(Literature)
Beryllium [Fresh water]	Mass	6,84E-07	kg	(No statement)
Beryllium [Inorganic emissions to air]	Mass	1,98E-08	kg	(Calculated)
Beryllium [Inorganic emissions to fresh water]	Mass	3,19E-09	kg	Literature
Biological oxygen demand (BOD) [Analytical measures to fresh water]	Mass	2,92E-02	kg	(Literature)
Biological oxygen demand (BOD) [Analytical measures to sea water]	Mass	3,27E-03	kg	(No statement)
Biological oxygen demand, BSB5 (Ecoinvent) [Fresh water]	Mass	1,52E-02	kg	(No statement)
Blast furnace slag [Waste for recovery]	Mass	2,83E-07	kg	Calculated
Boiler ash (unspecified) [Waste for recovery]	Mass	-1,01E-04	kg	(Calculated)
Boron [Fresh water]	Mass	6,72E-05	kg	(No statement)
Boron [Inorganic emissions to air]	Mass	4,89E-05	kg	(No statement)
Boron [Inorganic emissions to fresh water]	Mass	5,64E-06	kg	(Literature)
Boron [Inorganic emissions to sea water]	Mass	2,54E-07	kg	(No statement)
Boron compounds (unspecified) [Inorganic emissions to air]	Mass	2,88E-05	kg	(Calculated)
Bromate [Inorganic emissions to fresh water]	Mass	6,18E-05	kg	(No statement)
Bromine [Fresh water]	Mass	9,16E-06	kg	(No statement)
Bromine [Inorganic emissions to air]	Mass	6,20E-06	kg	(Calculated)
Bromine [Inorganic emissions to fresh water]	Mass	8,50E-05	kg	(No statement)
Bromine [Inorganic emissions to sea water]	Mass	2,08E-05	kg	(No statement)

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Butadiene [Group NMVOC to air]	Mass	8,79E-13	kg	(No statement)
Butane (n-butane) [Group NMVOC to air]	Mass	-9,14E-07	kg	(Calculated)
Butane [Group NMVOC to air]	Mass	2,16E-04	kg	(Estimated)
Butene [Group NMVOC to air]	Mass	2,08E-06	kg	(No statement)
Butene [Hydrocarbons to fresh water]	Mass	8,44E-08	kg	(No statement)
Cadmium [Fresh water]	Mass	6,10E-06	kg	(No statement)
Cadmium [Heavy metals to agricultural soil]	Mass	8,65E-08	kg	(No statement)
Cadmium [Heavy metals to air]	Mass	8,96E-07	kg	(Literature)
Cadmium [Heavy metals to fresh water]	Mass	1,22E-05	kg	(Literature)
Cadmium [Heavy metals to industrial soil]	Mass	1,34E-07	kg	Calculated
Cadmium [Heavy metals to sea water]	Mass	2,19E-08	kg	(No statement)
CaF2 (low radioactice) [Radioactive waste]	Mass	7,20E-08	kg	(Literature)
Calcium [Fresh water]	Mass	1,42E-01	kg	(No statement)
Calcium [Inorganic emissions to fresh water]	Mass	5,53E-03	kg	(Literature)
Calcium [Inorganic emissions to sea water]	Mass	1,53E-03	kg	(No statement)
Carbetamide [Pesticides to agricultural soil]	Mass	1,32E-07	kg	(No statement)
Carbon (C14) [Radioactive emissions to air]	Activity	3,19E+02	Bq	(Literature)
Carbon (C14) [Radioactive emissions to fresh water]	Activity	3,76E-02	Bq	(Calculated)
Carbon (unspecified) [Organic emissions to agricultural soil]	Mass	2,85E-04	kg	(No statement)
Carbon (unspecified) [Organic emissions to industrial soil]	Mass	1,66E-04	kg	(No statement)
Carbon dioxide (biotic) [Air]	Mass	1,07E+01	kg	(No statement)
Carbon dioxide [Inorganic emissions to air]	Mass	1,77E+01	kg	(Literature)
Carbon disulphide [Inorganic emissions to air]	Mass	4,52E-05	kg	(No statement)
Carbon monoxide (biotic) [Air]	Mass	2,68E-03	kg	(No statement)
Carbon monoxide [Inorganic emissions to air]	Mass	6,90E-02	kg	(Literature)
Carbon tetrachloride (tetrachloromethane) [Halogenated organic emissions to air]	Mass	7,21E-08	kg	(No statement)
Carbon, organically bound [Organic emissions to fresh water]	Mass	2,78E-03	kg	Calculated
Carbonate [Inorganic emissions to fresh water]	Mass	1,36E-04	kg	(Literature)
Cerium (Ce141) [Radioactive emissions to air]	Activity	2,20E-05	Bq	(No statement)
Cerium (Ce141) [Radioactive emissions to fresh water]	Activity	9,45E-05	Bq	(No statement)
Cerium (Ce144) [Radioactive emissions to fresh water]	Activity	2,88E-05	Bq	(No statement)
Cesium (Cs134) [Radioactive emissions to air]	Activity	1,61E-04	Bq	(Literature)
Cesium (Cs134) [Radioactive emissions to fresh water]	Activity	2,82E-01	Bq	(Literature)
Cesium (Cs136) [Radioactive emissions to fresh water]	Activity	1,68E-05	Bq	(No statement)
Cesium (Cs137) [Radioactive emissions to air]	Activity	3,47E-04	Bq	(Literature)
Cesium (Cs137) [Radioactive emissions to fresh water]	Activity	6,17E-01	Bq	(Literature)
Cesium (Cs137) [Radioactive emissions to sea water]	Activity	6,10E+01	Bq	(No statement)
Cesium [Heavy metals to fresh water]	Mass	6,50E-08	kg	(No statement)
Cesium [Heavy metals to sea water]	Mass	2,97E-08	kg	(No statement)
Chemical oxygen demand (COD) [Analytical measures to fresh water]	Mass	8,25E-02	kg	(Literature)
Chemical oxygen demand (COD) [Analytical measures to sea water]	Mass	3,32E-03	kg	(No statement)
Chemical oxygen demand, CSB (Ecoinvent) [Fresh water]	Mass	4,85E-02	kg	(No statement)
Chlorate [Inorganic emissions to fresh water]	Mass	4,80E-04	kg	(No statement)
Chloride (unspecified) [Inorganic emissions to air]	Mass	6,70E-09	kg	(Measured)
Chloride [Fresh water]	Mass	4,37E-03	kg	(No statement)
Chloride [Inorganic emissions to fresh water]	Mass	1,91E-01	kg	(Literature)
Chloride [Inorganic emissions to sea water]	Mass	1,49E-02	kg	(No statement)

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Chlorinated hydrocarbons (unspecified) [Halogenated organic emissions to fresh water]	Mass	1,38E-09	kg	Literature
Chlorine (dissolved) [Inorganic emissions to fresh water]	Mass	2,17E-06	kg	Literature
Chlorine [Inorganic emissions to agricultural soil]	Mass	1,03E-05	kg	(No statement)
Chlorine [Inorganic emissions to air]	Mass	6,14E-05	kg	(Literature)
Chlorine [Inorganic emissions to industrial soil]	Mass	3,53E-03	kg	(No statement)
Chloromethane (methyl chloride) [Halogenated organic emissions to air]	Mass	6,25E-13	kg	(No statement)
Chloromethane (methyl chloride) [Halogenated organic emissions to fresh water]	Mass	1,65E-06	kg	(Literature)
Chlorothalonil [Pesticides to agricultural soil]	Mass	5,37E-05	kg	(No statement)
Chlorous dissolvent [Halogenated organic emissions to fresh water]	Mass	2,36E-07	kg	(No statement)
Chlorous dissolvent [Halogenated organic emissions to sea water]	Mass	1,36E-14	kg	(No statement)
Chromium (Cr51) [Radioactive emissions to air]	Activity	1,41E-06	Bq	(No statement)
Chromium (Cr51) [Radioactive emissions to fresh water]	Activity	1,21E-01	Bq	(No statement)
Chromium (unspecified) [Heavy metals to agricultural soil]	Mass	1,55E-06	kg	(No statement)
Chromium (unspecified) [Heavy metals to air]	Mass	1,36E-05	kg	(Literature)
Chromium (unspecified) [Heavy metals to fresh water]	Mass	6,80E-07	kg	(Literature)
Chromium (unspecified) [Heavy metals to industrial soil]	Mass	3,94E-07	kg	(No statement)
Chromium +III [Heavy metals to fresh water]	Mass	1,38E-07	kg	(Literature)
Chromium +III [Heavy metals to industrial soil]	Mass	1,83E-06	kg	Calculated
Chromium +VI [Fresh water]	Mass	3,39E-05	kg	(No statement)
Chromium +VI [Heavy metals to air]	Mass	3,37E-07	kg	(No statement)
Chromium +VI [Heavy metals to fresh water]	Mass	1,82E-05	kg	Literature
Chromium +VI [Heavy metals to industrial soil]	Mass	6,96E-06	kg	(No statement)
Chromium containing slag [Hazardous waste for disposal]	Mass	3,97E-19	kg	Calculated
Cobalt (Co57) [Radioactive emissions to fresh water]	Activity	5,32E-04	Bq	(No statement)
Cobalt (Co58) [Radioactive emissions to air]	Activity	3,29E-06	Bq	(Literature)
Cobalt (Co58) [Radioactive emissions to fresh water]	Activity	9,20E-01	Bq	(Literature)
Cobalt (Co60) [Radioactive emissions to air]	Activity	4,60E-05	Bq	(Literature)
Cobalt (Co60) [Radioactive emissions to fresh water]	Activity	8,28E-01	Bq	(Literature)
Cobalt [Fresh water]	Mass	4,00E-05	kg	(No statement)
Cobalt [Heavy metals to agricultural soil]	Mass	6,55E-08	kg	(No statement)
Cobalt [Heavy metals to air]	Mass	7,59E-07	kg	(Literature)
Cobalt [Heavy metals to fresh water]	Mass	1,47E-07	kg	(No statement)
Cobalt [Heavy metals to sea water]	Mass	1,84E-09	kg	(No statement)
Cooling water [Waste for recovery]	Mass	1,40E+00	kg	(Measured)
Copper [Fresh water]	Mass	1,28E-03	kg	(No statement)
Copper [Heavy metals to agricultural soil]	Mass	2,11E-06	kg	(No statement)
Copper [Heavy metals to air]	Mass	8,63E-06	kg	(Literature)
Copper [Heavy metals to fresh water]	Mass	2,76E-05	kg	(Literature)
Copper [Heavy metals to industrial soil]	Mass	6,15E-06	kg	Calculated
Copper [Heavy metals to sea water]	Mass	5,81E-08	kg	(No statement)
Cumene (isopropylbenzene) [Group NMVOC to air]	Mass	1,74E-05	kg	(No statement)
Cumene (isopropylbenzene) [Organic emissions to fresh water]	Mass	4,18E-05	kg	(No statement)
Curium (Cm alpha) [Radioactive emissions to fresh water]	Activity	7,64E-04	Bq	Calculated
Cyanide (unspecified) [Inorganic emissions to air]	Mass	3,27E-05	kg	(No statement)
Cyanide [Inorganic emissions to fresh water]	Mass	7,52E-05	kg	(Literature)
Cyanide [Inorganic emissions to sea water]	Mass	1,10E-07	kg	(No statement)

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Cycloalkanes (unspec.) [Group NMVOC to air]	Mass	3,64E-08	kg	(No statement)
Cypermethrin [Pesticides to agricultural soil]	Mass	4,42E-09	kg	(No statement)
Detergent (unspecified) [Other emissions to fresh water]	Mass	1,02E-11	kg	(Literature)
Dichloroethane (ethylene dichloride) [Halogenated organic emissions to air]	Mass	1,13E-05	kg	(No statement)
Dichloroethane (ethylene dichloride) [Halogenated organic emissions to fresh water]	Mass	2,63E-05	kg	(No statement)
Dichloromethane (methylene chloride) [Halogenated organic emissions to air]	Mass	1,11E-10	kg	(No statement)
Dichloromethane (methylene chloride) [Halogenated organic emissions to fresh water]	Mass	1,40E-06	kg	(No statement)
Dichromate [river]	Mass	1,84E-07	kg	(No statement)
Diethyl amine (ethylene ethane amine) [Group NMVOC to air]	Mass	5,53E-19	kg	Measured
Different pollutants [Other emissions to agricultural soil]	Mass	1,54E-03	kg	(No statement)
Different pollutants [Other emissions to industrial soil]	Mass	4,85E-04	kg	(No statement)
Dinoseb [Pesticides to agricultural soil]	Mass	1,46E-05	kg	(No statement)
Dissolved organic carbon, DOC (Ecoinvent) [Fresh water]	Mass	2,30E-02	kg	(No statement)
Dross [Waste for recovery]	Mass	8,09E-11	kg	(Measured)
Dust (> PM10) [Particles to air]	Mass	9,78E-03	kg	(No statement)
Dust (combustion) [Particles to air]	Mass	1,17E-03	kg	Literature
Dust (PM2,5 - PM10) [Particles to air]	Mass	2,30E-03	kg	(No statement)
Dust (PM2.5) [Particles to air]	Mass	6,08E-03	kg	(No statement)
Dust (unspecified) [Particles to air]	Mass	5,08E-03	kg	(Literature)
Ethane [Group NMVOC to air]	Mass	6,85E-04	kg	(Literature)
Ethanol [Group NMVOC to air]	Mass	5,61E-06	kg	(Literature)
Ethene (ethylene) [Group NMVOC to air]	Mass	1,46E-04	kg	Calculated
Ethene (ethylene) [Hydrocarbons to fresh water]	Mass	2,88E-06	kg	(No statement)
Ethine (acetylene) [Group NMVOC to air]	Mass	2,29E-05	kg	(No statement)
Ethyl benzene [Group NMVOC to air]	Mass	3,65E-06	kg	(Calculated)
Ethyl benzene [Hydrocarbons to fresh water]	Mass	3,52E-06	kg	(Literature)
Ethyl benzene [Hydrocarbons to sea water]	Mass	7,12E-07	kg	(No statement)
Ethylene oxide [Group NMVOC to air]	Mass	2,18E-07	kg	(No statement)
Ethylene oxide [Hydrocarbons to fresh water]	Mass	4,34E-09	kg	(No statement)
Ethylenediamine [Group NMVOC to air]	Mass	6,25E-06	kg	(No statement)
Ethylenediamine [Organic emissions to fresh water]	Mass	1,52E-05	kg	(No statement)
Exhaust [Other emissions to air]	Mass	-7,91E-01	kg	(Calculated)
Fatty acid, free [Materials from renewable raw materials]	Mass	1,06E-03	kg	Estimated
Fatty acids (calculated as total carbon) [Hydrocarbons to fresh water]	Mass	2,39E-04	kg	(No statement)
Fatty acids (calculated as total carbon) [Hydrocarbons to sea water]	Mass	1,79E-04	kg	(No statement)
Fenpiclonil [Pesticides to agricultural soil]	Mass	2,13E-06	kg	(No statement)
Filter dust (heavy fuel oil power plant) [Waste for recovery]	Mass	3,62E-09	kg	Calculated
Filter dust [Hazardous waste]	Mass	6,97E-09	kg	Calculated
Fluoride (unspecified) [Inorganic emissions to air]	Mass	3,22E-07	kg	(Literature)
Fluoride [Fresh water]	Mass	1,05E-04	kg	(No statement)
Fluoride [Inorganic emissions to fresh water]	Mass	6,73E-05	kg	(Literature)
Fluoride [Inorganic emissions to industrial soil]	Mass	7,48E-06	kg	(No statement)
Fluoride [Inorganic emissions to sea water]	Mass	9,41E-06	kg	(No statement)
Fluorides [Inorganic emissions to air]	Mass	6,63E-08	kg	(Calculated)
Fluorine [Inorganic emissions to air]	Mass	2,89E-06	kg	Literature
Fluorine [Inorganic emissions to fresh water]	Mass	6,55E-08	kg	(Calculated)

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Fly ash (unspecified) [Waste for recovery]	Mass	-6,26E-04	kg	(Calculated)
Formaldehyde (methanal) [Group NMVOC to air]	Mass	4,19E-05	kg	(Literature)
Formaldehyde (methanal) [Hydrocarbons to fresh water]	Mass	3,30E-05	kg	(No statement)
Furnace clinker [Waste for recovery]	Mass	7,43E-14	kg	Calculated
Glutaraldehyde [Hydrocarbons to sea water]	Mass	9,28E-08	kg	(No statement)
Glyphosate [Pesticides to agricultural soil]	Mass	7,68E-08	kg	(No statement)
Glyphosate [Pesticides to industrial soil]	Mass	1,74E-07	kg	(No statement)
Gypsum (contaminated) [Waste for recovery]	Mass	4,65E-03	kg	Literature
Gypsum (FDI) [Waste for recovery]	Mass	-3,56E-04	kg	(Calculated)
Gypsum [Waste for recovery]	Mass	1,74E-04	kg	(Calculated)
Halogenated hydrocarbons (unspecified) [Halogenated organic emissions to air]	Mass	2,29E-11	kg	Literature
Halon (1211) [Halogenated organic emissions to air]	Mass	1,52E-07	kg	(No statement)
Halon (1301) [Halogenated organic emissions to air]	Mass	2,26E-07	kg	(Literature)
Hazardous waste (unspec.) [Hazardous waste]	Mass	1,18E-02	kg	(Literature)
Hazardous waste for recovery (unspec.) [Hazardous waste for recovery]	Mass	3,34E-02	kg	Literature
Heat from natural gas [Flows]	Energy	1,63E-10	MJ	Calculated
Heat from oil [Flows]	Energy	1,47E-09	MJ	Measured
Heat from waste [Flows]	Energy	1,57E-09	MJ	(Literature)
Heavy fuel oil [Crude oil products]	Mass	1,29E-09	kg	Calculated
Heavy metals to water (unspecified) [Heavy metals to fresh water]	Mass	1,50E-07	kg	(Measured)
Helium [Inorganic emissions to air]	Mass	5,83E-05	kg	(Literature)
Heptane (isomers) [Group NMVOC to air]	Mass	2,04E-05	kg	(No statement)
Hexachlorobenzene (Perchlorobenzene) [Halogenated organic emissions to air]	Mass	4,65E-09	kg	(No statement)
Hexaflourosilicates [Air]	Mass	1,29E-07	kg	(No statement)
Hexaflourosilicates [Sweet-]	Mass	2,32E-07	kg	(No statement)
Hexane (isomers) [Group NMVOC to air]	Mass	1,04E-04	kg	(Literature)
Highly radioactive waste [Radioactive waste]	Mass	1,66E-07	kg	Calculated
Highly-active fission product solution [Radioactive waste]	Mass	1,44E-08	kg	(Calculated)
Housing (E-Paper) [Flows]	Mass	1,61E-03	kg	(Literature)
Hydrocarbons (unspecified) [Hydrocarbons to fresh water]	Mass	1,64E-05	kg	(Literature)
Hydrocarbons (unspecified) [Hydrocarbons to sea water]	Mass	1,41E-05	kg	(No statement)
Hydrocarbons (unspecified) [Organic emissions to air (group VOC)]	Mass	1,38E-03	kg	Literature
Hydrocarbons, aromatic [Group NMVOC to air]	Mass	1,74E-05	kg	(No statement)
Hydrocarbons, chloro-/fluoro- [Halogenated organic emissions to air]	Mass	9,42E-07	kg	(No statement)
Hydrocarbons, halogenated [Halogenated organic emissions to air]	Mass	1,81E-07	kg	(No statement)
Hydrogen (H3) [Radioactive emissions to air]	Activity	1,97E+03	Bq	(Literature)
Hydrogen (H3) [Radioactive emissions to fresh water]	Activity	1,60E+04	Bq	(Literature)
Hydrogen (H3) [Radioactive emissions to sea water]	Activity	1,27E+05	Bq	(No statement)
Hydrogen [Inorganic emissions to air]	Mass	5,13E-04	kg	(Measured)
Hydrogen arsenic (arsine) [Heavy metals to air]	Mass	2,43E-16	kg	Measured
Hydrogen chloride [Inorganic emissions to air]	Mass	4,76E-04	kg	(Literature)
Hydrogen cyanide (prussic acid) [Inorganic emissions to air]	Mass	3,34E-11	kg	Calculated
Hydrogen fluoride (hydrofluoric acid) [Inorganic emissions to fresh water]	Mass	7,50E-13	kg	Measured
Hydrogen fluoride [Inorganic emissions to air]	Mass	9,34E-05	kg	(Literature)
Hydrogen peroxide [Sweet-]	Mass	1,30E-04	kg	(No statement)

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Hydrogen sulphide [Fresh water]	Mass	2,24E-04	kg	(No statement)
Hydrogen sulphide [Inorganic emissions to air]	Mass	1,25E-04	kg	(Literature)
Hydrogen sulphide [Inorganic emissions to fresh water]	Mass	7,94E-08	kg	(No statement)
Hydroxide [Inorganic emissions to fresh water]	Mass	3,87E-08	kg	(No statement)
Hypochlorite [Inorganic emissions to fresh water]	Mass	2,29E-06	kg	(No statement)
Hypochlorite [Inorganic emissions to sea water]	Mass	2,56E-06	kg	(No statement)
Iliad Module (E-Paper) [Flows]	Mass	7,05E-10	kg	(Estimated)
Incineration good [Waste for disposal]	Mass	9,23E-08	kg	(No statement)
Industrial waste for municipal disposal [Consumer waste]	Mass	6,11E-05	kg	(Literature)
inert chemical waste [Consumer waste]	Mass	2,10E-07	kg	(Literature)
Inert gases [Radioactive emissions to air]	Activity	3,15E+06	Bq	(No statement)
Inorganic salts and acids (unspecified) [Inorganic emissions to fresh water]	Mass	5,94E-04	kg	Literature
Iodide [Fresh water]	Mass	2,98E-10	kg	(No statement)
Iodide [Inorganic emissions to fresh water]	Mass	6,69E-06	kg	(No statement)
Iodide [Inorganic emissions to sea water]	Mass	2,97E-06	kg	(No statement)
Iodine (I129) [Radioactive emissions to air]	Activity	3,29E-01	Bq	Calculated
Iodine (I129) [Radioactive emissions to fresh water]	Activity	1,08E-01	Bq	(Calculated)
Iodine (I131) [Radioactive emissions to air]	Activity	3,00E+00	Bq	(Literature)
Iodine (I131) [Radioactive emissions to fresh water]	Activity	2,11E-02	Bq	(Literature)
Iodine (I133) [Radioactive emissions to air]	Activity	1,09E-04	Bq	(No statement)
Iodine (I133) [Radioactive emissions to fresh water]	Activity	1,48E-04	Bq	(No statement)
Iodine [Inorganic emissions to air]	Mass	1,15E-06	kg	(No statement)
Iron (Fe59) [Radioactive emissions to fresh water]	Activity	4,08E-05	Bq	(No statement)
Iron [Fresh water]	Mass	1,79E-02	kg	(No statement)
Iron [Heavy metals to agricultural soil]	Mass	2,01E-04	kg	(No statement)
Iron [Heavy metals to air]	Mass	8,22E-05	kg	(Literature)
Iron [Heavy metals to fresh water]	Mass	2,14E-03	kg	(Literature)
Iron [Heavy metals to industrial soil]	Mass	6,76E-04	kg	(No statement)
Iron [Heavy metals to sea water]	Mass	1,62E-06	kg	(No statement)
Isocyanide acid [Air]	Mass	1,42E-06	kg	(No statement)
Jacket and body material [Radioactive waste]	Mass	8,64E-09	kg	(Calculated)
Krypton (Kr85) [Radioactive emissions to air]	Activity	2,79E+04	Bq	(Literature)
Krypton (Kr85m) [Radioactive emissions to air]	Activity	1,71E+00	Bq	(Literature)
Krypton (Kr87) [Radioactive emissions to air]	Activity	5,78E-01	Bq	(No statement)
Krypton (Kr88) [Radioactive emissions to air]	Activity	6,09E-01	Bq	(No statement)
Krypton (Kr89) [Radioactive emissions to air]	Activity	1,82E-01	Bq	(No statement)
Lanthanides [Heavy metals to air]	Mass	1,64E-11	kg	(Calculated)
Lanthanum (La140) [Radioactive emissions to fresh water]	Activity	2,52E-04	Bq	(No statement)
Lanthanum (La141) [Radioactive emissions to air]	Activity	7,76E-06	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to air]	Activity	9,87E-01	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to fresh water]	Activity	5,08E-01	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to sea water]	Activity	1,59E+00	Bq	(No statement)
Lead [Fresh water]	Mass	1,28E-04	kg	(No statement)
Lead [Heavy metals to agricultural soil]	Mass	5,00E-07	kg	(No statement)
Lead [Heavy metals to air]	Mass	1,49E-05	kg	(Literature)
Lead [Heavy metals to fresh water]	Mass	8,25E-05	kg	(Literature)
Lead [Heavy metals to industrial soil]	Mass	2,84E-06	kg	Calculated
Lead [Heavy metals to sea water]	Mass	2,70E-07	kg	(No statement)
Li-Ion Cell [Other parts]	Mass	7,95E-11	kg	Literature
Linuron [Pesticides to agricultural soil]	Mass	3,36E-06	kg	(No statement)
Liquid hazardous waste [Hazardous waste]	Mass	5,23E-07	kg	(Calculated)

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Liquid waste [Consumer waste]	Mass	6,40E-06	kg	(Calculated)
Lithiumerz (R.O.M) [Non renewable resources]	Mass	1,48E-06	kg	(Literature)
Magnesium [Fresh water]	Mass	1,25E-02	kg	(No statement)
Magnesium [Inorganic emissions to fresh water]	Mass	9,21E-04	kg	(Literature)
Magnesium [Inorganic emissions to sea water]	Mass	1,64E-04	kg	(No statement)
Magnesium chloride [Inorganic emissions to fresh water]	Mass	1,76E-14	kg	(No statement)
Mancozeb [Pesticides to agricultural soil]	Mass	6,99E-05	kg	(No statement)
Manganese (Mn54) [Radioactive emissions to air]	Activity	7,23E-07	Bq	(No statement)
Manganese (Mn54) [Radioactive emissions to fresh water]	Activity	8,18E-02	Bq	(Literature)
Manganese [Fresh water]	Mass	6,25E-03	kg	(No statement)
Manganese [Heavy metals to agricultural soil]	Mass	6,45E-05	kg	(No statement)
Manganese [Heavy metals to air]	Mass	1,07E-05	kg	(Calculated)
Manganese [Heavy metals to fresh water]	Mass	1,96E-04	kg	(Literature)
Manganese [Heavy metals to industrial soil]	Mass	2,21E-06	kg	(No statement)
Manganese [Heavy metals to sea water]	Mass	1,34E-06	kg	(No statement)
Medium and low radioactive liquid waste [Radioactive waste]	Mass	2,05E-08	kg	(Calculated)
Medium and low radioactive wastes [Radioactive waste]	Mass	2,01E-07	kg	(Literature)
Mercaptan (unspecified) [Group NMVOC to air]	Mass	1,02E-11	kg	(Literature)
Mercury [Fresh water]	Mass	2,32E-07	kg	(No statement)
Mercury [Heavy metals to agricultural soil]	Mass	1,67E-08	kg	(No statement)
Mercury [Heavy metals to air]	Mass	8,57E-07	kg	(Literature)
Mercury [Heavy metals to fresh water]	Mass	3,73E-07	kg	(Literature)
Mercury [Heavy metals to industrial soil]	Mass	1,83E-08	kg	Calculated
Mercury [Heavy metals to sea water]	Mass	1,37E-09	kg	(No statement)
Metal ions (unspecific) [Fresh water]	Mass	8,90E-04	kg	(No statement)
Metal ions (unspecific) [Inorganic emissions to fresh water]	Mass	1,14E-06	kg	(Measured)
Metaldehyde [Organic emissions to agricultural soil]	Mass	3,83E-08	kg	(No statement)
Metals (unspecified) [Particles to air]	Mass	1,71E-06	kg	(Literature)
Metals (unspecified) [Particles to fresh water]	Mass	9,64E-06	kg	(Literature)
Methane (biotic) [Air]	Mass	3,45E-03	kg	(No statement)
Methane [Organic emissions to air (group VOC)]	Mass	3,77E-02	kg	(Literature)
Methanol [Group NMVOC to air]	Mass	4,43E-05	kg	(Literature)
Methanol [Hydrocarbons to fresh water]	Mass	2,73E-06	kg	(Measured)
Methanol [Hydrocarbons to sea water]	Mass	1,75E-06	kg	(No statement)
Methyl tert-butylether [Group NMVOC to air]	Mass	8,78E-08	kg	(No statement)
Methyl tert-butylether [Hydrocarbons to fresh water]	Mass	1,37E-09	kg	(No statement)
Methyl tert-butylether [Hydrocarbons to sea water]	Mass	2,01E-07	kg	(No statement)
Metolachlor [Pesticides to agricultural soil]	Mass	2,43E-05	kg	(No statement)
Metribuzin [Pesticides to agricultural soil]	Mass	2,46E-06	kg	(No statement)
Mineral waste [Consumer waste]	Mass	1,45E-06	kg	Calculated
Molybdenum (Mo99) [Radioactive emissions to fresh water]	Activity	8,68E-05	Bq	(No statement)
Molybdenum [Fresh water]	Mass	1,27E-06	kg	(No statement)
Molybdenum [Heavy metals to agricultural soil]	Mass	1,64E-08	kg	(No statement)
Molybdenum [Heavy metals to air]	Mass	4,47E-07	kg	(Literature)
Molybdenum [Heavy metals to fresh water]	Mass	4,09E-06	kg	(Literature)
Molybdenum [Heavy metals to sea water]	Mass	6,35E-09	kg	(No statement)
Monoethanolamine [Group NMVOC to air]	Mass	2,95E-06	kg	(No statement)
Municipal waste [Consumer waste]	Mass	5,43E-07	kg	(Calculated)
Napropamide [Pesticides to agricultural soil]	Mass	6,77E-08	kg	(No statement)
Natural gas LNG [Natural gas products]	Mass	3,32E-07	kg	(No statement)

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Neutral salts [Inorganic emissions to fresh water]	Mass	2,92E-06	kg	(Calculated)
Nickel [Fresh water]	Mass	1,87E-04	kg	(No statement)
Nickel [Heavy metals to agricultural soil]	Mass	4,88E-07	kg	(No statement)
Nickel [Heavy metals to air]	Mass	1,22E-05	kg	(Literature)
Nickel [Heavy metals to fresh water]	Mass	7,21E-06	kg	(Literature)
Nickel [Heavy metals to industrial soil]	Mass	1,03E-06	kg	Calculated
Nickel [Heavy metals to sea water]	Mass	3,93E-08	kg	(No statement)
Niobium (Nb95) [Radioactive emissions to air]	Activity	2,24E-02	Bq	(No statement)
Nitrate [Fresh water]	Mass	4,42E-04	kg	(No statement)
Nitrate [Inorganic emissions to air]	Mass	1,42E-08	kg	(No statement)
Nitrate [Inorganic emissions to fresh water]	Mass	1,74E-02	kg	(Literature)
Nitrate [Inorganic emissions to sea water]	Mass	4,50E-05	kg	(No statement)
Nitrite [Fresh water]	Mass	2,75E-06	kg	(No statement)
Nitrite [Inorganic emissions to fresh water]	Mass	1,78E-05	kg	(No statement)
Nitrite [Inorganic emissions to sea water]	Mass	8,25E-07	kg	(No statement)
Nitrogen (as total N) [Inorganic emissions to fresh water]	Mass	2,26E-06	kg	Literature
Nitrogen [Inorganic emissions to fresh water]	Mass	1,40E-03	kg	(Literature)
Nitrogen [Inorganic emissions to sea water]	Mass	1,53E-07	kg	(No statement)
Nitrogen monoxide [Inorganic emissions to air]	Mass	4,22E-04	kg	Calculated
Nitrogen organic bounded [Fresh water]	Mass	8,23E-05	kg	(No statement)
Nitrogen organic bounded [Inorganic emissions to fresh water]	Mass	1,96E-04	kg	Literature
Nitrogen organic bounded [Inorganic emissions to sea water]	Mass	6,77E-06	kg	(No statement)
Nitrogen oxides [Inorganic emissions to air]	Mass	9,08E-02	kg	(Literature)
Nitrous oxide (laughing gas) [Inorganic emissions to air]	Mass	1,43E-03	kg	(Literature)
NMVOC (unspecified) [Group NMVOC to air]	Mass	3,77E-02	kg	(Literature)
non used primary energy from water power [Other emissions to fresh water]	Energy ren.	3,12E-03	MJ	Calculated
non used primary energy from wind power [Other emissions to air]	Energy ren.	1,72E-03	MJ	(Calculated)
Occup. as Forest land [Hemeroby]	Areatime	2,85E-01	m2*yr	(No statement)
Oil (unspecified) [Hydrocarbons to fresh water]	Mass	5,40E-03	kg	(Literature)
Oil (unspecified) [Hydrocarbons to sea water]	Mass	1,01E-03	kg	(No statement)
Oil (unspecified) [Organic emissions to agricultural soil]	Mass	6,41E-03	kg	(No statement)
Oil (unspecified) [Organic emissions to industrial soil]	Mass	4,71E-05	kg	Measured
Oil to ground [STFI-PF import]	Mass	3,40E-03	kg	Literature
Orbencarb [Pesticides to agricultural soil]	Mass	1,32E-05	kg	(No statement)
Organic chlorine compounds (unspecified) [Organic emissions to fresh water]	Mass	1,02E-11	kg	(Literature)
Organic chlorine compounds [Organic emissions to air (group VOC)]	Mass	1,02E-11	kg	(Literature)
Organic waste [Consumer waste]	Mass	3,60E-04	kg	Literature
Overburden [Stockpile goods]	Mass	2,33E-01	kg	(Calculated)
Ozone [Inorganic emissions to air]	Mass	1,78E-04	kg	(No statement)
Pentachlorobenzene [Halogenated organic emissions to air]	Mass	8,82E-09	kg	(No statement)
Pentachlorophenol (PCP) [Halogenated organic emissions to air]	Mass	6,07E-08	kg	(No statement)
Pentane (n-pentane) [Group NMVOC to air]	Mass	2,39E-04	kg	(Estimated)
Personal computer [Flows]	Number of pieces	1,83E-15	pcs.	(No statement)
Phenol (hydroxy benzene) [Group NMVOC to air]	Mass	1,37E-05	kg	Literature
Phenol (hydroxy benzene) [Hydrocarbons to fresh water]	Mass	2,76E-05	kg	(Literature)
Phenol (hydroxy benzene) [Hydrocarbons to sea water]	Mass	3,92E-06	kg	(No statement)

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Phosphate [Fresh water]	Mass	5,17E-04	kg	(No statement)
Phosphate [Inorganic emissions to fresh water]	Mass	1,57E-04	kg	(Literature)
Phosphate [Inorganic emissions to sea water]	Mass	2,68E-05	kg	(No statement)
Phosphorus [Inorganic emissions to agricultural soil]	Mass	3,15E-05	kg	(No statement)
Phosphorus [Inorganic emissions to air]	Mass	1,70E-05	kg	(No statement)
Phosphorus [Inorganic emissions to fresh water]	Mass	1,55E-04	kg	(No statement)
Phosphorus [Inorganic emissions to industrial soil]	Mass	2,75E-06	kg	(No statement)
Phosphorus [Inorganic emissions to sea water]	Mass	2,61E-07	kg	(No statement)
Pirimicarb [Pesticides to agricultural soil]	Mass	2,10E-08	kg	(No statement)
Platinum [Heavy metals to air]	Mass	3,24E-13	kg	(No statement)
Plutonium (Pu alpha) [Radioactive emissions to air]	Activity	3,29E-05	Bq	Calculated
Plutonium (Pu alpha) [Radioactive emissions to fresh water]	Activity	4,55E-03	Bq	(Calculated)
Plutonium (Pu238) [Radioactive emissions to air]	Activity	4,47E-08	Bq	(No statement)
Plutonium as residual product [Radioactive waste]	Mass	4,16E-10	kg	Calculated
Polonium (Po210) [Radioactive emissions to air]	Activity	1,69E+00	Bq	(No statement)
Polonium (Po210) [Radioactive emissions to fresh water]	Activity	5,09E-01	Bq	(No statement)
Polonium (Po210) [Radioactive emissions to sea water]	Activity	2,42E+00	Bq	(No statement)
Polychlorinated biphenyls (PCB unspecified) [Halogenated organic emissions to air]	Mass	2,06E-09	kg	(No statement)
Polychlorinated dibenzo-p-dioxins (2,3,7,8 - TCDD) [Halogenated organic emissions to air]	Mass	3,95E-11	kg	(Literature)
Polychlorinated dibenzo-p-dioxins (2,3,7,8 - TCDD) [Halogenated organic emissions to fresh water]	Mass	2,57E-22	kg	Estimated
Polycyclic aromatic hydrocarbons (PAH) [Group PAH to air]	Mass	2,09E-06	kg	(Literature)
Polycyclic aromatic hydrocarbons (PAH, unspec.) [Hydrocarbons to fresh water]	Mass	8,62E-06	kg	(Literature)
Polycyclic aromatic hydrocarbons (PAH, unspec.) [Hydrocarbons to sea water]	Mass	2,48E-07	kg	(No statement)
Populated PWB Iliad Module (E-Paper) [Flows]	Mass	1,79E-04	kg	(Literature)
Potassium (K40) [Radioactive emissions to air]	Activity	2,07E-01	Bq	(No statement)
Potassium (K40) [Radioactive emissions to fresh water]	Activity	6,37E-01	Bq	(No statement)
Potassium (K40) [Radioactive emissions to sea water]	Activity	1,92E-01	Bq	(No statement)
Potassium [Fresh water]	Mass	2,72E-02	kg	(No statement)
Potassium [Inorganic emissions to fresh water]	Mass	3,56E-03	kg	(Literature)
Potassium [Inorganic emissions to sea water]	Mass	1,26E-04	kg	(No statement)
Propane [Group NMVOC to air]	Mass	3,61E-04	kg	(Literature)
Propene (propylene) [Group NMVOC to air]	Mass	4,15E-04	kg	(Calculated)
Propene [Hydrocarbons to fresh water]	Mass	7,34E-05	kg	(No statement)
Propionaldehyde [Group NMVOC to air]	Mass	9,71E-10	kg	(No statement)
Propionic acid (propane acid) [Group NMVOC to air]	Mass	1,46E-06	kg	(Estimated)
Propylene oxide [Group NMVOC to air]	Mass	3,12E-05	kg	(No statement)
Propylene oxide [Hydrocarbons to fresh water]	Mass	7,50E-05	kg	(No statement)
Protactinium (Pa234m) [Radioactive emissions to air]	Activity	4,63E-02	Bq	(No statement)
Protactinium (Pa234m) [Radioactive emissions to fresh water]	Activity	8,57E-01	Bq	(No statement)
R 11 (trichlorofluoromethane) [Halogenated organic emissions to air]	Mass	3,01E-09	kg	Literature
R 113 (trichlorofluoroethane) [Halogenated organic emissions to air]	Mass	0,00E+00	kg	(No statement)
R 114 (dichlorotetrafluoroethane) [Halogenated organic emissions to air]	Mass	9,32E-08	kg	Literature
R 116 (hexafluoroethane) [Halogenated organic emissions to air]	Mass	1,11E-07	kg	Literature

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
R 12 (dichlorodifluoromethane) [Halogenated organic emissions to air]	Mass	5,76E-09	kg	Literature
R 124 (chlorotetrafluoroethane) [Halogenated organic emissions to air]	Mass	0,00E+00	kg	(No statement)
R 13 (chlorotrifluoromethane) [Halogenated organic emissions to air]	Mass	4,06E-10	kg	Literature
R 134a (tetrafluoroethane) [Halogenated organic emissions to air]	Mass	3,62E-06	kg	(No statement)
R 21 (Dichlorofluoromethane) [Halogenated organic emissions to air]	Mass	1,90E-15	kg	(No statement)
R 22 (chlorodifluoromethane) [Halogenated organic emissions to air]	Mass	5,68E-07	kg	Literature
R 23 (trifluoromethane) [Halogenated organic emissions to air]	Mass	6,03E-13	kg	(No statement)
Radioactive emissions (general) [Radioactive emissions to air]	Activity	9,29E-02	Bq	(No statement)
Radioactive isotopes (unspecific) [Radioactive emissions to air]	Activity	2,62E+00	Bq	(No statement)
Radioactive isotopes (unspecific) [Radioactive emissions to fresh water]	Activity	3,18E+02	Bq	(No statement)
Radioactive tailings [Radioactive waste]	Mass	1,28E-04	kg	Calculated
Radium (Ra224) [Radioactive emissions to fresh water]	Activity	3,25E+00	Bq	(No statement)
Radium (Ra224) [Radioactive emissions to sea water]	Activity	1,48E+00	Bq	(No statement)
Radium (Ra226) [Radioactive emissions to air]	Activity	1,76E+00	Bq	(No statement)
Radium (Ra226) [Radioactive emissions to fresh water]	Activity	5,49E+02	Bq	(Literature)
Radium (Ra226) [Radioactive emissions to sea water]	Activity	4,16E+00	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to air]	Activity	4,01E-01	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to fresh water]	Activity	6,50E+00	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to sea water]	Activity	2,97E+00	Bq	(No statement)
Radon (Rn220) [Radioactive emissions to air]	Activity	2,15E-02	Bq	(No statement)
Radon (Rn222) [Air]	Activity	6,00E+06	Bq	(No statement)
Radon (Rn222) [Radioactive emissions to air]	Activity	1,43E+05	Bq	(Literature)
Radon (Rn-daughter nukleade) [Radioactive emissions to air]	Activity	4,77E-10	Bq	(No statement)
Red mud (wet) (3% NaOH) [Hazardous waste for disposal]	Mass	3,61E-08	kg	Measured
Rolling gravel [Waste for recovery]	Mass	1,19E-11	kg	Measured
Rolling tinder [Waste for recovery]	Mass	3,61E-13	kg	Calculated
Rubidium [Inorganic emissions to fresh water]	Mass	9,80E-07	kg	(No statement)
Ruthenium (Ru103) [Radioactive emissions to air]	Activity	1,88E-08	Bq	(No statement)
Ruthenium (Ru103) [Radioactive emissions to fresh water]	Activity	1,83E-05	Bq	(No statement)
Ruthenium (Ru106) [Radioactive emissions to fresh water]	Activity	5,77E-04	Bq	Calculated
Salt slag [Waste for recovery]	Mass	7,82E-10	kg	Calculated
Scandium [Fresh water]	Mass	6,19E-07	kg	(No statement)
Scandium [Inorganic emissions to air]	Mass	9,39E-09	kg	(Calculated)
Scandium [Inorganic emissions to fresh water]	Mass	1,40E-07	kg	(No statement)
Selenium [Fresh water]	Mass	1,45E-06	kg	(No statement)
Selenium [Heavy metals to air]	Mass	8,13E-07	kg	(Literature)
Selenium [Heavy metals to fresh water]	Mass	1,11E-06	kg	(Literature)
Selenium [Heavy metals to sea water]	Mass	9,52E-09	kg	(No statement)
Sewage sludge (waste water processing) [Hazardous waste]	Mass	2,03E-08	kg	Calculated
Silicate particles [Inorganic emissions to fresh water]	Mass	3,75E-17	kg	Measured
Silicium tetrafluoride [Inorganic emissions to air]	Mass	2,78E-09	kg	(No statement)

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Silver (Ag110m) [Radioactive emissions to air]	Activity	1,87E-07	Bq	(No statement)
Silver (Ag110m) [Radioactive emissions to fresh water]	Activity	4,96E-01	Bq	(Literature)
Silver [Fresh water]	Mass	8,70E-07	kg	(No statement)
Silver [Heavy metals to agricultural soil]	Mass	3,03E-09	kg	(No statement)
Silver [Heavy metals to air]	Mass	2,07E-11	kg	(No statement)
Silver [Heavy metals to fresh water]	Mass	1,15E-07	kg	(Literature)
Silver [Heavy metals to sea water]	Mass	1,78E-08	kg	(No statement)
Slag (Iron plate production) [Waste for recovery]	Mass	4,61E-06	kg	Measured
Slag [Hazardous waste]	Mass	1,16E-04	kg	(Calculated)
Slag [Waste for recovery]	Mass	1,11E-05	kg	(Literature)
Sludge (fibrils, spent bleaching agent) [Waste for recovery]	Mass	1,58E-04	kg	Calculated
Sludge (from processing) [Waste for recovery]	Mass	2,44E-07	kg	Calculated
Sludge [Hazardous waste]	Mass	6,61E-02	kg	(Literature)
Sodium (Na24) [Radioactive emissions to fresh water]	Activity	6,57E-04	Bq	(No statement)
Sodium [Fresh water]	Mass	6,05E-03	kg	(No statement)
Sodium [Inorganic emissions to fresh water]	Mass	4,78E-02	kg	(Literature)
Sodium [Inorganic emissions to sea water]	Mass	9,09E-03	kg	(No statement)
Sodium chlorate [high population density]	Mass	1,56E-07	kg	(No statement)
Sodium dichromate [high population density]	Mass	5,67E-07	kg	(No statement)
Sodium formate [high population density]	Mass	1,55E-05	kg	(No statement)
Sodium formate [Hydrocarbons to fresh water]	Mass	3,73E-05	kg	(No statement)
Soil loss by erosion into water [Particles to fresh water]	Mass	2,73E-02	kg	Literature
Solids (dissolved) [Analytical measures to fresh water]	Mass	8,25E-03	kg	(Literature)
Solids (suspended) [Fresh water]	Mass	2,49E-01	kg	(No statement)
Solids (suspended) [Particles to fresh water]	Mass	2,28E-02	kg	(Literature)
Solids (suspended) [Particles to sea water]	Mass	2,68E-03	kg	(No statement)
Steam [Inorganic emissions to air]	Mass	5,66E-02	kg	(Calculated)
Steel works slag [Waste for recovery]	Mass	1,86E-12	kg	Calculated
Strontium (Sr89) [Radioactive emissions to fresh water]	Activity	1,89E-02	Bq	(No statement)
Strontium (Sr90) [Radioactive emissions to fresh water]	Activity	8,16E+01	Bq	(Literature)
Strontium (Sr90) [Radioactive emissions to sea water]	Activity	6,78E+00	Bq	(No statement)
Strontium [Fresh water]	Mass	9,92E-05	kg	(No statement)
Strontium [Heavy metals to agricultural soil]	Mass	3,46E-09	kg	(No statement)
Strontium [Heavy metals to fresh water]	Mass	3,98E-04	kg	(Literature)
Strontium [Heavy metals to industrial soil]	Mass	5,53E-07	kg	(No statement)
Strontium [Heavy metals to sea water]	Mass	1,79E-04	kg	(No statement)
Strontium [Inorganic emissions to air]	Mass	2,23E-06	kg	(Calculated)
Styrene [Group NMVOC to air]	Mass	7,55E-10	kg	(No statement)
Sulphate [Fresh water]	Mass	5,57E-02	kg	(No statement)
Sulphate [Inorganic emissions to fresh water]	Mass	2,86E-02	kg	(Literature)
Sulphate [Inorganic emissions to sea water]	Mass	1,46E-03	kg	(No statement)
Sulphide [Inorganic emissions to fresh water]	Mass	7,06E-07	kg	(Literature)
Sulphide [Inorganic emissions to sea water]	Mass	1,31E-07	kg	(No statement)
Sulphite [Inorganic emissions to fresh water]	Mass	1,34E-05	kg	(Literature)
Sulphur [Inorganic emissions to agricultural soil]	Mass	4,44E-05	kg	(No statement)
Sulphur [Inorganic emissions to fresh water]	Mass	3,61E-05	kg	(No statement)
Sulphur [Inorganic emissions to industrial soil]	Mass	3,32E-05	kg	(No statement)
Sulphur [Inorganic emissions to sea water]	Mass	4,77E-07	kg	(No statement)
Sulphur dioxide [Inorganic emissions to air]	Mass	4,81E-02	kg	(Literature)
Sulphur hexafluoride [Inorganic emissions to air]	Mass	1,73E-06	kg	Literature
Sulphuric acid [Inorganic emissions to air]	Mass	4,94E-11	kg	Calculated
Tailings [Stockpile goods]	Mass	2,25E-01	kg	(Literature)

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Tebutam [Pesticides to agricultural soil]	Mass	1,61E-07	kg	(No statement)
Technetium (Tc99m) [Radioactive emissions to fresh water]	Activity	2,00E-03	Bq	(No statement)
Teflubenzuron [Pesticides to agricultural soil]	Mass	1,63E-07	kg	(No statement)
Tellurium (Te123m) [Radioactive emissions to fresh water]	Activity	1,53E-02	Bq	(No statement)
Tellurium (Te132) [Radioactive emissions to fresh water]	Activity	5,02E-06	Bq	(No statement)
Tetrafluoromethane [Halogenated organic emissions to air]	Mass	9,90E-07	kg	Literature
Thallium [Fresh water]	Mass	4,29E-07	kg	(No statement)
Thallium [Heavy metals to air]	Mass	1,53E-08	kg	(Calculated)
Thallium [Heavy metals to fresh water]	Mass	2,59E-08	kg	(Measured)
Thermal energy (MJ) [Thermal energy]	Energy	2,64E+00	MJ	Literature
Thorium (Th228) [Radioactive emissions to air]	Activity	6,83E-02	Bq	(No statement)
Thorium (Th228) [Radioactive emissions to fresh water]	Activity	1,30E+01	Bq	(No statement)
Thorium (Th228) [Radioactive emissions to sea water]	Activity	5,96E+00	Bq	(No statement)
Thorium (Th230) [Radioactive emissions to air]	Activity	3,80E+02	Bq	(No statement)
Thorium (Th230) [Radioactive emissions to fresh water]	Activity	1,17E+02	Bq	(No statement)
Thorium (Th232) [Radioactive emissions to air]	Activity	6,06E-02	Bq	(No statement)
Thorium (Th232) [Radioactive emissions to fresh water]	Activity	1,19E-01	Bq	(No statement)
Thorium (Th234) [Radioactive emissions to air]	Activity	4,63E-02	Bq	(No statement)
Thorium (Th234) [Radioactive emissions to fresh water]	Activity	8,57E-01	Bq	(No statement)
Tin [Fresh water]	Mass	5,80E-05	kg	(No statement)
Tin [Heavy metals to agricultural soil]	Mass	1,91E-08	kg	(No statement)
Tin [Heavy metals to air]	Mass	2,64E-07	kg	(Calculated)
Tin [Heavy metals to fresh water]	Mass	7,21E-08	kg	Literature
Titanium [Heavy metals to agricultural soil]	Mass	4,43E-06	kg	(No statement)
Titanium [Heavy metals to air]	Mass	3,68E-06	kg	(Calculated)
Titanium [Heavy metals to fresh water]	Mass	1,48E-06	kg	(Literature)
Titanium [Heavy metals to sea water]	Mass	3,77E-09	kg	(No statement)
Toluene (methyl benzene) [Group NMVOC to air]	Mass	7,89E-05	kg	(Literature)
Toluene (methyl benzene) [Hydrocarbons to fresh water]	Mass	1,65E-05	kg	(Literature)
Toluene (methyl benzene) [Hydrocarbons to sea water]	Mass	4,52E-06	kg	(No statement)
Top Cover (E-Paper) [Flows]	Mass	3,46E+00	kg	(Literature)
Total dissolved organic bounded carbon [Analytical measures to fresh water]	Mass	1,17E-02	kg	(Literature)
Total dissolved organic bounded carbon [Analytical measures to sea water]	Mass	1,08E-03	kg	(No statement)
Total organic bounded carbon [Analytical measures to fresh water]	Mass	4,54E-02	kg	(Literature)
Total organic bounded carbon [Analytical measures to sea water]	Mass	1,08E-03	kg	(No statement)
Total organic carbon, TOC (Ecoinvent) [Fresh water]	Mass	2,30E-02	kg	(No statement)
Tot-P to water [STFI-PF import]	Mass	8,85E-06	kg	Literature
Treatment residue (mineral) [Stockpile goods]	Mass	5,11E-04	kg	Calculated
Tributyltinoxide [Pesticides to sea water]	Mass	1,49E-07	kg	(No statement)
Trichloromethane (chloroform) [Halogenated organic emissions to air]	Mass	3,68E-09	kg	(No statement)
Trichloromethane (chloroform) [Halogenated organic emissions to fresh water]	Mass	1,90E-15	kg	(No statement)
Triethylene glycol [Hydrocarbons to sea water]	Mass	1,48E-06	kg	(No statement)
Tungsten [Fresh water]	Mass	3,95E-07	kg	(No statement)
Tungsten [Heavy metals to fresh water]	Mass	2,53E-07	kg	(No statement)
Unused primary energy from solar energy [Other emissions to air]	Mass	2,69E-06	kg	Estimated

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Uranium (total) [Radioactive emissions to air]	Activity	2,57E+00	Bq	(Literature)
Uranium (U234) [Radioactive emissions to air]	Activity	5,64E-01	Bq	(Literature)
Uranium (U234) [Radioactive emissions to fresh water]	Activity	1,03E+00	Bq	(No statement)
Uranium (U235) [Radioactive emissions to air]	Activity	2,63E-02	Bq	(Literature)
Uranium (U235) [Radioactive emissions to fresh water]	Activity	1,70E+00	Bq	(No statement)
Uranium (U238) [Radioactive emissions to air]	Activity	7,04E-01	Bq	(Literature)
Uranium (U238) [Radioactive emissions to fresh water]	Activity	2,84E+00	Bq	(No statement)
Uranium (U238) [Radioactive emissions to sea water]	Activity	8,14E-01	Bq	(No statement)
Uranium [Radioactive emissions to fresh water]	Activity	4,96E+01	Bq	(Literature)
Uranium depleted [Radioactive waste]	Mass	5,03E-07	kg	(Calculated)
Uranium spent as residue [Radioactive waste]	Mass	1,77E-08	kg	(Calculated)
Used air [Other emissions to air]	Mass	2,04E-02	kg	(Measured)
Vanadium [Fresh water]	Mass	6,80E-05	kg	(No statement)
Vanadium [Heavy metals to agricultural soil]	Mass	1,27E-07	kg	(No statement)
Vanadium [Heavy metals to air]	Mass	3,40E-05	kg	(Literature)
Vanadium [Heavy metals to fresh water]	Mass	2,25E-06	kg	(Literature)
Vanadium [Heavy metals to sea water]	Mass	1,90E-08	kg	(No statement)
Waste (unspecified) [Consumer waste]	Mass	2,11E-03	kg	(Calculated)
Waste for recovery (unspecified) [Waste for recovery]	Mass	1,89E+00	kg	Literature
Waste heat [Fresh water]	Energy	8,97E-01	MJ	(No statement)
Waste heat [Other emissions to air]	Energy	4,26E+02	MJ	(Calculated)
Waste heat [Other emissions to fresh water]	Energy	1,24E+01	MJ	(Calculated)
Waste radioactive [Radioactive waste]	Mass	3,38E-07	kg	(Literature)
Waste water [Other emissions to fresh water]	Mass	4,32E+00	kg	(Literature)
Waste water processing residue [Hazardous waste for recovery]	Mass	3,87E-06	kg	Literature
Water (desalinated; deionized) [Operating materials]	Mass	3,22E-08	kg	Calculated
Vinyl chloride (VCM; chloroethene) [Halogenated organic emissions to air]	Mass	3,62E-07	kg	(No statement)
Vinyl chloride (VCM; chloroethene) [Halogenated organic emissions to fresh water]	Mass	2,80E-08	kg	(No statement)
VOC (unspecified) [Organic emissions to air (group VOC)]	Mass	3,90E-02	kg	Literature
VOC [Organic emissions to fresh water]	Mass	2,49E-05	kg	(No statement)
VOC [Organic emissions to sea water]	Mass	1,04E-05	kg	(No statement)
Volatile fission products (inert gases;iodine;C14) [Radioactive waste]	Mass	1,48E-10	kg	(Calculated)
Xenon (Xe131m) [Radioactive emissions to air]	Activity	2,76E+00	Bq	(Literature)
Xenon (Xe133) [Radioactive emissions to air]	Activity	9,31E+01	Bq	(Literature)
Xenon (Xe133m) [Radioactive emissions to air]	Activity	3,32E-01	Bq	(Literature)
Xenon (Xe135) [Radioactive emissions to air]	Activity	3,76E+01	Bq	(Literature)
Xenon (Xe135m) [Radioactive emissions to air]	Activity	2,22E+01	Bq	(Literature)
Xenon (Xe137) [Radioactive emissions to air]	Activity	5,00E-01	Bq	(Literature)
Xenon (Xe138) [Radioactive emissions to air]	Activity	4,18E+00	Bq	(Literature)
Xylene (dimethyl benzene) [Group NMVOC to air]	Mass	7,89E-05	kg	(Calculated)
Xylene (isomers; dimethyl benzene) [Hydrocarbons to fresh water]	Mass	8,28E-05	kg	(Literature)
Xylene (isomers; dimethyl benzene) [Hydrocarbons to sea water]	Mass	3,60E-06	kg	(No statement)
Xylene (meta-Xylene; 1,3-Dimethylbenzene) [Group NMVOC to air]	Mass	6,45E-06	kg	(No statement)
Zinc (Zn65) [Radioactive emissions to air]	Activity	3,61E-06	Bq	(No statement)
Zinc (Zn65) [Radioactive emissions to fresh water]	Activity	8,90E-03	Bq	(No statement)
Zinc [Fresh water]	Mass	6,10E-04	kg	(No statement)

Appendix 2.2
LCI Data - Printed newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Zinc [Heavy metals to agricultural soil]	Mass	1,86E-05	kg	(No statement)
Zinc [Heavy metals to air]	Mass	4,06E-05	kg	(Literature)
Zinc [Heavy metals to fresh water]	Mass	6,41E-05	kg	(Literature)
Zinc [Heavy metals to industrial soil]	Mass	2,22E-05	kg	Calculated
Zinc [Heavy metals to sea water]	Mass	3,82E-05	kg	(No statement)
Zinc sulphate [Inorganic emissions to air]	Mass	5,12E-15	kg	Measured
Zirconium (Zr) [Air]	Mass	8,77E-10	kg	(No statement)
Zirconium (Zr95) [Radioactive emissions to air]	Activity	3,53E-06	Bq	(No statement)
Zirconium (Zr95) [Radioactive emissions to fresh water]	Activity	1,03E-04	Bq	(No statement)

Flow – Outputs	Quantity	Amount	Unit	Origin of data

Appendix 2.3 LCI Data - Web based newspaper, European scenario

In the tables below the LCI data for the studied system "Web based newspaper, European scenario" are presented. The data are divided as inputs to the system and outputs from the system.

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Air [Operating materials]	Mass	3,59E-17	kg	Estimated
Air [Renewable resources]	Mass	1,22E+01	kg	(Calculated)
Aluminum [Non renewable elements]	Mass	1,79E-03	kg	(No statement)
Antimonite [Non renewable resources]	Mass	3,24E-11	kg	(No statement)
Barium sulphate [Non renewable resources]	Mass	2,35E-03	kg	(No statement)
Basalt [Non renewable resources]	Mass	1,64E-04	kg	(No statement)
Bauxite [Non renewable resources]	Mass	1,06E-02	kg	Calculated
Bentonite [Non renewable resources]	Mass	1,02E-03	kg	(Literature)
Borax [Non renewable resources]	Mass	6,39E-08	kg	(No statement)
Calcium chloride [Non renewable resources]	Mass	7,85E-12	kg	Literature
Carbon dioxide [Renewable resources]	Mass	3,50E-01	kg	Calculated
Catalyst [Operating materials]	Mass	3,29E-07	kg	Calculated
Chromium [Non renewable elements]	Mass	3,17E-04	kg	(No statement)
Chrysotile [Non renewable resources]	Mass	4,15E-08	kg	(No statement)
Cinnabar [Non renewable resources]	Mass	3,95E-09	kg	(No statement)
Circuit material (Fe carrier) [Metals]	Mass	3,81E-09	kg	Calculated
Clay [Non renewable resources]	Mass	1,06E-02	kg	(No statement)
Cobalt [Non renewable elements]	Mass	6,49E-10	kg	(No statement)
Colemanite ore [Non renewable resources]	Mass	1,91E-04	kg	Calculated
Cooling water [Operating materials]	Mass	5,80E+00	kg	(Measured)
Copper [Non renewable elements]	Mass	9,69E-04	kg	(No statement)
Copper ore (0.14%) [Non renewable resources]	Mass	2,57E+00	kg	Measured
Copper ore (0.3%) [Non renewable resources]	Mass	1,04E-08	kg	Estimated
Crude oil [Crude oil (resource)]	Mass	3,14E-01	kg	(Literature)
Crude oil Algeria [Crude oil (resource)]	Mass	3,23E-03	kg	(Literature)
Crude oil Angola [Crude oil (resource)]	Mass	1,24E-03	kg	(Estimated)
Crude oil Argentina [Crude oil (resource)]	Mass	7,54E-06	kg	Literature
Crude oil Australia [Crude oil (resource)]	Mass	2,89E-04	kg	(Estimated)
Crude oil Brazil [Crude oil (resource)]	Mass	1,63E-04	kg	Literature
Crude oil Cameroon [Crude oil (resource)]	Mass	5,05E-04	kg	(Estimated)
Crude oil Canada [Crude oil (resource)]	Mass	4,28E-03	kg	(Literature)
Crude oil Central Africa [Crude oil (resource)]	Mass	4,22E-05	kg	(Calculated)
Crude oil Central America [Crude oil (resource)]	Mass	2,59E-05	kg	(Calculated)
Crude oil China [Crude oil (resource)]	Mass	2,19E-02	kg	(Calculated)
Crude oil CIS [Crude oil (resource)]	Mass	1,36E-02	kg	(Literature)
Crude oil Colombia [Crude oil (resource)]	Mass	1,66E-06	kg	(Literature)
Crude oil Denmark [Crude oil (resource)]	Mass	5,00E-05	kg	(Literature)
Crude oil Egypt [Crude oil (resource)]	Mass	1,43E-03	kg	(Estimated)
Crude oil France [Crude oil (resource)]	Mass	4,02E-05	kg	(Literature)
Crude oil free wellhead [Crude oil (resource)]	Mass	-1,32E-06	kg	Literature
Crude oil Gabon [Crude oil (resource)]	Mass	6,73E-05	kg	(Estimated)
Crude oil Germany [Crude oil (resource)]	Mass	1,38E-03	kg	(Literature)
Crude oil Indonesia [Crude oil (resource)]	Mass	8,25E-05	kg	(Estimated)
Crude oil Iran [Crude oil (resource)]	Mass	6,52E-03	kg	(Estimated)

Appendix 2.3
LCI Data - Web based newspaper, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Crude oil Italy [Crude oil (resource)]	Mass	1,47E-03	kg	(Literature)
Crude oil Kuwait [Crude oil (resource)]	Mass	6,11E-04	kg	(Estimated)
Crude oil Libya [Crude oil (resource)]	Mass	1,29E-02	kg	(Literature)
Crude oil Mexico [Crude oil (resource)]	Mass	4,73E-04	kg	(Literature)
Crude oil Middle East [Crude oil (resource)]	Mass	1,12E-04	kg	(Calculated)
Crude oil Netherlands [Crude oil (resource)]	Mass	1,37E-04	kg	(Literature)
Crude oil New Zealand [Crude oil (resource)]	Mass	1,01E-05	kg	(Estimated)
Crude oil Nigeria [Crude oil (resource)]	Mass	3,33E-03	kg	(Estimated)
Crude oil North Africa [Crude oil (resource)]	Mass	8,03E-05	kg	(Calculated)
Crude oil Norway [Crude oil (resource)]	Mass	1,11E-02	kg	(Literature)
Crude oil Oman [Crude oil (resource)]	Mass	1,16E-03	kg	(Estimated)
Crude oil Qatar [Crude oil (resource)]	Mass	3,35E-05	kg	(Estimated)
Crude oil Saudi Arabia [Crude oil (resource)]	Mass	9,72E-03	kg	(Estimated)
Crude oil South Africa [Crude oil (resource)]	Mass	0,00E+00	kg	(No statement)
Crude oil Tunisia [Crude oil (resource)]	Mass	6,67E-05	kg	(Literature)
Crude oil United Arab Emirates [Crude oil (resource)]	Mass	4,30E-05	kg	(Estimated)
Crude oil United Kingdom [Crude oil (resource)]	Mass	1,07E-02	kg	(Literature)
Crude oil USA [Crude oil (resource)]	Mass	4,68E-05	kg	(Literature)
Crude oil Venezuela [Crude oil (resource)]	Mass	2,86E-03	kg	(Literature)
Diatomite [Non renewable resources]	Mass	3,11E-10	kg	(No statement)
Dolomite [Non renewable resources]	Mass	8,74E-05	kg	(Literature)
Energy, calorific value, in organic substance [biotic]	Energy ren.	3,86E+00	MJ	(No statement)
Feldspar (aluminum silicates) [Non renewable resources]	Mass	3,98E-11	kg	(No statement)
Fluorine [Non renewable elements]	Mass	3,20E-06	kg	(No statement)
Fluorspar (calcium fluoride; fluorite) [Non renewable resources]	Mass	2,80E-04	kg	Calculated
Granite [Non renewable resources]	Mass	1,29E-07	kg	(No statement)
Gypsum (natural gypsum) [Non renewable resources]	Mass	3,06E-07	kg	(No statement)
Hard coal [Hard coal (resource)]	Mass	1,75E+00	kg	(Literature)
Hard coal Australia [Hard coal (resource)]	Mass	5,65E-03	kg	(Calculated)
Hard coal Belgium [Hard coal (resource)]	Mass	3,89E-04	kg	(Calculated)
Hard coal Brazil [Hard coal (resource)]	Mass	3,59E-05	kg	Estimated
Hard coal Canada [Hard coal (resource)]	Mass	2,30E-03	kg	(Calculated)
Hard coal China [Hard coal (resource)]	Mass	4,06E-01	kg	(Calculated)
Hard coal CIS [Hard coal (resource)]	Mass	2,47E-03	kg	(Calculated)
Hard coal Colombia [Hard coal (resource)]	Mass	4,99E-03	kg	(Measured)
Hard coal Czech Republic [Hard coal (resource)]	Mass	2,62E-03	kg	(Measured)
Hard coal France [Hard coal (resource)]	Mass	4,73E-03	kg	(Calculated)
Hard coal Germany [Hard coal (resource)]	Mass	7,62E-02	kg	(Calculated)
Hard coal Indonesia [Hard coal (resource)]	Mass	2,10E-03	kg	(Measured)
Hard coal Japan [Hard coal (resource)]	Mass	3,77E-06	kg	(Calculated)
Hard coal Poland [Hard coal (resource)]	Mass	1,00E-02	kg	(Calculated)
Hard coal Portugal [Hard coal (resource)]	Mass	7,04E-05	kg	Estimated
Hard coal South Africa [Hard coal (resource)]	Mass	4,62E-02	kg	(Measured)
Hard coal Spain [Hard coal (resource)]	Mass	9,34E-03	kg	(Calculated)
Hard coal United Kingdom [Hard coal (resource)]	Mass	1,21E-03	kg	(Calculated)
Hard coal USA [Hard coal (resource)]	Mass	2,37E-02	kg	(Calculated)
Hard coal Venezuela [Hard coal (resource)]	Mass	5,24E-03	kg	(Measured)
Heavy spar (barytes) [Non renewable resources]	Mass	1,27E-03	kg	(Literature)
Inert rock [Non renewable resources]	Mass	3,41E+00	kg	(Literature)
Infrastructure telecommunication [Flows] *Not followed from the cradle*	Number of pieces	1,06E-01	pcs.	Estimated

Appendix 2.3
LCI Data - Web based newspaper, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Iron [Non renewable elements]	Mass	1,83E-02	kg	(Estimated)
Iron ore (65%) [Non renewable resources]	Mass	1,28E-04	kg	(Estimated)
Iron ore [Non renewable resources]	Mass	1,47E-01	kg	(Calculated)
Kaolin ore [Non renewable resources]	Mass	2,20E-03	kg	Measured
Kaolinite (24% in ore as mined) [Non renewable resources]	Mass	1,88E-05	kg	(No statement)
Kieserite (25% in ore as mined) [Non renewable resources]	Mass	1,14E-07	kg	(No statement)
Lead - zinc ore (4.6%-0.6%) [Non renewable resources]	Mass	9,40E-03	kg	Calculated
Lead [Non renewable elements]	Mass	7,33E-04	kg	(No statement)
Lead ore [Non renewable resources]	Mass	1,77E-04	kg	Estimated
Lignite [Lignite (resource)]	Mass	2,24E+00	kg	(Estimated)
Lignite Australia [Lignite (resource)]	Mass	3,67E-04	kg	Literature
Lignite Australia [Lignite (resource)]	Mass	3,70E-05	kg	Literature
Lignite Austria [Lignite (resource)]	Mass	4,84E-07	kg	(Estimated)
Lignite France [Lignite (resource)]	Mass	5,65E-07	kg	Calculated
Lignite Germany (Lausitz) [Lignite (resource)]	Mass	4,14E-05	kg	Calculated
Lignite Germany (Rheinisch) [Lignite (resource)]	Mass	5,14E-03	kg	(Calculated)
Lignite Germany [Lignite (resource)]	Mass	1,96E-01	kg	(Literature)
Lignite Greece [Lignite (resource)]	Mass	8,85E-02	kg	Literature
Lignite Spain [Lignite (resource)]	Mass	1,78E-02	kg	(Literature)
Lignite USA [Lignite (resource)]	Mass	5,23E-05	kg	Literature
Limestone (calcium carbonate) [Non renewable resources]	Mass	1,22E-01	kg	(Literature)
Magnesit (Magnesium carbonate) [Non renewable resources]	Mass	2,14E-04	kg	(No statement)
Magnesium [Non renewable elements]	Mass	1,85E-08	kg	(No statement)
Manganese [Non renewable elements]	Mass	3,90E-05	kg	(No statement)
Manganese ore (R.O.M.) [Non renewable resources]	Mass	7,65E-04	kg	Calculated
Molybdenite (Mo 0,24%) [Non renewable resources]	Mass	2,36E-05	kg	Estimated
Molybdenum [Non renewable elements]	Mass	5,46E-05	kg	(No statement)
Natural Aggregate [Non renewable resources]	Mass	2,57E-01	kg	Calculated
Natural gas [Natural gas (resource)]	Mass	7,08E-01	kg	(Literature)
Natural gas Algeria [Natural gas (resource)]	Mass	5,49E-03	kg	(Literature)
Natural gas Angola [Natural gas (resource)]	Mass	1,01E-04	kg	(Estimated)
Natural gas Argentina [Natural gas (resource)]	Mass	2,47E-07	kg	Literature
Natural gas Australia [Natural gas (resource)]	Mass	1,15E-04	kg	(Estimated)
Natural gas Brazil [Natural gas (resource)]	Mass	4,10E-05	kg	(Estimated)
Natural gas Brunei [Natural gas (resource)]	Mass	4,27E-06	kg	Estimated
Natural gas Cameroon [Natural gas (resource)]	Mass	4,09E-05	kg	(Estimated)
Natural gas Canada [Natural gas (resource)]	Mass	1,08E-04	kg	(Literature)
Natural gas China [Natural gas (resource)]	Mass	1,24E-03	kg	(Calculated)
Natural gas CIS [Natural gas (resource)]	Mass	6,98E-02	kg	(Literature)
Natural gas Colombia [Natural gas (resource)]	Mass	6,30E-08	kg	(Literature)
Natural gas Denmark [Natural gas (resource)]	Mass	1,88E-03	kg	(Estimated)
Natural gas Egypt [Natural gas (resource)]	Mass	1,16E-04	kg	(Estimated)
Natural gas France [Natural gas (resource)]	Mass	1,75E-04	kg	(Estimated)
Natural gas Gabon [Natural gas (resource)]	Mass	5,58E-06	kg	(Estimated)
Natural gas Germany [Natural gas (resource)]	Mass	3,72E-02	kg	(Literature)
Natural gas Indonesia [Natural gas (resource)]	Mass	2,09E-05	kg	(Estimated)
Natural gas Iran [Natural gas (resource)]	Mass	2,44E-04	kg	(Estimated)
Natural gas Italy [Natural gas (resource)]	Mass	2,98E-03	kg	(Literature)
Natural gas Japan [Natural gas (resource)]	Mass	1,22E-06	kg	Estimated
Natural gas Kuwait [Natural gas (resource)]	Mass	2,28E-05	kg	(Estimated)

Appendix 2.3
LCI Data - Web based newspaper, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Natural gas Libyan [Natural gas (resource)]	Mass	1,25E-03	kg	(Literature)
Natural gas Malaysia [Natural gas (resource)]	Mass	6,04E-06	kg	Estimated
Natural gas Mexico [Natural gas (resource)]	Mass	1,56E-05	kg	(Literature)
Natural gas Netherlands [Natural gas (resource)]	Mass	6,31E-02	kg	(Estimated)
Natural gas New Zealand [Natural gas (resource)]	Mass	2,22E-07	kg	(Estimated)
Natural gas Nigeria [Natural gas (resource)]	Mass	2,70E-04	kg	(Estimated)
Natural gas Norway [Natural gas (resource)]	Mass	2,97E-02	kg	(Estimated)
Natural gas Oman [Natural gas (resource)]	Mass	4,32E-05	kg	(Estimated)
Natural gas Qatar [Natural gas (resource)]	Mass	1,25E-06	kg	(Estimated)
Natural gas Saudi Arabia [Natural gas (resource)]	Mass	3,63E-04	kg	(Estimated)
Natural gas Spain [Natural gas (resource)]	Mass	5,33E-05	kg	(Estimated)
Natural gas Tunisia [Natural gas (resource)]	Mass	5,41E-06	kg	(Literature)
Natural gas United Arab Emirates [Natural gas (resource)]	Mass	4,66E-06	kg	(Estimated)
Natural gas United Kingdom [Natural gas (resource)]	Mass	1,48E-03	kg	(Literature)
Natural gas USA [Natural gas (resource)]	Mass	1,42E-04	kg	(Estimated)
Natural gas Venezuela [Natural gas (resource)]	Mass	1,68E-04	kg	(Literature)
Nickel [Non renewable elements]	Mass	8,75E-04	kg	(No statement)
Nickel ore (1.6%) [Non renewable resources]	Mass	7,18E-03	kg	Measured
Nitrogen [Renewable resources]	Mass	4,62E-07	kg	(Literature)
Occupation, arable, non-irrigated [Hemerobie ecoinvent]	Areatime	8,61E-05	m2*yr	(No statement)
Occupation, construction site [Hemerobie ecoinvent]	Areatime	2,09E-04	m2*yr	(No statement)
Occupation, dump site [Hemerobie ecoinvent]	Areatime	1,07E-02	m2*yr	(No statement)
Occupation, dump site, benthos [Hemerobie ecoinvent]	Areatime	4,19E-04	m2*yr	(No statement)
Occupation, forest, intensive [Hemerobie ecoinvent]	Areatime	3,06E-04	m2*yr	(No statement)
Occupation, forest, intensive, normal [Hemerobie ecoinvent]	Areatime	1,61E-01	m2*yr	(No statement)
Occupation, industrial area [Hemerobie ecoinvent]	Areatime	6,35E-03	m2*yr	(No statement)
Occupation, industrial area, benthos [Hemerobie ecoinvent]	Areatime	4,16E-06	m2*yr	(No statement)
Occupation, industrial area, built up [Hemerobie ecoinvent]	Areatime	4,47E-04	m2*yr	(No statement)
Occupation, industrial area, vegetation [Hemerobie ecoinvent]	Areatime	3,59E-04	m2*yr	(No statement)
Occupation, mineral extraction site [Hemerobie ecoinvent]	Areatime	7,66E-03	m2*yr	(No statement)
Occupation, permanent crop, fruit, intensive [Hemerobie ecoinvent]	Areatime	1,36E-05	m2*yr	(No statement)
Occupation, shrub land, sclerophyllous [Hemerobie ecoinvent]	Areatime	4,88E-05	m2*yr	(No statement)
Occupation, traffic area, rail embankment [Hemerobie ecoinvent]	Areatime	3,13E-04	m2*yr	(No statement)
Occupation, traffic area, rail network [Hemerobie ecoinvent]	Areatime	3,47E-04	m2*yr	(No statement)
Occupation, traffic area, road embankment [Hemerobie ecoinvent]	Areatime	1,62E-03	m2*yr	(No statement)
Occupation, traffic area, road network [Hemerobie ecoinvent]	Areatime	1,17E-03	m2*yr	(No statement)
Occupation, urban, discontinuously built [Hemerobie ecoinvent]	Areatime	1,78E-07	m2*yr	(No statement)
Occupation, water bodies, artificial [Hemerobie ecoinvent]	Areatime	2,16E-02	m2*yr	(No statement)
Occupation, water courses, artificial [Hemerobie ecoinvent]	Areatime	8,46E-03	m2*yr	(No statement)
Olivine [Non renewable resources]	Mass	3,42E-09	kg	(No statement)
Palladium [Non renewable elements]	Mass	1,24E-09	kg	(No statement)

Appendix 2.3
LCI Data - Web based newspaper, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Peat [Renewable resources]	Mass	2,38E-02	kg	(No statement)
Phosphorus [Non renewable elements]	Mass	1,29E-05	kg	(No statement)
Phosphorus minerals [Non renewable resources]	Mass	2,05E-07	kg	Literature
Pit gas [Natural gas (resource)]	Mass	2,27E-02	kg	(Literature)
Platinum [Non renewable elements]	Mass	2,01E-10	kg	(No statement)
Potassium chloride [Non renewable resources]	Mass	7,23E-06	kg	Calculated
Precious metal ore (R.O.M) [Non renewable resources]	Mass	1,65E-01	kg	Calculated
Primary energy from hydro power (BUWAL) [Renewable energy resources]	Energy ren.	-9,41E-05	MJ	Literature
Primary energy from hydro power [Renewable energy resources]	Energy ren.	1,78E+01	MJ	(Literature)
Primary energy from solar energy [Renewable energy resources]	Energy ren.	3,80E-02	MJ	Literature
Primary energy from wind power [Renewable energy resources]	Energy ren.	2,13E+00	MJ	Calculated
Process and cooling water [Operating materials]	Mass	2,89E-09	kg	Literature
Process water [Operating materials]	Mass	1,80E+01	kg	(Measured)
Quartz sand (silica sand; silicon dioxide) [Non renewable resources]	Mass	4,58E-03	kg	(Literature)
Raw brown coal (BUWAL) [Lignite (resource)]	Mass	-1,55E-07	kg	Literature
Raw hard coal (BUWAL) [Hard coal (resource)]	Mass	-1,34E-07	kg	Literature
Raw natural gas (BUWAL) [Natural gas (resource)]	Mass	-2,19E-07	kg	Literature
Refractory [Minerals]	Mass	1,43E-12	kg	Measured
Renewable fuels [Renewable energy resources]	Mass	-1,64E-06	kg	Calculated
Rhenium [Non renewable elements]	Mass	9,45E-12	kg	(No statement)
Rhodium [Non renewable elements]	Mass	3,42E-11	kg	(No statement)
Rutile (titanium ore) [Non renewable resources]	Mass	1,34E-11	kg	(No statement)
sand [Non renewable resources]	Mass	1,05E-05	kg	(No statement)
Silver [Non renewable elements]	Mass	9,00E-09	kg	(No statement)
Slate [Non renewable resources]	Mass	2,19E-08	kg	(No statement)
Sodium chloride (rock salt) [Non renewable resources]	Mass	5,99E-02	kg	(Literature)
Sodium sulphate [Non renewable resources]	Mass	2,99E-05	kg	Literature
Soil [Non renewable resources]	Mass	5,93E-03	kg	(Calculated)
Steel scrap (St) [Waste for recovery]	Mass	9,37E-03	kg	Calculated
Sulphite [Inorganic emissions to sea water]	Mass	3,11E-16	kg	(No statement)
Sulphur (bonded) [Non renewable resources]	Mass	4,91E-08	kg	(Literature)
Sulphur [Non renewable elements]	Mass	5,05E-06	kg	(Literature)
Sylvite (25% in Sylvinite) [Non renewable resources]	Mass	5,00E-06	kg	(No statement)
Talc [Non renewable resources]	Mass	1,54E-04	kg	Calculated
Tin [Non renewable elements]	Mass	2,40E-07	kg	(No statement)
Tin ore [Non renewable resources]	Mass	7,15E-04	kg	Estimated
Titanium dioxide [Non renewable resources]	Mass	2,42E-04	kg	(No statement)
Titanium ore [Non renewable resources]	Mass	2,26E-06	kg	(No statement)
Transformation, from arable [Hemerobie ecoinvent]	Area	6,79E-06	sqm	(No statement)
Transformation, from arable, non-irrigated [Hemerobie ecoinvent]	Area	1,59E-04	sqm	(No statement)
Transformation, from arable, non-irrigated, fallow [Hemerobie ecoinvent]	Area	1,15E-07	sqm	(No statement)
Transformation, from dump site, inert material landfill [Hemerobie ecoinvent]	Area	6,07E-06	sqm	(No statement)
Transformation, from dump site, residual material landfill [Hemerobie ecoinvent]	Area	3,36E-06	sqm	(No statement)
Transformation, from dump site, sanitary landfill [Hemerobie ecoinvent]	Area	2,29E-07	sqm	(No statement)
Transformation, from dump site, slag compartment	Area	9,30E-08	sqm	(No statement)

Appendix 2.3
LCI Data - Web based newspaper, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
[Hemerobie ecoinvent]				
Transformation, from forest [Hemerobie ecoinvent]	Area	5,33E-04	sqm	(No statement)
Transformation, from forest, extensive [Hemerobie ecoinvent]	Area	1,15E-03	sqm	(No statement)
Transformation, from industrial area [Hemerobie ecoinvent]	Area	1,79E-05	sqm	(No statement)
Transformation, from industrial area, benthos [Hemerobie ecoinvent]	Area	2,04E-08	sqm	(No statement)
Transformation, from industrial area, built up [Hemerobie ecoinvent]	Area	3,16E-09	sqm	(No statement)
Transformation, from industrial area, vegetation [Hemerobie ecoinvent]	Area	5,39E-09	sqm	(No statement)
Transformation, from mineral extraction site [Hemerobie ecoinvent]	Area	1,19E-04	sqm	(No statement)
Transformation, from pasture and meadow [Hemerobie ecoinvent]	Area	7,48E-05	sqm	(No statement)
Transformation, from pasture and meadow, intensive [Hemerobie ecoinvent]	Area	1,28E-07	sqm	(No statement)
Transformation, from sea and ocean [Hemerobie ecoinvent]	Area	4,20E-04	sqm	(No statement)
Transformation, from shrub land, sclerophyllous [Hemerobie ecoinvent]	Area	5,93E-05	sqm	(No statement)
Transformation, from unknown [Hemerobie ecoinvent]	Area	5,91E-04	sqm	(No statement)
Transformation, to arable [Hemerobie ecoinvent]	Area	1,42E-04	sqm	(No statement)
Transformation, to arable, non-irrigated [Hemerobie ecoinvent]	Area	1,59E-04	sqm	(No statement)
Transformation, to arable, non-irrigated, fallow [Hemerobie ecoinvent]	Area	1,63E-07	sqm	(No statement)
Transformation, to dump site [Hemerobie ecoinvent]	Area	8,68E-05	sqm	(No statement)
Transformation, to dump site, benthos [Hemerobie ecoinvent]	Area	4,19E-04	sqm	(No statement)
Transformation, to dump site, inert material landfill [Hemerobie ecoinvent]	Area	6,07E-06	sqm	(No statement)
Transformation, to dump site, residual material landfill [Hemerobie ecoinvent]	Area	3,36E-06	sqm	(No statement)
Transformation, to dump site, sanitary landfill [Hemerobie ecoinvent]	Area	2,29E-07	sqm	(No statement)
Transformation, to dump site, slag compartment [Hemerobie ecoinvent]	Area	9,30E-08	sqm	(No statement)
Transformation, to forest [Hemerobie ecoinvent]	Area	2,66E-05	sqm	(No statement)
Transformation, to forest, intensive [Hemerobie ecoinvent]	Area	2,04E-06	sqm	(No statement)
Transformation, to forest, intensive, normal [Hemerobie ecoinvent]	Area	1,14E-03	sqm	(No statement)
Transformation, to heterogeneous, agricultural [Hemerobie ecoinvent]	Area	2,43E-05	sqm	(No statement)
Transformation, to industrial area [Hemerobie ecoinvent]	Area	1,20E-04	sqm	(No statement)
Transformation, to industrial area, benthos [Hemerobie ecoinvent]	Area	1,54E-07	sqm	(No statement)
Transformation, to industrial area, built up [Hemerobie ecoinvent]	Area	1,45E-05	sqm	(No statement)
Transformation, to industrial area, vegetation [Hemerobie ecoinvent]	Area	1,03E-05	sqm	(No statement)
Transformation, to mineral extraction site [Hemerobie ecoinvent]	Area	6,72E-04	sqm	(No statement)
Transformation, to pasture and meadow [Hemerobie ecoinvent]	Area	2,58E-06	sqm	(No statement)
Transformation, to permanent crop, fruit, intensive	Area	2,29E-07	sqm	(No statement)

Appendix 2.3
LCI Data - Web based newspaper, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
[Hemerobie ecoinvent]				
Transformation, to sea and ocean [Hemerobie ecoinvent]	Area	2,04E-08	sqm	(No statement)
Transformation, to shrub land, sclerophyllous [Hemerobie ecoinvent]	Area	9,75E-06	sqm	(No statement)
Transformation, to traffic area, rail embankment [Hemerobie ecoinvent]	Area	7,29E-07	sqm	(No statement)
Transformation, to traffic area, rail network [Hemerobie ecoinvent]	Area	8,02E-07	sqm	(No statement)
Transformation, to traffic area, road embankment [Hemerobie ecoinvent]	Area	1,13E-05	sqm	(No statement)
Transformation, to traffic area, road network [Hemerobie ecoinvent]	Area	1,69E-05	sqm	(No statement)
Transformation, to unknown [Hemerobie ecoinvent]	Area	1,57E-05	sqm	(No statement)
Transformation, to urban, discontinuously built [Hemerobie ecoinvent]	Area	3,54E-09	sqm	(No statement)
Transformation, to water bodies, artificial [Hemerobie ecoinvent]	Area	1,57E-04	sqm	(No statement)
Transformation, to water courses, artificial [Hemerobie ecoinvent]	Area	1,03E-04	sqm	(No statement)
Ulexite [Non renewable resources]	Mass	1,02E-06	kg	(No statement)
Uranium free ore (BUWAL) [Uranium (resource)]	Mass	-4,32E-09	kg	Literature
Uranium free ore [Uranium (resource)]	Mass	6,59E-17	kg	Literature
Uranium natural [Uranium (resource)]	Mass	1,52E-04	kg	(Literature)
Waste (solid) [Waste for disposal]	Mass	0,00E+00	kg	(No statement)
Waste for recovery (unspecified) [Waste for recovery]	Mass	1,00E-01	kg	(No statement)
Water (feed water) [Water]	Mass	4,27E-03	kg	(Literature)
Water (ground water) [Water]	Mass	1,59E+01	kg	(Estimated)
Water (lake water) [Water]	Mass	1,05E-01	kg	(No statement)
Water (river water) [Water]	Mass	5,81E+01	kg	(No statement)
Water (sea water) [Water]	Mass	8,93E+00	kg	(Literature)
Water (surface water) [Water]	Mass	6,31E+01	kg	(Literature)
Water [Water]	Mass	3,04E+02	kg	(Literature)
Water for industrial use [Operating materials]	Mass	1,94E+00	kg	(Calculated)
Water, salt, sole [in water]	Volume	2,44E-04	m3	(No statement)
Water,turbine use, unspecified natural origin [in water]	Volume	8,42E+01	m3	(No statement)
Vermiculite [Non renewable resources]	Mass	1,00E-07	kg	(No statement)
Volume occupied, final repository for low-active radioactive waste [Hemerobie ecoinvent]	Volume	2,79E-07	m3	(No statement)
Volume occupied, final repository for radioactive waste [Hemerobie ecoinvent]	Volume	7,05E-08	m3	(No statement)
Volume occupied, reservoir [Hemerobie ecoinvent]	Cubic meter years	2,83E-01	m3a	(No statement)
Volume occupied, underground deposit [Hemerobie ecoinvent]	Volume	1,38E-07	m3	(No statement)
Wood (BUWAL) [Renewable energy resources]	Mass	-3,06E-03	kg	Literature
Wood [Renewable energy resources]	Mass	2,41E-03	kg	(Estimated)
Wood, hard, standing [biotic]	Volume	1,16E-04	m3	(No statement)
Wood, soft, standing [biotic]	Volume	2,59E-04	m3	(No statement)
Zinc - copper ore (4.07%-2.59%) [Non renewable resources]	Mass	1,23E-01	kg	(Estimated)
Zinc - lead - copper ore (12%-3%-2%) [Non renewable resources]	Mass	9,20E-02	kg	Calculated
Zinc - lead ore (4.21%-4.96%) [Non renewable resources]	Mass	1,46E-10	kg	Estimated
Zinc [Non renewable elements]	Mass	2,89E-05	kg	(No statement)

Appendix 2.3
LCI Data - Web based newspaper, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Zinc ore (sulphide) [Non renewable resources]	Mass	1,01E-11	kg	Calculated
Flow - Outputs	**Quantity**	**Amount**	**Unit**	**Origin of data**
Acenaphthene [Hydrocarbons to fresh water]	Mass	8,12E-11	kg	(No statement)
Acenaphthene [Hydrocarbons to sea water]	Mass	4,06E-11	kg	(No statement)
Acenaphthylene [Hydrocarbons to fresh water]	Mass	5,08E-12	kg	(No statement)
Acenaphthylene [Hydrocarbons to sea water]	Mass	2,54E-12	kg	(No statement)
Acentaphthene [Group NMVOC to air]	Mass	2,16E-11	kg	(No statement)
Acetaldehyde (Ethanal) [Group NMVOC to air]	Mass	3,35E-06	kg	(Literature)
Acetic acid [Group NMVOC to air]	Mass	1,66E-05	kg	(Literature)
Acetic acid [Hydrocarbons to fresh water]	Mass	1,76E-07	kg	(No statement)
Acetone (dimethylcetone) [Group NMVOC to air]	Mass	4,38E-06	kg	(Literature)
Acid (calculated as H+) [Inorganic emissions to fresh water]	Mass	1,51E-05	kg	(Literature)
Aclonifen [Pesticides to agricultural soil]	Mass	2,60E-10	kg	(No statement)
Acrolein [Group NMVOC to air]	Mass	1,39E-09	kg	(No statement)
Acrylonitrile [Hydrocarbons to fresh water]	Mass	1,02E-05	kg	(Calculated)
Adsorbable organic halogen compounds (AOX) [Analytical measures to fresh water]	Mass	4,18E-05	kg	(Measured)
Adsorbable organic halogen compounds (AOX) [Analytical measures to sea water]	Mass	3,32E-09	kg	(No statement)
Aktinide (general) [Radioactive emissions to air]	Activity	3,07E-06	Bq	(No statement)
Aktinide (general) [Radioactive emissions to sea water]	Activity	3,96E-01	Bq	(No statement)
Aldehyde (unspecified) [Group NMVOC to air]	Mass	1,39E-07	kg	(Literature)
Alkane (unspecified) [Group NMVOC to air]	Mass	4,81E-05	kg	(Calculated)
Alkane (unspecified) [Hydrocarbons to fresh water]	Mass	1,70E-06	kg	(No statement)
Alkane (unspecified) [Hydrocarbons to sea water]	Mass	8,49E-07	kg	(No statement)
Alkene (unspecified) [Group NMVOC to air]	Mass	3,20E-05	kg	(Calculated)
Alkene (unspecified) [Hydrocarbons to fresh water]	Mass	1,57E-07	kg	(No statement)
Alkene (unspecified) [Hydrocarbons to sea water]	Mass	7,84E-08	kg	(No statement)
Aluminum [Fresh water]	Mass	6,13E-03	kg	(No statement)
Aluminum [Inorganic emissions to agricultural soil]	Mass	8,67E-06	kg	(No statement)
Aluminum [Inorganic emissions to fresh water]	Mass	6,51E-05	kg	(Literature)
Aluminum [Inorganic emissions to industrial soil]	Mass	1,14E-05	kg	(No statement)
Aluminum [Inorganic emissions to sea water]	Mass	4,84E-06	kg	(No statement)
Aluminum [Particles to air]	Mass	2,45E-04	kg	(No statement)
Aluminum scrap [Waste for recovery]	Mass	1,11E-06	kg	Measured
Americium (Am241) [Radioactive emissions to fresh water]	Activity	1,92E-02	Bq	Calculated
Ammonia [Inorganic emissions to air]	Mass	1,76E-04	kg	(Calculated)
Ammonia [Inorganic emissions to fresh water]	Mass	4,67E-07	kg	(Measured)
Ammonium / ammonia [Fresh water]	Mass	6,71E-07	kg	(No statement)
Ammonium / ammonia [Inorganic emissions to fresh water]	Mass	6,90E-05	kg	(Literature)
Ammonium / ammonia [Inorganic emissions to sea water]	Mass	4,74E-07	kg	(No statement)
Ammonium [Inorganic emissions to air]	Mass	2,56E-06	kg	Measured
Ammonium carbonate [high population density]	Mass	4,08E-09	kg	(No statement)
Ammonium nitrate [Inorganic emissions to air]	Mass	2,89E-10	kg	(Literature)
Antimony (Sb122) [Radioactive emissions to fresh water]	Activity	9,26E-05	Bq	(No statement)
Antimony (Sb124) [Radioactive emissions to air]	Activity	1,39E-04	Bq	(Literature)
Antimony (Sb124) [Radioactive emissions to fresh water]	Activity	6,51E-02	Bq	(Literature)
Antimony (Sb125) [Radioactive emissions to air]	Activity	2,40E-06	Bq	(No statement)
Antimony (Sb125) [Radioactive emissions to fresh water]	Activity	6,20E-02	Bq	(Literature)
Antimony [Fresh water]	Mass	1,33E-04	kg	(No statement)

Appendix 2.3
LCI Data - Web based newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Antimony [Heavy metals to agricultural soil]	Mass	3,72E-13	kg	(No statement)
Antimony [Heavy metals to air]	Mass	7,56E-07	kg	(Calculated)
Antimony [Heavy metals to fresh water]	Mass	7,23E-05	kg	(No statement)
Argon (Ar41) [Radioactive emissions to air]	Activity	8,60E+01	Bq	(Literature)
Aromatic hydrocarbons (unspecified) [Group NMVOC to air]	Mass	4,45E-07	kg	(Calculated)
Aromatic hydrocarbons (unspecified) [Hydrocarbons to fresh water]	Mass	6,86E-06	kg	Literature
Aromatic hydrocarbons (unspecified) [Hydrocarbons to sea water]	Mass	3,87E-06	kg	(No statement)
Arsenic [Fresh water]	Mass	2,62E-07	kg	(No statement)
Arsenic [Heavy metals to agricultural soil]	Mass	2,53E-09	kg	(No statement)
Arsenic [Heavy metals to air]	Mass	1,23E-06	kg	(Literature)
Arsenic [Heavy metals to fresh water]	Mass	5,36E-06	kg	(Literature)
Arsenic [Heavy metals to industrial soil]	Mass	2,31E-07	kg	Measured
Arsenic [Heavy metals to sea water]	Mass	9,25E-09	kg	(No statement)
Arsenic trioxide [Heavy metals to air]	Mass	6,88E-12	kg	Measured
Ash [Stockpile goods] *Not followed to the grave*	Mass	-1,46E-05	kg	Calculated
Atrazine [Pesticides to agricultural soil]	Mass	1,17E-11	kg	(No statement)
Barium (Ba140) [Radioactive emissions to air]	Activity	1,56E-04	Bq	(No statement)
Barium (Ba140) [Radioactive emissions to fresh water]	Activity	4,06E-04	Bq	(No statement)
Barium [Fresh water]	Mass	1,13E-04	kg	(No statement)
Barium [Inorganic emissions to agricultural soil]	Mass	1,76E-10	kg	(No statement)
Barium [Inorganic emissions to air]	Mass	4,02E-06	kg	(Literature)
Barium [Inorganic emissions to fresh water]	Mass	1,34E-05	kg	(Literature)
Barium [Inorganic emissions to industrial soil]	Mass	5,71E-06	kg	(No statement)
Barium [Inorganic emissions to sea water]	Mass	5,70E-06	kg	(No statement)
Barytes [ocean]	Mass	2,61E-04	kg	(No statement)
Battery Li-Ion (E-Paper) [Flows]	Mass	4,14E-11	kg	(No statement)
Bentazone [Pesticides to agricultural soil]	Mass	1,32E-10	kg	(No statement)
Benzaldehyde [Group NMVOC to air]	Mass	5,00E-11	kg	(No statement)
Benzene [Group NMVOC to air]	Mass	4,57E-05	kg	(Literature)
Benzene [Hydrocarbons to fresh water]	Mass	1,41E-06	kg	(Literature)
Benzene [Hydrocarbons to sea water]	Mass	5,40E-07	kg	(No statement)
Benzo{a}pyrene [Group PAH to air]	Mass	2,09E-07	kg	(Literature)
Beryllium [Fresh water]	Mass	8,50E-07	kg	(No statement)
Beryllium [Inorganic emissions to air]	Mass	2,51E-08	kg	(Literature)
Beryllium [Inorganic emissions to fresh water]	Mass	3,44E-09	kg	(Literature)
Biological oxygen demand (BOD) [Analytical measures to fresh water]	Mass	3,97E-03	kg	(Literature)
Biological oxygen demand (BOD) [Analytical measures to sea water]	Mass	9,87E-04	kg	(No statement)
Biological oxygen demand, BSB5 (Ecoinvent) [Fresh water]	Mass	3,87E-04	kg	(No statement)
Boiler ash (unspecified) [Waste for recovery]	Mass	-7,31E-05	kg	Calculated
Boron [Fresh water]	Mass	1,48E-04	kg	(No statement)
Boron [Inorganic emissions to air]	Mass	7,85E-08	kg	(No statement)
Boron [Inorganic emissions to fresh water]	Mass	5,94E-06	kg	(Literature)
Boron [Inorganic emissions to sea water]	Mass	5,36E-08	kg	(No statement)
Boron compounds (unspecified) [Inorganic emissions to air]	Mass	8,25E-05	kg	(Calculated)
Bromate [Inorganic emissions to fresh water]	Mass	2,24E-07	kg	(No statement)
Bromine [Fresh water]	Mass	5,14E-05	kg	(No statement)
Bromine [Inorganic emissions to air]	Mass	1,40E-05	kg	(Calculated)

Appendix 2.3
LCI Data - Web based newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Bromine [Inorganic emissions to fresh water]	Mass	2,53E-04	kg	(No statement)
Bromine [Inorganic emissions to sea water]	Mass	4,57E-06	kg	(No statement)
Butadiene [Group NMVOC to air]	Mass	7,89E-14	kg	(No statement)
Butane (n-butane) [Group NMVOC to air]	Mass	1,32E-06	kg	(Measured)
Butane [Group NMVOC to air]	Mass	5,08E-05	kg	(Literature)
Butene [Group NMVOC to air]	Mass	4,09E-07	kg	(No statement)
Butene [Hydrocarbons to fresh water]	Mass	6,23E-10	kg	(No statement)
Cadmium [Fresh water]	Mass	3,91E-07	kg	(No statement)
Cadmium [Heavy metals to agricultural soil]	Mass	5,14E-09	kg	(No statement)
Cadmium [Heavy metals to air]	Mass	2,89E-07	kg	(Literature)
Cadmium [Heavy metals to fresh water]	Mass	9,23E-07	kg	(Literature)
Cadmium [Heavy metals to industrial soil]	Mass	3,69E-08	kg	Measured
Cadmium [Heavy metals to sea water]	Mass	2,33E-09	kg	(No statement)
CaF2 (low radioactice) [Radioactive waste]	Mass	3,78E-07	kg	(Literature)
Calcium [Fresh water]	Mass	2,25E-02	kg	(No statement)
Calcium [Inorganic emissions to fresh water]	Mass	2,75E-03	kg	(Literature)
Calcium [Inorganic emissions to sea water]	Mass	2,12E-04	kg	(No statement)
Carbetamide [Pesticides to agricultural soil]	Mass	5,29E-11	kg	(No statement)
Carbon (C14) [Radioactive emissions to air]	Activity	2,78E+02	Bq	(Literature)
Carbon (C14) [Radioactive emissions to fresh water]	Activity	9,97E-01	Bq	(Estimated)
Carbon (unspecified) [Organic emissions to agricultural soil]	Mass	2,27E-05	kg	(No statement)
Carbon (unspecified) [Organic emissions to industrial soil]	Mass	3,43E-05	kg	(No statement)
Carbon dioxide (biotic) [Air]	Mass	3,35E-01	kg	(No statement)
Carbon dioxide [Inorganic emissions to air]	Mass	1,02E+01	kg	(Literature)
Carbon disulphide [Inorganic emissions to air]	Mass	6,80E-06	kg	(No statement)
Carbon monoxide (biotic) [Air]	Mass	9,55E-05	kg	(No statement)
Carbon monoxide [Inorganic emissions to air]	Mass	5,79E-03	kg	(Literature)
Carbon tetrachloride (tetrachloromethane) [Halogenated organic emissions to air]	Mass	1,90E-09	kg	(No statement)
Carbonate [Inorganic emissions to fresh water]	Mass	1,43E-05	kg	(Literature)
Cerium (Ce141) [Radioactive emissions to air]	Activity	3,78E-05	Bq	(No statement)
Cerium (Ce141) [Radioactive emissions to fresh water]	Activity	1,62E-04	Bq	(No statement)
Cerium (Ce144) [Radioactive emissions to fresh water]	Activity	4,94E-05	Bq	(No statement)
Cesium (Cs134) [Radioactive emissions to air]	Activity	5,37E-03	Bq	(Literature)
Cesium (Cs134) [Radioactive emissions to fresh water]	Activity	1,35E+00	Bq	(Literature)
Cesium (Cs136) [Radioactive emissions to fresh water]	Activity	2,88E-05	Bq	(No statement)
Cesium (Cs137) [Radioactive emissions to air]	Activity	1,20E-02	Bq	(Literature)
Cesium (Cs137) [Radioactive emissions to fresh water]	Activity	9,22E+00	Bq	(Literature)
Cesium (Cs137) [Radioactive emissions to sea water]	Activity	4,54E+01	Bq	(No statement)
Cesium [Heavy metals to fresh water]	Mass	1,30E-08	kg	(No statement)
Cesium [Heavy metals to sea water]	Mass	6,53E-09	kg	(No statement)
Chemical oxygen demand (COD) [Analytical measures to fresh water]	Mass	1,81E-02	kg	(Literature)
Chemical oxygen demand (COD) [Analytical measures to sea water]	Mass	9,93E-04	kg	Estimated
Chemical oxygen demand, CSB (Ecoinvent) [Fresh water]	Mass	1,18E-03	kg	(No statement)
Chlorate [Inorganic emissions to fresh water]	Mass	1,94E-06	kg	(No statement)
Chloride (unspecified) [Inorganic emissions to air]	Mass	4,72E-06	kg	(Measured)
Chloride [Fresh water]	Mass	4,23E-05	kg	(No statement)
Chloride [Inorganic emissions to fresh water]	Mass	5,35E-02	kg	(Literature)
Chloride [Inorganic emissions to sea water]	Mass	3,28E-03	kg	(No statement)

Appendix 2.3
LCI Data - Web based newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Chlorinated hydrocarbons (unspecified) [Halogenated organic emissions to fresh water]	Mass	8,19E-08	kg	(Estimated)
Chlorine (dissolved) [Inorganic emissions to fresh water]	Mass	1,68E-05	kg	(Literature)
Chlorine [Inorganic emissions to agricultural soil]	Mass	1,12E-06	kg	(No statement)
Chlorine [Inorganic emissions to air]	Mass	7,97E-07	kg	(Literature)
Chlorine [Inorganic emissions to industrial soil]	Mass	8,02E-05	kg	(No statement)
Chloromethane (methyl chloride) [Halogenated organic emissions to air]	Mass	3,64E-09	kg	Estimated
Chloromethane (methyl chloride) [Halogenated organic emissions to fresh water]	Mass	1,59E-07	kg	(Literature)
Chlorothalonil [Pesticides to agricultural soil]	Mass	6,16E-09	kg	(No statement)
Chlorous dissolvent [Halogenated organic emissions to fresh water]	Mass	6,90E-09	kg	(No statement)
Chlorous dissolvent [Halogenated organic emissions to sea water]	Mass	6,11E-16	kg	(No statement)
Chromium (Cr51) [Radioactive emissions to air]	Activity	2,42E-06	Bq	(No statement)
Chromium (Cr51) [Radioactive emissions to fresh water]	Activity	6,29E-02	Bq	(No statement)
Chromium (unspecified) [Heavy metals to agricultural soil]	Mass	7,52E-08	kg	(No statement)
Chromium (unspecified) [Heavy metals to air]	Mass	1,69E-06	kg	(Literature)
Chromium (unspecified) [Heavy metals to fresh water]	Mass	4,57E-08	kg	(Literature)
Chromium (unspecified) [Heavy metals to industrial soil]	Mass	5,93E-08	kg	(No statement)
Chromium +III [Heavy metals to fresh water]	Mass	2,89E-08	kg	(Literature)
Chromium +VI [Fresh water]	Mass	4,46E-06	kg	(No statement)
Chromium +VI [Heavy metals to air]	Mass	3,87E-08	kg	(No statement)
Chromium +VI [Heavy metals to fresh water]	Mass	3,22E-06	kg	(No statement)
Chromium +VI [Heavy metals to industrial soil]	Mass	3,30E-06	kg	(No statement)
Cobalt (Co57) [Radioactive emissions to fresh water]	Activity	9,14E-04	Bq	(No statement)
Cobalt (Co58) [Radioactive emissions to air]	Activity	3,60E-04	Bq	(Literature)
Cobalt (Co58) [Radioactive emissions to fresh water]	Activity	5,06E-01	Bq	(Literature)
Cobalt (Co60) [Radioactive emissions to air]	Activity	4,05E-03	Bq	(Literature)
Cobalt (Co60) [Radioactive emissions to fresh water]	Activity	4,58E+00	Bq	(Literature)
Cobalt [Fresh water]	Mass	1,10E-05	kg	(No statement)
Cobalt [Heavy metals to agricultural soil]	Mass	7,06E-09	kg	(No statement)
Cobalt [Heavy metals to air]	Mass	6,44E-07	kg	(Literature)
Cobalt [Heavy metals to fresh water]	Mass	2,74E-08	kg	(No statement)
Cobalt [Heavy metals to sea water]	Mass	1,37E-09	kg	(No statement)
Copper [Fresh water]	Mass	1,18E-04	kg	(No statement)
Copper [Heavy metals to agricultural soil]	Mass	8,48E-08	kg	(No statement)
Copper [Heavy metals to air]	Mass	4,88E-06	kg	(Literature)
Copper [Heavy metals to fresh water]	Mass	2,66E-06	kg	(Literature)
Copper [Heavy metals to industrial soil]	Mass	2,91E-06	kg	Measured
Copper [Heavy metals to sea water]	Mass	1,74E-08	kg	(No statement)
Cumene (isopropylbenzene) [Group NMVOC to air]	Mass	7,30E-08	kg	(No statement)
Cumene (isopropylbenzene) [Organic emissions to fresh water]	Mass	1,75E-07	kg	(No statement)
Curium (Cm alpha) [Radioactive emissions to fresh water]	Activity	2,55E-02	Bq	Calculated
Cyanide (unspecified) [Inorganic emissions to air]	Mass	6,11E-07	kg	(No statement)
Cyanide [Inorganic emissions to fresh water]	Mass	1,62E-06	kg	(Literature)
Cyanide [Inorganic emissions to sea water]	Mass	2,32E-08	kg	(No statement)
Cycloalkanes (unspec.) [Group NMVOC to air]	Mass	1,63E-09	kg	(No statement)
Cypermethrin [Pesticides to agricultural soil]	Mass	1,32E-12	kg	(No statement)
Detergent (unspecified) [Other emissions to fresh water]	Mass	1,44E-10	kg	(Literature)

Appendix 2.3
LCI Data - Web based newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Dichloroethane (ethylene dichloride) [Halogenated organic emissions to air]	Mass	1,80E-08	kg	(No statement)
Dichloroethane (ethylene dichloride) [Halogenated organic emissions to fresh water]	Mass	1,29E-08	kg	(No statement)
Dichloromethane (methylene chloride) [Halogenated organic emissions to air]	Mass	5,72E-06	kg	Calculated
Dichloromethane (methylene chloride) [Halogenated organic emissions to fresh water]	Mass	2,89E-07	kg	(No statement)
Dichloropropane [Halogenated organic emissions to fresh water]	Mass	0,00E+00	kg	Estimated
Dichromate [river]	Mass	8,61E-08	kg	(No statement)
Diethyl amine (ethylene ethane amine) [Group NMVOC to air]	Mass	6,41E-11	kg	Measured
Different pollutants [Other emissions to agricultural soil]	Mass	1,67E-04	kg	(No statement)
Different pollutants [Other emissions to industrial soil]	Mass	8,36E-05	kg	(No statement)
Dinoseb [Pesticides to agricultural soil]	Mass	1,68E-09	kg	(No statement)
Dissolved organic carbon, DOC (Ecoinvent) [Fresh water]	Mass	5,14E-04	kg	(No statement)
Dust (> PM10) [Particles to air]	Mass	5,20E-03	kg	(No statement)
Dust (PM2,5 - PM10) [Particles to air]	Mass	4,36E-04	kg	(No statement)
Dust (PM2.5) [Particles to air]	Mass	1,91E-03	kg	(No statement)
Dust (unspecified) [Particles to air]	Mass	2,21E-03	kg	(Literature)
Ethane [Group NMVOC to air]	Mass	3,16E-04	kg	(Literature)
Ethanol [Group NMVOC to air]	Mass	6,54E-06	kg	(Literature)
Ethene (ethylene) [Group NMVOC to air]	Mass	1,80E-06	kg	(Literature)
Ethene (ethylene) [Hydrocarbons to fresh water]	Mass	6,47E-08	kg	(No statement)
Ethine (acetylene) [Group NMVOC to air]	Mass	7,99E-08	kg	(No statement)
Ethyl benzene [Group NMVOC to air]	Mass	1,35E-05	kg	(Calculated)
Ethyl benzene [Hydrocarbons to fresh water]	Mass	3,99E-07	kg	(Literature)
Ethyl benzene [Hydrocarbons to sea water]	Mass	1,57E-07	kg	(No statement)
Ethylene oxide [Group NMVOC to air]	Mass	8,57E-10	kg	(No statement)
Ethylene oxide [Hydrocarbons to fresh water]	Mass	2,83E-11	kg	(No statement)
Ethylenediamine [Group NMVOC to air]	Mass	1,40E-12	kg	(No statement)
Ethylenediamine [Organic emissions to fresh water]	Mass	3,40E-12	kg	(No statement)
Exhaust [Other emissions to air]	Mass	9,67E+00	kg	(Calculated)
Fatty acids (calculated as total carbon) [Hydrocarbons to fresh water]	Mass	4,80E-05	kg	(No statement)
Fatty acids (calculated as total carbon) [Hydrocarbons to sea water]	Mass	3,89E-05	kg	(No statement)
Fenpiclonil [Pesticides to agricultural soil]	Mass	2,51E-10	kg	(No statement)
Fluoride (unspecified) [Inorganic emissions to air]	Mass	4,30E-07	kg	(Literature)
Fluoride [Fresh water]	Mass	1,63E-05	kg	(No statement)
Fluoride [Inorganic emissions to fresh water]	Mass	1,42E-04	kg	(Literature)
Fluoride [Inorganic emissions to industrial soil]	Mass	2,80E-06	kg	(No statement)
Fluoride [Inorganic emissions to sea water]	Mass	7,65E-07	kg	(No statement)
Fluorides [Inorganic emissions to air]	Mass	3,45E-10	kg	(Estimated)
Fluorine [Inorganic emissions to air]	Mass	1,86E-07	kg	(Literature)
Fluorine [Inorganic emissions to fresh water]	Mass	2,48E-06	kg	(Measured)
Fly ash (unspecified) [Waste for recovery]	Mass	-2,84E-04	kg	Calculated
Formaldehyde (methanal) [Group NMVOC to air]	Mass	2,01E-05	kg	(Literature)
Formaldehyde (methanal) [Hydrocarbons to fresh water]	Mass	2,55E-08	kg	Literature
Glutaraldehyde [Hydrocarbons to sea water]	Mass	3,23E-08	kg	(No statement)
Glyphosate [Pesticides to agricultural soil]	Mass	9,62E-10	kg	(No statement)
Glyphosate [Pesticides to industrial soil]	Mass	2,11E-08	kg	(No statement)
Graphites [Particles to air]	Mass	0,00E+00	kg	Estimated

Appendix 2.3
LCI Data - Web based newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Gypsum (FDI) [Waste for recovery]	Mass	9,42E-04	kg	(Measured)
Gypsum [Waste for recovery]	Mass	5,80E-05	kg	(Estimated)
Halogenated hydrocarbons (unspecified) [Halogenated organic emissions to air]	Mass	-3,59E-13	kg	Literature
Halon (1211) [Halogenated organic emissions to air]	Mass	2,60E-08	kg	(No statement)
Halon (1301) [Halogenated organic emissions to air]	Mass	1,75E-08	kg	(Literature)
Hazardous waste (unspec.) [Hazardous waste]	Mass	4,14E-02	kg	(Literature)
Heat from natural gas [Flows]	Energy	5,23E-12	MJ	(No statement)
Heat from oil [Flows]	Energy	4,70E-11	MJ	(No statement)
Heat from waste [Flows]	Energy	5,61E-11	MJ	(No statement)
Heavy metals to water (unspecified) [Heavy metals to fresh water]	Mass	9,92E-08	kg	(Measured)
Helium [Inorganic emissions to air]	Mass	4,61E-06	kg	(Literature)
Heptane (isomers) [Group NMVOC to air]	Mass	4,08E-06	kg	(No statement)
Hexachlorobenzene (Perchlorobenzene) [Halogenated organic emissions to air]	Mass	1,87E-10	kg	(No statement)
Hexaflourosilicates [Air]	Mass	2,56E-08	kg	(No statement)
Hexaflourosilicates [Sweet-]	Mass	4,61E-08	kg	(No statement)
Hexane (isomers) [Group NMVOC to air]	Mass	3,27E-05	kg	(Literature)
Highly radioactive waste [Radioactive waste]	Mass	5,54E-06	kg	(Calculated)
Highly-active fission product solution [Radioactive waste]	Mass	4,10E-08	kg	(Estimated)
Housing (E-Paper) [Flows]	Mass	2,48E-06	kg	(No statement)
Hydrocarbons (unspecified) [Hydrocarbons to fresh water]	Mass	3,83E-06	kg	(Literature)
Hydrocarbons (unspecified) [Hydrocarbons to sea water]	Mass	4,89E-06	kg	(No statement)
Hydrocarbons, aromatic [Group NMVOC to air]	Mass	3,76E-06	kg	(No statement)
Hydrocarbons, chloro-/fluoro- [Halogenated organic emissions to air]	Mass	1,27E-08	kg	(No statement)
Hydrocarbons, halogenated [Halogenated organic emissions to air]	Mass	2,82E-09	kg	(No statement)
Hydrogen (H3) [Radioactive emissions to air]	Activity	1,50E+03	Bq	(Literature)
Hydrogen (H3) [Radioactive emissions to fresh water]	Activity	3,90E+04	Bq	(Literature)
Hydrogen (H3) [Radioactive emissions to sea water]	Activity	9,42E+04	Bq	(No statement)
Hydrogen [Inorganic emissions to air]	Mass	3,50E-05	kg	(Measured)
Hydrogen arsenic (arsine) [Heavy metals to air]	Mass	5,71E-10	kg	Measured
Hydrogen chloride [Inorganic emissions to air]	Mass	6,61E-04	kg	(Literature)
Hydrogen chloride [Inorganic emissions to fresh water]	Mass	1,27E-12	kg	Estimated
Hydrogen cyanide (prussic acid) [Inorganic emissions to air]	Mass	3,84E-08	kg	(Calculated)
Hydrogen fluoride (hydrofluoric acid) [Inorganic emissions to fresh water]	Mass	1,85E-09	kg	Measured
Hydrogen fluoride [Inorganic emissions to air]	Mass	1,71E-04	kg	(Literature)
Hydrogen peroxide [Sweet-]	Mass	9,65E-10	kg	(No statement)
Hydrogen sulphide [Fresh water]	Mass	2,84E-06	kg	(No statement)
Hydrogen sulphide [Inorganic emissions to air]	Mass	7,54E-05	kg	(Literature)
Hydrogen sulphide [Inorganic emissions to fresh water]	Mass	7,54E-08	kg	(No statement)
Hydroxide [Inorganic emissions to fresh water]	Mass	6,00E-06	kg	Estimated
Hypochlorite [Inorganic emissions to fresh water]	Mass	3,17E-06	kg	(No statement)
Hypochlorite [Inorganic emissions to sea water]	Mass	3,56E-06	kg	(No statement)
Iliad Module (E-Paper) [Flows]	Mass	4,87E-12	kg	(No statement)
Incineration good [Waste for disposal]	Mass	9,36E-05	kg	Literature
Industrial waste for municipal disposal [Consumer waste]	Mass	9,67E-03	kg	(Literature)
inert chemical waste [Consumer waste]	Mass	1,60E-04	kg	(Literature)
Inert gases [Radioactive emissions to air]	Activity	2,34E+06	Bq	(No statement)

Appendix 2.3
LCI Data - Web based newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Inorganic salts and acids (unspecified) [Inorganic emissions to fresh water]	Mass	-3,81E-08	kg	Literature
Iodide [Fresh water]	Mass	2,78E-12	kg	(No statement)
Iodide [Inorganic emissions to fresh water]	Mass	1,59E-06	kg	(No statement)
Iodide [Inorganic emissions to sea water]	Mass	6,53E-07	kg	(No statement)
Iodine (I129) [Radioactive emissions to air]	Activity	2,85E-01	Bq	Calculated
Iodine (I129) [Radioactive emissions to fresh water]	Activity	2,85E+00	Bq	(Estimated)
Iodine (I131) [Radioactive emissions to air]	Activity	1,24E+01	Bq	(Literature)
Iodine (I131) [Radioactive emissions to fresh water]	Activity	1,20E-02	Bq	(Literature)
Iodine (I133) [Radioactive emissions to air]	Activity	1,86E-04	Bq	(No statement)
Iodine (I133) [Radioactive emissions to fresh water]	Activity	2,55E-04	Bq	(No statement)
Iodine [Inorganic emissions to air]	Mass	2,85E-06	kg	(No statement)
Iron (Fe59) [Radioactive emissions to fresh water]	Activity	7,00E-05	Bq	(No statement)
Iron [Fresh water]	Mass	3,94E-03	kg	(No statement)
Iron [Heavy metals to agricultural soil]	Mass	2,03E-05	kg	(No statement)
Iron [Heavy metals to air]	Mass	2,33E-06	kg	(Literature)
Iron [Heavy metals to fresh water]	Mass	4,18E-03	kg	(Literature)
Iron [Heavy metals to industrial soil]	Mass	6,30E-05	kg	(No statement)
Iron [Heavy metals to sea water]	Mass	3,55E-07	kg	(No statement)
Isocyanide acid [Air]	Mass	1,03E-06	kg	(No statement)
Jacket and body material [Radioactive waste]	Mass	5,37E-09	kg	(Calculated)
Krypton (Kr85) [Radioactive emissions to air]	Activity	7,37E+05	Bq	(Literature)
Krypton (Kr85m) [Radioactive emissions to air]	Activity	5,02E+00	Bq	(Literature)
Krypton (Kr87) [Radioactive emissions to air]	Activity	1,69E+00	Bq	(No statement)
Krypton (Kr88) [Radioactive emissions to air]	Activity	1,59E+00	Bq	(No statement)
Krypton (Kr89) [Radioactive emissions to air]	Activity	3,58E-01	Bq	(No statement)
Lanthanides [Heavy metals to air]	Mass	9,21E-10	kg	(Estimated)
Lanthanum (La140) [Radioactive emissions to fresh water]	Activity	4,32E-04	Bq	(No statement)
Lanthanum (La141) [Radioactive emissions to air]	Activity	1,33E-05	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to air]	Activity	1,09E+00	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to fresh water]	Activity	5,34E-01	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to sea water]	Activity	2,53E-02	Bq	(No statement)
Lead [Fresh water]	Mass	4,62E-06	kg	(No statement)
Lead [Heavy metals to agricultural soil]	Mass	3,02E-08	kg	(No statement)
Lead [Heavy metals to air]	Mass	5,03E-06	kg	(Literature)
Lead [Heavy metals to fresh water]	Mass	8,33E-06	kg	(Literature)
Lead [Heavy metals to industrial soil]	Mass	1,63E-06	kg	Measured
Lead [Heavy metals to sea water]	Mass	6,73E-08	kg	(No statement)
Linuron [Pesticides to agricultural soil]	Mass	2,01E-09	kg	(No statement)
Liquid hazardous waste [Hazardous waste]	Mass	9,07E-07	kg	(Estimated)
Liquid waste [Consumer waste]	Mass	7,25E+03	kg	(Calculated)
Magnesium [Fresh water]	Mass	3,38E-03	kg	(No statement)
Magnesium [Inorganic emissions to fresh water]	Mass	2,20E-04	kg	(Literature)
Magnesium [Inorganic emissions to sea water]	Mass	3,60E-05	kg	(No statement)
Magnesium chloride [Inorganic emissions to fresh water]	Mass	5,03E-10	kg	(No statement)
Mancozeb [Pesticides to agricultural soil]	Mass	8,03E-09	kg	(No statement)
Manganese (Mn54) [Radioactive emissions to air]	Activity	1,24E-06	Bq	(No statement)
Manganese (Mn54) [Radioactive emissions to fresh water]	Activity	6,81E-01	Bq	(Literature)
Manganese [Fresh water]	Mass	6,10E-05	kg	(No statement)
Manganese [Heavy metals to agricultural soil]	Mass	7,05E-06	kg	(No statement)
Manganese [Heavy metals to air]	Mass	1,51E-06	kg	(Calculated)

Appendix 2.3
LCI Data - Web based newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Manganese [Heavy metals to fresh water]	Mass	1,05E-05	kg	(Literature)
Manganese [Heavy metals to industrial soil]	Mass	4,57E-07	kg	(No statement)
Manganese [Heavy metals to sea water]	Mass	2,88E-07	kg	(No statement)
Medium and low radioactive liquid waste [Radioactive waste]	Mass	5,71E-08	kg	(Estimated)
Medium and low radioactive wastes [Radioactive waste]	Mass	6,58E-06	kg	(Literature)
Mercaptan (unspecified) [Group NMVOC to air]	Mass	1,44E-10	kg	(Literature)
Mercury [Fresh water]	Mass	1,96E-08	kg	(No statement)
Mercury [Heavy metals to agricultural soil]	Mass	1,66E-10	kg	(No statement)
Mercury [Heavy metals to air]	Mass	2,84E-07	kg	(Literature)
Mercury [Heavy metals to fresh water]	Mass	3,29E-08	kg	(Literature)
Mercury [Heavy metals to industrial soil]	Mass	9,19E-09	kg	Measured
Mercury [Heavy metals to sea water]	Mass	4,66E-10	kg	(No statement)
Metal ions (unspecific) [Fresh water]	Mass	2,26E-04	kg	(No statement)
Metal ions (unspecific) [Inorganic emissions to fresh water]	Mass	9,35E-06	kg	(Calculated)
Metaldehyde [Organic emissions to agricultural soil]	Mass	1,15E-11	kg	(No statement)
Metals (unspecified) [Inorganic emissions to fresh water]	Mass	4,54E-16	kg	Literature
Metals (unspecified) [Particles to air]	Mass	-1,01E-08	kg	(Estimated)
Metals (unspecified) [Particles to fresh water]	Mass	3,69E-07	kg	(Literature)
Methacrylate [Group NMVOC to air]	Mass	5,04E-08	kg	Calculated
Methane (biotic) [Air]	Mass	3,82E-05	kg	(No statement)
Methane [Organic emissions to air (group VOC)]	Mass	1,92E-02	kg	(Literature)
Methanol [Group NMVOC to air]	Mass	7,01E-06	kg	(Literature)
Methanol [Hydrocarbons to fresh water]	Mass	1,27E-05	kg	(Measured)
Methanol [Hydrocarbons to sea water]	Mass	4,29E-07	kg	(No statement)
Methanol [Organic intermediate products]	Mass	2,70E-10	kg	Literature
Methyl methacrylate (MMA) [Group NMVOC to air]	Mass	1,39E-06	kg	Calculated
Methyl tert-butylether [Group NMVOC to air]	Mass	1,27E-09	kg	(No statement)
Methyl tert-butylether [Hydrocarbons to fresh water]	Mass	1,97E-11	kg	(No statement)
Methyl tert-butylether [Hydrocarbons to sea water]	Mass	4,25E-08	kg	(No statement)
Metolachlor [Pesticides to agricultural soil]	Mass	1,45E-08	kg	(No statement)
Metribuzin [Pesticides to agricultural soil]	Mass	2,82E-10	kg	(No statement)
Mineral waste [Consumer waste]	Mass	2,42E-07	kg	(Estimated)
Molybdenum (Mo99) [Radioactive emissions to fresh water]	Activity	1,49E-04	Bq	(No statement)
Molybdenum [Fresh water]	Mass	7,82E-08	kg	(No statement)
Molybdenum [Heavy metals to agricultural soil]	Mass	1,74E-09	kg	(No statement)
Molybdenum [Heavy metals to air]	Mass	1,42E-07	kg	(Literature)
Molybdenum [Heavy metals to fresh water]	Mass	6,43E-06	kg	(Estimated)
Molybdenum [Heavy metals to sea water]	Mass	1,34E-09	kg	(No statement)
Monoethanolamine [Group NMVOC to air]	Mass	1,92E-08	kg	(No statement)
Municipal waste [Consumer waste]	Mass	2,19E-04	kg	(Calculated)
Napropamide [Pesticides to agricultural soil]	Mass	2,03E-11	kg	(No statement)
Neutral salts [Inorganic emissions to fresh water]	Mass	-1,84E-07	kg	Calculated
Nickel [Fresh water]	Mass	4,58E-05	kg	(No statement)
Nickel [Heavy metals to agricultural soil]	Mass	2,23E-08	kg	(No statement)
Nickel [Heavy metals to air]	Mass	6,47E-06	kg	(Literature)
Nickel [Heavy metals to fresh water]	Mass	1,26E-06	kg	(Literature)
Nickel [Heavy metals to industrial soil]	Mass	1,93E-09	kg	(No statement)
Nickel [Heavy metals to sea water]	Mass	4,99E-09	kg	(No statement)
Niobium (Nb95) [Radioactive emissions to air]	Activity	5,83E-03	Bq	(No statement)
Nitrate [Fresh water]	Mass	2,09E-05	kg	(No statement)

Appendix 2.3
LCI Data - Web based newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Nitrate [Inorganic emissions to air]	Mass	1,12E-08	kg	(No statement)
Nitrate [Inorganic emissions to fresh water]	Mass	1,99E-04	kg	(Literature)
Nitrate [Inorganic emissions to sea water]	Mass	3,07E-05	kg	(No statement)
Nitrite [Fresh water]	Mass	3,66E-08	kg	(No statement)
Nitrite [Inorganic emissions to fresh water]	Mass	1,55E-06	kg	(No statement)
Nitrite [Inorganic emissions to sea water]	Mass	6,14E-07	kg	(No statement)
Nitrogen [Inorganic emissions to fresh water]	Mass	7,97E-05	kg	(Estimated)
Nitrogen [Inorganic emissions to sea water]	Mass	1,06E-07	kg	(No statement)
Nitrogen organic bounded [Fresh water]	Mass	1,10E-06	kg	(No statement)
Nitrogen organic bounded [Inorganic emissions to fresh water]	Mass	2,92E-06	kg	Literature
Nitrogen organic bounded [Inorganic emissions to sea water]	Mass	2,30E-06	kg	(No statement)
Nitrogen oxides [Inorganic emissions to air]	Mass	2,24E-02	kg	(Literature)
Nitrous oxide (laughing gas) [Inorganic emissions to air]	Mass	3,88E-04	kg	(Literature)
NMVOC (unspecified) [Group NMVOC to air]	Mass	2,30E-03	kg	(Literature)
non used primary energy from water power [Other emissions to fresh water]	Energy ren.	3,58E-01	MJ	(Calculated)
non used primary energy from wind power [Other emissions to air]	Energy ren.	2,09E-02	MJ	(Measured)
Oil (unspecified) [Hydrocarbons to fresh water]	Mass	1,14E-03	kg	(Literature)
Oil (unspecified) [Hydrocarbons to sea water]	Mass	3,07E-04	kg	(No statement)
Oil (unspecified) [Organic emissions to agricultural soil]	Mass	1,40E-03	kg	(No statement)
Oil (unspecified) [Organic emissions to industrial soil]	Mass	6,71E-06	kg	Measured
Orbencarb [Pesticides to agricultural soil]	Mass	1,52E-09	kg	(No statement)
Organic chlorine compounds (unspecified) [Organic emissions to fresh water]	Mass	1,44E-10	kg	(Literature)
Organic chlorine compounds [Organic emissions to air (group VOC)]	Mass	1,44E-10	kg	(Literature)
Organic compounds (dissolved) [Organic emissions to fresh water]	Mass	4,09E-08	kg	Calculated
Organic compounds (unspecified) [Organic emissions to fresh water]	Mass	3,61E-15	kg	Literature
Organic waste [Consumer waste]	Mass	1,10E-09	kg	Literature
Overburden [Stockpile goods] *Not followed to the grave*	Mass	1,19E+00	kg	(Calculated)
Ozone [Inorganic emissions to air]	Mass	8,26E-05	kg	(No statement)
Pentachlorobenzene [Halogenated organic emissions to air]	Mass	1,13E-10	kg	(No statement)
Pentachlorophenol (PCP) [Halogenated organic emissions to air]	Mass	8,55E-08	kg	(No statement)
Pentane (n-pentane) [Group NMVOC to air]	Mass	7,10E-05	kg	(Literature)
Personal computer [Flows]	Number of pieces	4,39E-17	pcs.	(No statement)
Phenol (hydroxy benzene) [Group NMVOC to air]	Mass	4,08E-08	kg	Literature
Phenol (hydroxy benzene) [Hydrocarbons to fresh water]	Mass	1,68E-06	kg	(Estimated)
Phenol (hydroxy benzene) [Hydrocarbons to sea water]	Mass	8,35E-07	kg	(No statement)
Phosphate [Fresh water]	Mass	1,08E-04	kg	(No statement)
Phosphate [Inorganic emissions to fresh water]	Mass	8,79E-06	kg	(Literature)
Phosphate [Inorganic emissions to sea water]	Mass	4,28E-07	kg	(No statement)
Phosphorus [Inorganic emissions to agricultural soil]	Mass	3,44E-06	kg	(No statement)
Phosphorus [Inorganic emissions to air]	Mass	8,31E-07	kg	(No statement)
Phosphorus [Inorganic emissions to fresh water]	Mass	3,08E-07	kg	(No statement)
Phosphorus [Inorganic emissions to industrial soil]	Mass	5,71E-07	kg	(No statement)
Phosphorus [Inorganic emissions to sea water]	Mass	6,36E-08	kg	(No statement)
Pirimicarb [Pesticides to agricultural soil]	Mass	1,25E-11	kg	(No statement)

Appendix 2.3
LCI Data - Web based newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Plastic (unspecified) [Waste for recovery]	Mass	6,22E-05	kg	(Literature)
Platinum [Heavy metals to air]	Mass	8,97E-14	kg	(No statement)
Plutonium (Pu alpha) [Radioactive emissions to air]	Activity	2,61E-04	Bq	(Estimated)
Plutonium (Pu alpha) [Radioactive emissions to fresh water]	Activity	8,27E-02	Bq	(Estimated)
Plutonium (Pu238) [Radioactive emissions to air]	Activity	3,32E-08	Bq	(No statement)
Plutonium as residual product [Radioactive waste]	Mass	1,13E-08	kg	(Calculated)
Polonium (Po210) [Radioactive emissions to air]	Activity	1,90E+00	Bq	(No statement)
Polonium (Po210) [Radioactive emissions to fresh water]	Activity	5,34E-01	Bq	(No statement)
Polonium (Po210) [Radioactive emissions to sea water]	Activity	3,87E-02	Bq	(No statement)
Polychlorinated biphenyls (PCB unspecified) [Halogenated organic emissions to air]	Mass	2,59E-10	kg	(No statement)
Polychlorinated dibenzo-p-dioxins (2,3,7,8 - TCDD) [Halogenated organic emissions to air]	Mass	4,03E-12	kg	(Literature)
Polychlorinated dibenzo-p-dioxins (2,3,7,8 - TCDD) [Halogenated organic emissions to fresh water]	Mass	6,07E-21	kg	Estimated
Polycyclic aromatic hydrocarbons (PAH) [Group PAH to air]	Mass	5,56E-07	kg	(Literature)
Polycyclic aromatic hydrocarbons (PAH, unspec.) [Hydrocarbons to fresh water]	Mass	6,24E-07	kg	(Literature)
Polycyclic aromatic hydrocarbons (PAH, unspec.) [Hydrocarbons to sea water]	Mass	5,18E-08	kg	(No statement)
Populated PWB Iliad Module (E-Paper) [Flows]	Mass	2,40E-06	kg	(No statement)
Potassium (K40) [Radioactive emissions to air]	Activity	2,31E-01	Bq	(No statement)
Potassium (K40) [Radioactive emissions to fresh water]	Activity	6,70E-01	Bq	(No statement)
Potassium (K40) [Radioactive emissions to sea water]	Activity	3,06E-03	Bq	(No statement)
Potassium [Fresh water]	Mass	6,01E-04	kg	(No statement)
Potassium [Inorganic emissions to fresh water]	Mass	5,31E-04	kg	(Literature)
Potassium [Inorganic emissions to sea water]	Mass	2,77E-05	kg	(No statement)
Propane [Group NMVOC to air]	Mass	1,43E-04	kg	(Literature)
Propanol (iso-propanol; isopropanol) [Group NMVOC to air]	Mass	2,85E-05	kg	Estimated
Propene (propylene) [Group NMVOC to air]	Mass	2,87E-06	kg	(Calculated)
Propene [Hydrocarbons to fresh water]	Mass	7,17E-08	kg	(No statement)
Propionaldehyde [Group NMVOC to air]	Mass	5,00E-11	kg	(No statement)
Propionic acid (propane acid) [Group NMVOC to air]	Mass	4,42E-07	kg	(Literature)
Propylene oxide [Group NMVOC to air]	Mass	3,04E-09	kg	(No statement)
Propylene oxide [Hydrocarbons to fresh water]	Mass	7,32E-09	kg	(No statement)
Protactinium (Pa234m) [Radioactive emissions to air]	Activity	3,32E-02	Bq	(No statement)
Protactinium (Pa234m) [Radioactive emissions to fresh water]	Activity	6,15E-01	Bq	(No statement)
R 11 (trichlorofluoromethane) [Halogenated organic emissions to air]	Mass	1,20E-07	kg	(Estimated)
R 113 (trichlorofluoroethane) [Halogenated organic emissions to air]	Mass	0,00E+00	kg	(No statement)
R 114 (dichlorotetrafluoroethane) [Halogenated organic emissions to air]	Mass	1,80E-07	kg	(Estimated)
R 116 (hexafluoroethane) [Halogenated organic emissions to air]	Mass	5,35E-08	kg	Calculated
R 12 (dichlorodifluoromethane) [Halogenated organic emissions to air]	Mass	2,59E-08	kg	(Estimated)
R 124 (chlorotetrafluoroethane) [Halogenated organic emissions to air]	Mass	0,00E+00	kg	(No statement)
R 13 (chlorotrifluoromethane) [Halogenated organic emissions to air]	Mass	1,62E-08	kg	(Estimated)
R 134a (tetrafluoroethane) [Halogenated organic	Mass	5,67E-08	kg	(No statement)

Appendix 2.3
LCI Data - Web based newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
emissions to air]				
R 21 (Dichlorofluoromethane) [Halogenated organic emissions to air]	Mass	3,62E-15	kg	(No statement)
R 22 (chlorodifluoromethane) [Halogenated organic emissions to air]	Mass	2,00E-07	kg	(Estimated)
R 23 (trifluoromethane) [Halogenated organic emissions to air]	Mass	1,15E-12	kg	(No statement)
Radioactive emissions (general) [Radioactive emissions to air]	Activity	5,96E-02	Bq	Literature
Radioactive isotopes (unspecific) [Radioactive emissions to air]	Activity	5,01E-01	Bq	(No statement)
Radioactive isotopes (unspecific) [Radioactive emissions to fresh water]	Activity	2,37E+02	Bq	(No statement)
Radioactive tailings [Radioactive waste]	Mass	6,65E-04	kg	(Calculated)
Radium (Ra224) [Radioactive emissions to fresh water]	Activity	6,52E-01	Bq	(No statement)
Radium (Ra224) [Radioactive emissions to sea water]	Activity	3,27E-01	Bq	(No statement)
Radium (Ra226) [Radioactive emissions to air]	Activity	1,35E+00	Bq	(No statement)
Radium (Ra226) [Radioactive emissions to fresh water]	Activity	7,05E+02	Bq	(Literature)
Radium (Ra226) [Radioactive emissions to sea water]	Activity	5,51E-01	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to air]	Activity	9,28E-02	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to fresh water]	Activity	1,30E+00	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to sea water]	Activity	6,53E-01	Bq	(No statement)
Radon (Rn220) [Radioactive emissions to air]	Activity	1,50E-04	Bq	(No statement)
Radon (Rn222) [Air]	Activity	4,30E+06	Bq	(No statement)
Radon (Rn222) [Radioactive emissions to air]	Activity	1,13E+05	Bq	(Literature)
Red mud (wet) (3% NaOH) [Hazardous waste for disposal]	Mass	7,59E-04	kg	Measured
Residues for incineration [Waste for disposal]	Mass	9,79E-07	kg	(No statement)
Rolling tinder [Waste for recovery]	Mass	5,04E-04	kg	Calculated
Rubidium [Inorganic emissions to fresh water]	Mass	2,20E-07	kg	(No statement)
Ruthenium (Ru103) [Radioactive emissions to air]	Activity	3,24E-08	Bq	(No statement)
Ruthenium (Ru103) [Radioactive emissions to fresh water]	Activity	3,14E-05	Bq	(No statement)
Ruthenium (Ru106) [Radioactive emissions to fresh water]	Activity	1,92E-02	Bq	Calculated
Scandium [Fresh water]	Mass	1,15E-06	kg	(No statement)
Scandium [Inorganic emissions to air]	Mass	6,54E-10	kg	(Estimated)
Scandium [Inorganic emissions to fresh water]	Mass	2,76E-07	kg	(No statement)
Selenium [Fresh water]	Mass	8,09E-07	kg	(No statement)
Selenium [Heavy metals to air]	Mass	1,19E-06	kg	(Literature)
Selenium [Heavy metals to fresh water]	Mass	8,06E-07	kg	(Literature)
Selenium [Heavy metals to sea water]	Mass	2,01E-09	kg	(No statement)
Sewage sludge (waste water processing) [Hazardous waste]	Mass	2,18E-04	kg	Calculated
Silicium tetrafluoride [Inorganic emissions to air]	Mass	6,69E-11	kg	(No statement)
Silicon dioxide (silica) [Particles to air]	Mass	0,00E+00	kg	Estimated
Silicon dioxide (silica) [Particles to fresh water]	Mass	0,00E+00	kg	Estimated
Silver (Ag110m) [Radioactive emissions to air]	Activity	3,21E-07	Bq	(No statement)
Silver (Ag110m) [Radioactive emissions to fresh water]	Activity	3,46E-01	Bq	(Literature)
Silver [Fresh water]	Mass	7,16E-10	kg	(No statement)
Silver [Heavy metals to agricultural soil]	Mass	1,72E-11	kg	(No statement)
Silver [Heavy metals to air]	Mass	3,56E-12	kg	(No statement)
Silver [Heavy metals to fresh water]	Mass	1,58E-08	kg	(Literature)
Silver [Heavy metals to sea water]	Mass	3,92E-09	kg	(No statement)
Slag (Iron plate production) [Waste for recovery]	Mass	5,09E-03	kg	(Measured)

Appendix 2.3
LCI Data - Web based newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Slag (Mo-containing) [Waste for recovery]	Mass	2,82E-08	kg	Estimated
Slag [Hazardous waste]	Mass	5,13E-04	kg	(Literature)
Slag [Waste for recovery]	Mass	9,19E-04	kg	(Literature)
Sludge [Hazardous waste]	Mass	3,39E-03	kg	(Calculated)
Sludge from water works (6% dry matter-content) [Waste for disposal]	Mass	1,43E-08	kg	(No statement)
Sodium (Na24) [Radioactive emissions to fresh water]	Activity	1,13E-03	Bq	(No statement)
Sodium [Fresh water]	Mass	4,98E-04	kg	(No statement)
Sodium [Inorganic emissions to fresh water]	Mass	1,79E-02	kg	(Literature)
Sodium [Inorganic emissions to sea water]	Mass	2,00E-03	kg	(No statement)
Sodium chlorate [high population density]	Mass	3,70E-09	kg	(No statement)
Sodium chloride (rock salt) [Inorganic intermediate products]	Mass	1,84E-05	kg	Calculated
Sodium dichromate [high population density]	Mass	2,32E-08	kg	(No statement)
Sodium formate [high population density]	Mass	4,08E-11	kg	(No statement)
Sodium formate [Hydrocarbons to fresh water]	Mass	9,79E-11	kg	(No statement)
Sodium hypochlorite [Inorganic emissions to fresh water]	Mass	5,12E-08	kg	(Estimated)
Solder paste waste [Hazardous waste for recovery]	Mass	2,33E-05	kg	Estimated
Solids (dissolved) [Analytical measures to fresh water]	Mass	8,53E-03	kg	(Literature)
Solids (suspended) [Fresh water]	Mass	4,27E-02	kg	(No statement)
Solids (suspended) [Particles to fresh water]	Mass	1,90E-03	kg	(Estimated)
Solids (suspended) [Particles to sea water]	Mass	9,27E-04	kg	(No statement)
Spoil [Stockpile goods] *Not followed to the grave*	Mass	1,68E-10	kg	Calculated
Steam [Inorganic emissions to air]	Mass	2,17E+00	kg	(Estimated)
Steel works slag [Waste for recovery]	Mass	2,63E-03	kg	Calculated
Strontium (Sr89) [Radioactive emissions to fresh water]	Activity	6,72E-03	Bq	(No statement)
Strontium (Sr90) [Radioactive emissions to fresh water]	Activity	3,38E+02	Bq	(Literature)
Strontium (Sr90) [Radioactive emissions to sea water]	Activity	5,04E+00	Bq	(No statement)
Strontium [Fresh water]	Mass	9,15E-05	kg	(No statement)
Strontium [Heavy metals to agricultural soil]	Mass	6,21E-10	kg	(No statement)
Strontium [Heavy metals to fresh water]	Mass	8,78E-05	kg	(Literature)
Strontium [Heavy metals to industrial soil]	Mass	1,14E-07	kg	(No statement)
Strontium [Heavy metals to sea water]	Mass	3,93E-05	kg	(No statement)
Strontium [Inorganic emissions to air]	Mass	8,81E-07	kg	(Estimated)
Styrene [Group NMVOC to air]	Mass	1,09E-09	kg	(No statement)
Sulphate [Fresh water]	Mass	1,96E-02	kg	(No statement)
Sulphate [Inorganic emissions to fresh water]	Mass	2,38E-02	kg	(Literature)
Sulphate [Inorganic emissions to sea water]	Mass	6,47E-05	kg	(No statement)
Sulphide [Inorganic emissions to fresh water]	Mass	5,17E-07	kg	(Literature)
Sulphide [Inorganic emissions to sea water]	Mass	6,35E-08	kg	(No statement)
Sulphite [Inorganic emissions to fresh water]	Mass	1,79E-05	kg	(Literature)
Sulphur [Inorganic emissions to agricultural soil]	Mass	4,66E-06	kg	(No statement)
Sulphur [Inorganic emissions to fresh water]	Mass	3,58E-06	kg	(No statement)
Sulphur [Inorganic emissions to industrial soil]	Mass	6,85E-06	kg	(No statement)
Sulphur [Inorganic emissions to sea water]	Mass	3,50E-07	kg	(No statement)
Sulphur dioxide [Inorganic emissions to air]	Mass	4,96E-02	kg	(Literature)
Sulphur hexafluoride [Inorganic emissions to air]	Mass	1,58E-06	kg	(Literature)
Sulphuric acid [Inorganic emissions to air]	Mass	8,43E-08	kg	(Calculated)
Tailings [Stockpile goods] *Not followed to the grave*	Mass	3,42E-01	kg	(Literature)
Tebutam [Pesticides to agricultural soil]	Mass	4,81E-11	kg	(No statement)
Technetium (Tc99m) [Radioactive emissions to fresh water]	Activity	3,46E-03	Bq	(No statement)
Teflubenzuron [Pesticides to agricultural soil]	Mass	1,88E-11	kg	(No statement)

Appendix 2.3
LCI Data - Web based newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Tellurium (Te123m) [Radioactive emissions to fresh water]	Activity	7,33E-03	Bq	(No statement)
Tellurium (Te132) [Radioactive emissions to fresh water]	Activity	8,63E-06	Bq	(No statement)
Tetrafluoromethane [Halogenated organic emissions to air]	Mass	5,04E-07	kg	Measured
Thallium [Fresh water]	Mass	8,84E-08	kg	(No statement)
Thallium [Heavy metals to air]	Mass	3,24E-09	kg	(Calculated)
Thallium [Heavy metals to fresh water]	Mass	3,48E-08	kg	(Measured)
Thorium (Th228) [Radioactive emissions to air]	Activity	4,56E-02	Bq	(No statement)
Thorium (Th228) [Radioactive emissions to fresh water]	Activity	2,61E+00	Bq	(No statement)
Thorium (Th228) [Radioactive emissions to sea water]	Activity	1,31E+00	Bq	(No statement)
Thorium (Th230) [Radioactive emissions to air]	Activity	3,33E+01	Bq	(No statement)
Thorium (Th230) [Radioactive emissions to fresh water]	Activity	8,38E+01	Bq	(No statement)
Thorium (Th232) [Radioactive emissions to air]	Activity	7,09E-02	Bq	(No statement)
Thorium (Th232) [Radioactive emissions to fresh water]	Activity	1,25E-01	Bq	(No statement)
Thorium (Th234) [Radioactive emissions to air]	Activity	3,32E-02	Bq	(No statement)
Thorium (Th234) [Radioactive emissions to fresh water]	Activity	6,15E-01	Bq	(No statement)
Tin [Fresh water]	Mass	7,62E-06	kg	(No statement)
Tin [Heavy metals to agricultural soil]	Mass	1,83E-09	kg	(No statement)
Tin [Heavy metals to air]	Mass	2,58E-07	kg	(Calculated)
Tin [Heavy metals to fresh water]	Mass	4,08E-08	kg	(Literature)
Titanium [Heavy metals to agricultural soil]	Mass	4,85E-07	kg	(No statement)
Titanium [Heavy metals to air]	Mass	2,86E-07	kg	(Estimated)
Titanium [Heavy metals to fresh water]	Mass	1,19E-06	kg	(Literature)
Titanium [Heavy metals to sea water]	Mass	1,16E-09	kg	(No statement)
Toluene (methyl benzene) [Group NMVOC to air]	Mass	1,55E-05	kg	(Literature)
Toluene (methyl benzene) [Hydrocarbons to fresh water]	Mass	1,93E-06	kg	(Literature)
Toluene (methyl benzene) [Hydrocarbons to sea water]	Mass	9,29E-07	kg	(No statement)
Top Cover (E-Paper) [Flows]	Mass	1,29E-01	kg	(No statement)
Total dissolved organic bounded carbon [Analytical measures to fresh water]	Mass	1,21E-03	kg	(Estimated)
Total dissolved organic bounded carbon [Analytical measures to sea water]	Mass	3,11E-04	kg	(No statement)
Total organic bounded carbon [Analytical measures to fresh water]	Mass	1,74E-03	kg	(Measured)
Total organic bounded carbon [Analytical measures to sea water]	Mass	3,11E-04	kg	(No statement)
Total organic carbon, TOC (Ecoinvent) [Fresh water]	Mass	5,14E-04	kg	(No statement)
Treatment residue (mineral) [Stockpile goods]	Mass	6,83E-04	kg	(Calculated)
Tributyltinoxide [Pesticides to sea water]	Mass	1,18E-07	kg	(No statement)
Trichloromethane (chloroform) [Halogenated organic emissions to air]	Mass	2,53E-09	kg	(No statement)
Trichloromethane (chloroform) [Halogenated organic emissions to fresh water]	Mass	3,62E-15	kg	(No statement)
Triethylene glycol [Hydrocarbons to sea water]	Mass	3,48E-07	kg	(No statement)
Tungsten [Fresh water]	Mass	9,30E-07	kg	(No statement)
Tungsten [Heavy metals to fresh water]	Mass	5,71E-07	kg	(No statement)
Uranium (total) [Radioactive emissions to air]	Activity	1,85E+00	Bq	(Literature)
Uranium (U234) [Radioactive emissions to air]	Activity	4,33E-01	Bq	(Literature)
Uranium (U234) [Radioactive emissions to fresh water]	Activity	7,37E-01	Bq	(No statement)
Uranium (U235) [Radioactive emissions to air]	Activity	2,10E-02	Bq	(Literature)
Uranium (U235) [Radioactive emissions to fresh water]	Activity	1,22E+00	Bq	(No statement)
Uranium (U238) [Radioactive emissions to air]	Activity	9,37E-01	Bq	(Literature)
Uranium (U238) [Radioactive emissions to fresh water]	Activity	2,12E+00	Bq	(No statement)

Appendix 2.3
LCI Data - Web based newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Uranium (U238) [Radioactive emissions to sea water]	Activity	1,30E-02	Bq	(No statement)
Uranium [Radioactive emissions to fresh water]	Activity	4,13E+01	Bq	(Literature)
Uranium depleted [Radioactive waste]	Mass	1,31E-05	kg	(Calculated)
Uranium spent as residue [Radioactive waste]	Mass	5,75E-10	kg	(Calculated)
Used air [Other emissions to air]	Mass	7,59E-01	kg	(Measured)
Used oil [Hazardous waste for recovery]	Mass	1,18E-12	kg	(Literature)
Vanadium [Fresh water]	Mass	1,64E-05	kg	(No statement)
Vanadium [Heavy metals to agricultural soil]	Mass	1,39E-08	kg	(No statement)
Vanadium [Heavy metals to air]	Mass	1,29E-05	kg	(Literature)
Vanadium [Heavy metals to fresh water]	Mass	1,81E-06	kg	(Literature)
Vanadium [Heavy metals to sea water]	Mass	4,01E-09	kg	(No statement)
Waste (unspecified) [Consumer waste]	Mass	1,24E-03	kg	(Calculated)
Waste heat [Fresh water]	Energy	1,29E-02	MJ	(No statement)
Waste heat [Other emissions to air]	Energy	1,26E+02	MJ	(Measured)
Waste heat [Other emissions to fresh water]	Energy	6,87E+00	MJ	(Measured)
Waste paper [Waste for recovery]	Mass	1,14E-06	kg	Measured
Waste radioactive [Radioactive waste]	Mass	1,10E-05	kg	(Literature)
Waste water [Other emissions to fresh water]	Mass	4,30E+03	kg	(Literature)
Waste water processing residue [Hazardous waste for recovery]	Mass	3,75E-02	kg	Literature
Wave solder dross [Hazardous waste for recovery]	Mass	9,10E-05	kg	Estimated
Vinyl chloride (VCM; chloroethene) [Halogenated organic emissions to air]	Mass	1,13E-07	kg	Calculated
Vinyl chloride (VCM; chloroethene) [Halogenated organic emissions to fresh water]	Mass	4,98E-10	kg	(No statement)
VOC (unspecified) [Organic emissions to air (group VOC)]	Mass	1,06E-04	kg	(Literature)
VOC [Organic emissions to fresh water]	Mass	6,11E-06	kg	(No statement)
VOC [Organic emissions to sea water]	Mass	2,29E-06	kg	(No statement)
Volatile fission products (inert gases;iodine;C14) [Radioactive waste]	Mass	4,22E-10	kg	(Estimated)
Xenon (Xe131m) [Radioactive emissions to air]	Activity	8,44E+00	Bq	(Literature)
Xenon (Xe133) [Radioactive emissions to air]	Activity	3,69E+02	Bq	(Literature)
Xenon (Xe133m) [Radioactive emissions to air]	Activity	2,38E+00	Bq	(Literature)
Xenon (Xe135) [Radioactive emissions to air]	Activity	1,45E+02	Bq	(Literature)
Xenon (Xe135m) [Radioactive emissions to air]	Activity	6,75E+01	Bq	(Literature)
Xenon (Xe137) [Radioactive emissions to air]	Activity	9,94E-01	Bq	(Literature)
Xenon (Xe138) [Radioactive emissions to air]	Activity	1,15E+01	Bq	(Literature)
Xylene (dimethyl benzene) [Group NMVOC to air]	Mass	1,00E-04	kg	(Calculated)
Xylene (isomers; dimethyl benzene) [Hydrocarbons to fresh water]	Mass	4,65E-06	kg	(Literature)
Xylene (isomers; dimethyl benzene) [Hydrocarbons to sea water]	Mass	7,74E-07	kg	(No statement)
Xylene (meta-Xylene; 1,3-Dimethylbenzene) [Group NMVOC to air]	Mass	3,16E-07	kg	(No statement)
Zinc (Zn65) [Radioactive emissions to air]	Activity	6,20E-06	Bq	(No statement)
Zinc (Zn65) [Radioactive emissions to fresh water]	Activity	1,53E-02	Bq	(No statement)
Zinc [Fresh water]	Mass	2,02E-05	kg	(No statement)
Zinc [Heavy metals to agricultural soil]	Mass	1,50E-06	kg	(No statement)
Zinc [Heavy metals to air]	Mass	1,00E-05	kg	(Literature)
Zinc [Heavy metals to fresh water]	Mass	6,73E-06	kg	(Literature)
Zinc [Heavy metals to industrial soil]	Mass	2,56E-06	kg	Measured
Zinc [Heavy metals to sea water]	Mass	1,30E-05	kg	(No statement)
Zinc sulphate [Inorganic emissions to air]	Mass	1,20E-08	kg	Measured

Appendix 2.3
LCI Data - Web based newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Zirconium (Zr) [Air]	Mass	5,68E-11	kg	(No statement)
Zirconium (Zr95) [Radioactive emissions to air]	Activity	6,06E-06	Bq	(No statement)
Zirconium (Zr95) [Radioactive emissions to fresh water]	Activity	1,77E-04	Bq	(No statement)

Appendix 2.4 LCI Data - Web based newspaper, Swedish scenario

In the tables below the LCI data for the studied system "Web based newspaper, Swedish scenario" are presented. The data are divided as inputs to the system and outputs from the system.

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Air [Operating materials]	Mass	3,59E-17	kg	Estimated
Air [Renewable resources]	Mass	1,23E+01	kg	(Calculated)
Aluminum [Non renewable elements]	Mass	1,56E-03	kg	(No statement)
Antimonite [Non renewable resources]	Mass	2,11E-11	kg	(No statement)
Barium sulphate [Non renewable resources]	Mass	6,94E-04	kg	(No statement)
Basalt [Non renewable resources]	Mass	1,17E-04	kg	(No statement)
Bauxite [Non renewable resources]	Mass	1,06E-02	kg	Calculated
Bentonite [Non renewable resources]	Mass	6,15E-04	kg	(Literature)
Borax [Non renewable resources]	Mass	5,29E-08	kg	(No statement)
Calcium chloride [Non renewable resources]	Mass	7,85E-12	kg	Literature
Carbon dioxide [Renewable resources]	Mass	1,48E+00	kg	Calculated
Catalyst [Operating materials]	Mass	3,29E-07	kg	Calculated
Chromium [Non renewable elements]	Mass	3,03E-04	kg	(No statement)
Chrysotile [Non renewable resources]	Mass	2,27E-08	kg	(No statement)
Cinnabar [Non renewable resources]	Mass	2,47E-09	kg	(No statement)
Circuit material (Fe carrier) [Metals]	Mass	3,81E-09	kg	Calculated
Clay [Non renewable resources]	Mass	1,71E-02	kg	(No statement)
Cobalt [Non renewable elements]	Mass	5,07E-10	kg	(No statement)
Colemanite ore [Non renewable resources]	Mass	1,92E-04	kg	Calculated
Cooling water [Operating materials]	Mass	5,80E+00	kg	(Measured)
Copper [Non renewable elements]	Mass	9,22E-04	kg	(No statement)
Copper ore (0.14%) [Non renewable resources]	Mass	2,57E+00	kg	Measured
Copper ore (0.3%) [Non renewable resources]	Mass	1,04E-08	kg	Estimated
Crude oil [Crude oil (resource)]	Mass	1,06E-01	kg	(Literature)
Crude oil Algeria [Crude oil (resource)]	Mass	3,21E-03	kg	(Literature)
Crude oil Angola [Crude oil (resource)]	Mass	1,24E-03	kg	(Estimated)
Crude oil Argentina [Crude oil (resource)]	Mass	7,54E-06	kg	Literature
Crude oil Australia [Crude oil (resource)]	Mass	2,89E-04	kg	(Estimated)
Crude oil Brazil [Crude oil (resource)]	Mass	1,63E-04	kg	Literature
Crude oil Cameroon [Crude oil (resource)]	Mass	5,04E-04	kg	(Estimated)
Crude oil Canada [Crude oil (resource)]	Mass	4,28E-03	kg	(Literature)
Crude oil Central Africa [Crude oil (resource)]	Mass	4,36E-05	kg	(Calculated)
Crude oil Central America [Crude oil (resource)]	Mass	2,67E-05	kg	(Calculated)
Crude oil China [Crude oil (resource)]	Mass	2,19E-02	kg	(Calculated)
Crude oil CIS [Crude oil (resource)]	Mass	1,36E-02	kg	(Literature)
Crude oil Colombia [Crude oil (resource)]	Mass	1,66E-06	kg	(Literature)
Crude oil Denmark [Crude oil (resource)]	Mass	5,00E-05	kg	(Literature)
Crude oil Egypt [Crude oil (resource)]	Mass	1,43E-03	kg	(Estimated)
Crude oil France [Crude oil (resource)]	Mass	4,02E-05	kg	(Literature)
Crude oil free wellhead [Crude oil (resource)]	Mass	-5,55E-06	kg	Literature
Crude oil Gabon [Crude oil (resource)]	Mass	6,73E-05	kg	(Estimated)
Crude oil Germany [Crude oil (resource)]	Mass	1,37E-03	kg	(Literature)
Crude oil Indonesia [Crude oil (resource)]	Mass	8,25E-05	kg	(Estimated)

Appendix 2.4
LCI Data - Web based newspaper, Swedish scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Crude oil Iran [Crude oil (resource)]	Mass	6,52E-03	kg	(Estimated)
Crude oil Italy [Crude oil (resource)]	Mass	1,47E-03	kg	(Literature)
Crude oil Kuwait [Crude oil (resource)]	Mass	6,07E-04	kg	(Estimated)
Crude oil Libya [Crude oil (resource)]	Mass	1,29E-02	kg	(Literature)
Crude oil Mexico [Crude oil (resource)]	Mass	4,73E-04	kg	(Literature)
Crude oil Middle East [Crude oil (resource)]	Mass	1,15E-04	kg	(Calculated)
Crude oil Netherlands [Crude oil (resource)]	Mass	1,36E-04	kg	(Literature)
Crude oil New Zealand [Crude oil (resource)]	Mass	1,01E-05	kg	(Estimated)
Crude oil Nigeria [Crude oil (resource)]	Mass	3,31E-03	kg	(Estimated)
Crude oil North Africa [Crude oil (resource)]	Mass	8,32E-05	kg	(Calculated)
Crude oil Norway [Crude oil (resource)]	Mass	1,11E-02	kg	(Literature)
Crude oil Oman [Crude oil (resource)]	Mass	1,16E-03	kg	(Estimated)
Crude oil Qatar [Crude oil (resource)]	Mass	3,35E-05	kg	(Estimated)
Crude oil Saudi Arabia [Crude oil (resource)]	Mass	9,69E-03	kg	(Estimated)
Crude oil Tunisia [Crude oil (resource)]	Mass	6,67E-05	kg	(Literature)
Crude oil United Arab Emirates [Crude oil (resource)]	Mass	4,30E-05	kg	(Estimated)
Crude oil United Kingdom [Crude oil (resource)]	Mass	1,07E-02	kg	(Literature)
Crude oil USA [Crude oil (resource)]	Mass	4,68E-05	kg	(Literature)
Crude oil Venezuela [Crude oil (resource)]	Mass	2,85E-03	kg	(Literature)
Diatomite [Non renewable resources]	Mass	2,03E-10	kg	(No statement)
Dolomite [Non renewable resources]	Mass	7,51E-05	kg	(Literature)
Energy, calorific value, in organic substance [biotic]	Energy ren.	1,64E+01	MJ	(No statement)
Feldspar (aluminum silicates) [Non renewable resources]	Mass	2,57E-11	kg	(No statement)
Fluorine [Non renewable elements]	Mass	1,44E-06	kg	(No statement)
Fluorspar (calcium fluoride; fluorite) [Non renewable resources]	Mass	1,98E-04	kg	Calculated
Granite [Non renewable resources]	Mass	1,34E-07	kg	(No statement)
Gypsum (natural gypsum) [Non renewable resources]	Mass	1,45E-07	kg	(No statement)
Hard coal [Hard coal (resource)]	Mass	7,14E-01	kg	(Literature)
Hard coal Australia [Hard coal (resource)]	Mass	5,71E-03	kg	(Calculated)
Hard coal Belgium [Hard coal (resource)]	Mass	3,89E-04	kg	(Calculated)
Hard coal Brazil [Hard coal (resource)]	Mass	3,59E-05	kg	Estimated
Hard coal Canada [Hard coal (resource)]	Mass	2,31E-03	kg	(Calculated)
Hard coal China [Hard coal (resource)]	Mass	4,06E-01	kg	(Calculated)
Hard coal CIS [Hard coal (resource)]	Mass	2,49E-03	kg	(Calculated)
Hard coal Colombia [Hard coal (resource)]	Mass	5,07E-03	kg	(Measured)
Hard coal Czech Republic [Hard coal (resource)]	Mass	2,70E-03	kg	(Measured)
Hard coal France [Hard coal (resource)]	Mass	4,73E-03	kg	(Calculated)
Hard coal Germany [Hard coal (resource)]	Mass	7,85E-02	kg	(Calculated)
Hard coal Indonesia [Hard coal (resource)]	Mass	2,12E-03	kg	(Measured)
Hard coal Japan [Hard coal (resource)]	Mass	3,77E-06	kg	(Calculated)
Hard coal Poland [Hard coal (resource)]	Mass	1,03E-02	kg	(Calculated)
Hard coal Portugal [Hard coal (resource)]	Mass	7,04E-05	kg	Estimated
Hard coal South Africa [Hard coal (resource)]	Mass	4,66E-02	kg	(Measured)
Hard coal Spain [Hard coal (resource)]	Mass	9,34E-03	kg	(Calculated)
Hard coal United Kingdom [Hard coal (resource)]	Mass	1,22E-03	kg	(Calculated)
Hard coal USA [Hard coal (resource)]	Mass	2,40E-02	kg	(Calculated)
Hard coal Venezuela [Hard coal (resource)]	Mass	5,25E-03	kg	(Measured)
Heavy spar (barytes) [Non renewable resources]	Mass	1,27E-03	kg	(Literature)
Inert rock [Non renewable resources]	Mass	3,42E+00	kg	(Literature)
Infrastructure telecommunication [Flows] *Not followed to the cradle*	Number of pieces	1,06E-01	pcs.	Estimated

Appendix 2.4
LCI Data - Web based newspaper, Swedish scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Iron [Non renewable elements]	Mass	1,23E-02	kg	(Estimated)
Iron ore (65%) [Non renewable resources]	Mass	1,31E-04	kg	(Estimated)
Iron ore [Non renewable resources]	Mass	1,47E-01	kg	(Calculated)
Kaolin ore [Non renewable resources]	Mass	2,20E-03	kg	Measured
Kaolinite (24% in ore as mined) [Non renewable resources]	Mass	8,60E-06	kg	(No statement)
Kieserite (25% in ore as mined) [Non renewable resources]	Mass	6,52E-08	kg	(No statement)
Lead - zinc ore (4.6%-0.6%) [Non renewable resources]	Mass	9,40E-03	kg	Calculated
Lead [Non renewable elements]	Mass	8,24E-04	kg	(No statement)
Lead ore [Non renewable resources]	Mass	1,77E-04	kg	Estimated
Lignite [Lignite (resource)]	Mass	2,24E-02	kg	(Estimated)
Lignite Australia [Lignite (resource)]	Mass	3,70E-05	kg	Literature
Lignite Australia [Lignite (resource)]	Mass	3,67E-04	kg	Literature
Lignite Austria [Lignite (resource)]	Mass	4,84E-07	kg	(Estimated)
Lignite France [Lignite (resource)]	Mass	5,65E-07	kg	Calculated
Lignite Germany (Lausitz) [Lignite (resource)]	Mass	4,14E-05	kg	Calculated
Lignite Germany (Rheinisch) [Lignite (resource)]	Mass	5,22E-03	kg	(Calculated)
Lignite Germany [Lignite (resource)]	Mass	1,96E-01	kg	(Literature)
Lignite Greece [Lignite (resource)]	Mass	8,85E-02	kg	Literature
Lignite Spain [Lignite (resource)]	Mass	1,78E-02	kg	(Literature)
Lignite USA [Lignite (resource)]	Mass	5,23E-05	kg	Literature
Limestone (calcium carbonate) [Non renewable resources]	Mass	9,29E-02	kg	(Literature)
Magnesit (Magnesium carbonate) [Non renewable resources]	Mass	1,42E-04	kg	(No statement)
Magnesium [Non renewable elements]	Mass	1,78E-08	kg	(No statement)
Manganese [Non renewable elements]	Mass	4,37E-05	kg	(No statement)
Manganese ore (R.O.M.) [Non renewable resources]	Mass	7,65E-04	kg	Calculated
Molybdenite (Mo 0,24%) [Non renewable resources]	Mass	2,36E-05	kg	Estimated
Molybdenum [Non renewable elements]	Mass	5,93E-05	kg	(No statement)
Natural Aggregate [Non renewable resources]	Mass	4,15E-01	kg	Calculated
Natural gas [Natural gas (resource)]	Mass	2,11E-01	kg	(Literature)
Natural gas Algeria [Natural gas (resource)]	Mass	5,49E-03	kg	(Literature)
Natural gas Angola [Natural gas (resource)]	Mass	1,00E-04	kg	(Estimated)
Natural gas Argentina [Natural gas (resource)]	Mass	2,47E-07	kg	Literature
Natural gas Australia [Natural gas (resource)]	Mass	1,15E-04	kg	(Estimated)
Natural gas Brazil [Natural gas (resource)]	Mass	4,10E-05	kg	(Estimated)
Natural gas Brunei [Natural gas (resource)]	Mass	4,27E-06	kg	Estimated
Natural gas Cameroon [Natural gas (resource)]	Mass	4,09E-05	kg	(Estimated)
Natural gas Canada [Natural gas (resource)]	Mass	1,08E-04	kg	(Literature)
Natural gas China [Natural gas (resource)]	Mass	1,24E-03	kg	(Calculated)
Natural gas CIS [Natural gas (resource)]	Mass	7,07E-02	kg	(Literature)
Natural gas Colombia [Natural gas (resource)]	Mass	6,30E-08	kg	(Literature)
Natural gas Denmark [Natural gas (resource)]	Mass	1,90E-03	kg	(Estimated)
Natural gas Egypt [Natural gas (resource)]	Mass	1,16E-04	kg	(Estimated)
Natural gas France [Natural gas (resource)]	Mass	1,75E-04	kg	(Estimated)
Natural gas Gabon [Natural gas (resource)]	Mass	5,58E-06	kg	(Estimated)
Natural gas Germany [Natural gas (resource)]	Mass	3,77E-02	kg	(Literature)
Natural gas Indonesia [Natural gas (resource)]	Mass	2,09E-05	kg	(Estimated)
Natural gas Iran [Natural gas (resource)]	Mass	2,44E-04	kg	(Estimated)
Natural gas Italy [Natural gas (resource)]	Mass	2,98E-03	kg	(Literature)
Natural gas Japan [Natural gas (resource)]	Mass	1,22E-06	kg	Estimated
Natural gas Kuwait [Natural gas (resource)]	Mass	2,27E-05	kg	(Estimated)

Appendix 2.4
LCI Data - Web based newspaper, Swedish scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Natural gas Libyan [Natural gas (resource)]	Mass	1,24E-03	kg	(Literature)
Natural gas Malaysia [Natural gas (resource)]	Mass	6,04E-06	kg	Estimated
Natural gas Mexico [Natural gas (resource)]	Mass	1,56E-05	kg	(Literature)
Natural gas Netherlands [Natural gas (resource)]	Mass	6,37E-02	kg	(Estimated)
Natural gas New Zealand [Natural gas (resource)]	Mass	2,22E-07	kg	(Estimated)
Natural gas Nigeria [Natural gas (resource)]	Mass	2,69E-04	kg	(Estimated)
Natural gas Norway [Natural gas (resource)]	Mass	3,00E-02	kg	(Estimated)
Natural gas Oman [Natural gas (resource)]	Mass	4,32E-05	kg	(Estimated)
Natural gas Qatar [Natural gas (resource)]	Mass	1,25E-06	kg	(Estimated)
Natural gas Saudi Arabia [Natural gas (resource)]	Mass	3,62E-04	kg	(Estimated)
Natural gas Spain [Natural gas (resource)]	Mass	5,33E-05	kg	(Estimated)
Natural gas Tunisia [Natural gas (resource)]	Mass	5,41E-06	kg	(Literature)
Natural gas United Arab Emirates [Natural gas (resource)]	Mass	4,66E-06	kg	(Estimated)
Natural gas United Kingdom [Natural gas (resource)]	Mass	1,50E-03	kg	(Literature)
Natural gas USA [Natural gas (resource)]	Mass	1,42E-04	kg	(Estimated)
Natural gas Venezuela [Natural gas (resource)]	Mass	1,67E-04	kg	(Literature)
Nickel [Non renewable elements]	Mass	8,12E-04	kg	(No statement)
Nickel ore (1.6%) [Non renewable resources]	Mass	7,18E-03	kg	Measured
Nitrogen [Renewable resources]	Mass	4,62E-07	kg	(Literature)
Occupation, arable, non-irrigated [Hemerobie ecoinvent]	Areatime	1,34E-04	m2*yr	(No statement)
Occupation, construction site [Hemerobie ecoinvent]	Areatime	8,77E-05	m2*yr	(No statement)
Occupation, dump site [Hemerobie ecoinvent]	Areatime	4,66E-03	m2*yr	(No statement)
Occupation, dump site, benthos [Hemerobie ecoinvent]	Areatime	9,47E-05	m2*yr	(No statement)
Occupation, forest, intensive [Hemerobie ecoinvent]	Areatime	1,71E-04	m2*yr	(No statement)
Occupation, forest, intensive, normal [Hemerobie ecoinvent]	Areatime	2,94E-01	m2*yr	(No statement)
Occupation, industrial area [Hemerobie ecoinvent]	Areatime	2,84E-03	m2*yr	(No statement)
Occupation, industrial area, benthos [Hemerobie ecoinvent]	Areatime	9,81E-07	m2*yr	(No statement)
Occupation, industrial area, built up [Hemerobie ecoinvent]	Areatime	3,85E-04	m2*yr	(No statement)
Occupation, industrial area, vegetation [Hemerobie ecoinvent]	Areatime	3,48E-04	m2*yr	(No statement)
Occupation, mineral extraction site [Hemerobie ecoinvent]	Areatime	3,13E-03	m2*yr	(No statement)
Occupation, permanent crop, fruit, intensive [Hemerobie ecoinvent]	Areatime	5,36E-06	m2*yr	(No statement)
Occupation, shrub land, sclerophyllous [Hemerobie ecoinvent]	Areatime	7,89E-05	m2*yr	(No statement)
Occupation, traffic area, rail embankment [Hemerobie ecoinvent]	Areatime	1,20E-04	m2*yr	(No statement)
Occupation, traffic area, rail network [Hemerobie ecoinvent]	Areatime	1,33E-04	m2*yr	(No statement)
Occupation, traffic area, road embankment [Hemerobie ecoinvent]	Areatime	2,95E-03	m2*yr	(No statement)
Occupation, traffic area, road network [Hemerobie ecoinvent]	Areatime	9,21E-04	m2*yr	(No statement)
Occupation, urban, discontinuously built [Hemerobie ecoinvent]	Areatime	2,59E-07	m2*yr	(No statement)
Occupation, water bodies, artificial [Hemerobie ecoinvent]	Areatime	6,80E-02	m2*yr	(No statement)
Occupation, water courses, artificial [Hemerobie ecoinvent]	Areatime	1,43E-02	m2*yr	(No statement)
Olivine [Non renewable resources]	Mass	3,43E-09	kg	(No statement)
Palladium [Non renewable elements]	Mass	3,99E-10	kg	(No statement)

Appendix 2.4
LCI Data - Web based newspaper, Swedish scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Peat [Renewable resources]	Mass	1,98E-01	kg	(No statement)
Phosphorus [Non renewable elements]	Mass	5,82E-06	kg	(No statement)
Phosphorus minerals [Non renewable resources]	Mass	2,05E-07	kg	Literature
Pit gas [Natural gas (resource)]	Mass	1,41E-02	kg	(Literature)
Platinum [Non renewable elements]	Mass	7,07E-10	kg	(No statement)
Potassium chloride [Non renewable resources]	Mass	7,23E-06	kg	Calculated
Precious metal ore (R.O.M) [Non renewable resources]	Mass	1,65E-01	kg	Calculated
Primary energy from hydro power (BUWAL) [Renewable energy resources]	Energy ren.	-3,97E-04	MJ	Literature
Primary energy from hydro power [Renewable energy resources]	Energy ren.	5,22E+01	MJ	(Literature)
Primary energy from solar energy [Renewable energy resources]	Energy ren.	1,67E-02	MJ	Literature
Primary energy from wind power [Renewable energy resources]	Energy ren.	3,27E+00	MJ	Calculated
Process and cooling water [Operating materials]	Mass	2,89E-09	kg	Literature
Process water [Operating materials]	Mass	1,80E+01	kg	(Measured)
Quartz sand (silica sand; silicon dioxide) [Non renewable resources]	Mass	4,58E-03	kg	(Literature)
Raw brown coal (BUWAL) [Lignite (resource)]	Mass	-6,54E-07	kg	Literature
Raw hard coal (BUWAL) [Hard coal (resource)]	Mass	-5,63E-07	kg	Literature
Raw natural gas (BUWAL) [Natural gas (resource)]	Mass	-9,22E-07	kg	Literature
Refractory [Minerals]	Mass	1,43E-12	kg	Measured
Renewable fuels [Renewable energy resources]	Mass	-4,82E-07	kg	Calculated
Rhenium [Non renewable elements]	Mass	3,49E-12	kg	(No statement)
Rhodium [Non renewable elements]	Mass	1,11E-11	kg	(No statement)
Rutile (titanium ore) [Non renewable resources]	Mass	1,13E-11	kg	(No statement)
sand [Non renewable resources]	Mass	1,60E-05	kg	(No statement)
Silver [Non renewable elements]	Mass	9,88E-11	kg	(No statement)
Slate [Non renewable resources]	Mass	1,91E-08	kg	(No statement)
Sodium chloride (rock salt) [Non renewable resources]	Mass	5,91E-02	kg	(Literature)
Sodium sulphate [Non renewable resources]	Mass	2,12E-05	kg	Literature
Soil [Non renewable resources]	Mass	5,93E-03	kg	(Calculated)
Steel scrap (St) [Waste for recovery]	Mass	9,37E-03	kg	Calculated
Sulphite [Inorganic emissions to sea water]	Mass	1,74E-16	kg	(No statement)
Sulphur (bonded) [Non renewable resources]	Mass	4,91E-08	kg	(Literature)
Sulphur [Non renewable elements]	Mass	7,47E-06	kg	(Literature)
Sylvite (25% in Sylvinite) [Non renewable resources]	Mass	5,01E-06	kg	(No statement)
Talc [Non renewable resources]	Mass	1,53E-04	kg	Calculated
Tin [Non renewable elements]	Mass	6,75E-07	kg	(No statement)
Tin ore [Non renewable resources]	Mass	7,15E-04	kg	Estimated
Titanium dioxide [Non renewable resources]	Mass	8,39E-05	kg	(No statement)
Titanium ore [Non renewable resources]	Mass	2,26E-06	kg	(No statement)
Transformation, from arable [Hemerobie ecoinvent]	Area	6,65E-06	sqm	(No statement)
Transformation, from arable, non-irrigated [Hemerobie ecoinvent]	Area	2,48E-04	sqm	(No statement)
Transformation, from arable, non-irrigated, fallow [Hemerobie ecoinvent]	Area	1,00E-07	sqm	(No statement)
Transformation, from dump site, inert material landfill [Hemerobie ecoinvent]	Area	1,42E-05	sqm	(No statement)
Transformation, from dump site, residual material landfill [Hemerobie ecoinvent]	Area	9,65E-07	sqm	(No statement)
Transformation, from dump site, sanitary landfill [Hemerobie ecoinvent]	Area	4,36E-07	sqm	(No statement)
Transformation, from dump site, slag compartment	Area	1,47E-07	sqm	(No statement)

Appendix 2.4
LCI Data - Web based newspaper, Swedish scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
[Hemerobie ecoinvent]				
Transformation, from forest [Hemerobie ecoinvent]	Area	1,68E-04	sqm	(No statement)
Transformation, from forest, extensive [Hemerobie ecoinvent]	Area	2,23E-03	sqm	(No statement)
Transformation, from industrial area [Hemerobie ecoinvent]	Area	9,86E-06	sqm	(No statement)
Transformation, from industrial area, benthos [Hemerobie ecoinvent]	Area	1,21E-08	sqm	(No statement)
Transformation, from industrial area, built up [Hemerobie ecoinvent]	Area	1,39E-09	sqm	(No statement)
Transformation, from industrial area, vegetation [Hemerobie ecoinvent]	Area	2,38E-09	sqm	(No statement)
Transformation, from mineral extraction site [Hemerobie ecoinvent]	Area	5,02E-05	sqm	(No statement)
Transformation, from pasture and meadow [Hemerobie ecoinvent]	Area	1,21E-04	sqm	(No statement)
Transformation, from pasture and meadow, intensive [Hemerobie ecoinvent]	Area	2,00E-07	sqm	(No statement)
Transformation, from sea and ocean [Hemerobie ecoinvent]	Area	9,48E-05	sqm	(No statement)
Transformation, from shrub land, sclerophyllous [Hemerobie ecoinvent]	Area	1,03E-04	sqm	(No statement)
Transformation, from unknown [Hemerobie ecoinvent]	Area	7,22E-04	sqm	(No statement)
Transformation, to arable [Hemerobie ecoinvent]	Area	2,78E-05	sqm	(No statement)
Transformation, to arable, non-irrigated [Hemerobie ecoinvent]	Area	2,48E-04	sqm	(No statement)
Transformation, to arable, non-irrigated, fallow [Hemerobie ecoinvent]	Area	1,71E-07	sqm	(No statement)
Transformation, to dump site [Hemerobie ecoinvent]	Area	3,69E-05	sqm	(No statement)
Transformation, to dump site, benthos [Hemerobie ecoinvent]	Area	9,47E-05	sqm	(No statement)
Transformation, to dump site, inert material landfill [Hemerobie ecoinvent]	Area	1,42E-05	sqm	(No statement)
Transformation, to dump site, residual material landfill [Hemerobie ecoinvent]	Area	9,65E-07	sqm	(No statement)
Transformation, to dump site, sanitary landfill [Hemerobie ecoinvent]	Area	4,36E-07	sqm	(No statement)
Transformation, to dump site, slag compartment [Hemerobie ecoinvent]	Area	1,47E-07	sqm	(No statement)
Transformation, to forest [Hemerobie ecoinvent]	Area	4,57E-05	sqm	(No statement)
Transformation, to forest, intensive [Hemerobie ecoinvent]	Area	1,14E-06	sqm	(No statement)
Transformation, to forest, intensive, normal [Hemerobie ecoinvent]	Area	2,20E-03	sqm	(No statement)
Transformation, to heterogeneous, agricultural [Hemerobie ecoinvent]	Area	8,63E-06	sqm	(No statement)
Transformation, to industrial area [Hemerobie ecoinvent]	Area	5,55E-05	sqm	(No statement)
Transformation, to industrial area, benthos [Hemerobie ecoinvent]	Area	6,54E-08	sqm	(No statement)
Transformation, to industrial area, built up [Hemerobie ecoinvent]	Area	1,69E-05	sqm	(No statement)
Transformation, to industrial area, vegetation [Hemerobie ecoinvent]	Area	9,33E-06	sqm	(No statement)
Transformation, to mineral extraction site [Hemerobie ecoinvent]	Area	2,96E-04	sqm	(No statement)
Transformation, to pasture and meadow [Hemerobie ecoinvent]	Area	7,45E-07	sqm	(No statement)
Transformation, to permanent crop, fruit, intensive	Area	9,05E-08	sqm	(No statement)

Appendix 2.4
LCI Data - Web based newspaper, Swedish scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
[Hemerobie ecoinvent]				
Transformation, to sea and ocean [Hemerobie ecoinvent]	Area	1,21E-08	sqm	(No statement)
Transformation, to shrub land, sclerophyllous [Hemerobie ecoinvent]	Area	1,58E-05	sqm	(No statement)
Transformation, to traffic area, rail embankment [Hemerobie ecoinvent]	Area	2,80E-07	sqm	(No statement)
Transformation, to traffic area, rail network [Hemerobie ecoinvent]	Area	3,07E-07	sqm	(No statement)
Transformation, to traffic area, road embankment [Hemerobie ecoinvent]	Area	2,19E-05	sqm	(No statement)
Transformation, to traffic area, road network [Hemerobie ecoinvent]	Area	1,66E-05	sqm	(No statement)
Transformation, to unknown [Hemerobie ecoinvent]	Area	9,56E-06	sqm	(No statement)
Transformation, to urban, discontinuously built [Hemerobie ecoinvent]	Area	5,16E-09	sqm	(No statement)
Transformation, to water bodies, artificial [Hemerobie ecoinvent]	Area	4,67E-04	sqm	(No statement)
Transformation, to water courses, artificial [Hemerobie ecoinvent]	Area	1,76E-04	sqm	(No statement)
Ulexite [Non renewable resources]	Mass	1,57E-06	kg	(No statement)
Uranium free ore (BUWAL) [Uranium (resource)]	Mass	-1,82E-08	kg	Literature
Uranium free ore [Uranium (resource)]	Mass	6,59E-17	kg	Literature
Uranium natural [Uranium (resource)]	Mass	9,81E-05	kg	(Literature)
Waste (solid) [Waste for disposal]	Mass	0,00E+00	kg	(No statement)
Waste (unspecified) [Consumer waste]	Mass	1,11E-03	kg	(No statement)
Waste for recovery (unspecified) [Waste for recovery]	Mass	9,87E-02	kg	(No statement)
Water (feed water) [Water]	Mass	4,27E-03	kg	(Literature)
Water (ground water) [Water]	Mass	7,09E+00	kg	(Estimated)
Water (lake water) [Water]	Mass	5,90E-02	kg	(No statement)
Water (river water) [Water]	Mass	3,09E+01	kg	(No statement)
Water (sea water) [Water]	Mass	4,90E+00	kg	(Literature)
Water (surface water) [Water]	Mass	6,31E+01	kg	(Literature)
Water [Water]	Mass	1,01E+02	kg	(Literature)
Water for industrial use [Operating materials]	Mass	1,94E+00	kg	(Calculated)
Water, salt, sole [in water]	Volume	7,80E-05	m3	(No statement)
Water,turbine use, unspecified natural origin [in water]	Volume	1,56E+02	m3	(No statement)
Vermiculite [Non renewable resources]	Mass	5,62E-08	kg	(No statement)
Volume occupied, final repository for low-active radioactive waste [Hemerobie ecoinvent]	Volume	1,63E-07	m3	(No statement)
Volume occupied, final repository for radioactive waste [Hemerobie ecoinvent]	Volume	4,17E-08	m3	(No statement)
Volume occupied, reservoir [Hemerobie ecoinvent]	Cubic meter years	1,18E+00	m3a	(No statement)
Volume occupied, underground deposit [Hemerobie ecoinvent]	Volume	5,09E-08	m3	(No statement)
Wood (BUWAL) [Renewable energy resources]	Mass	-1,29E-02	kg	Literature
Wood [Renewable energy resources]	Mass	2,41E-03	kg	(Estimated)
Wood, hard, standing [biotic]	Volume	4,50E-04	m3	(No statement)
Wood, soft, standing [biotic]	Volume	1,16E-03	m3	(No statement)
Zinc - copper ore (4.07%-2.59%) [Non renewable resources]	Mass	1,23E-01	kg	(Estimated)
Zinc - lead - copper ore (12%-3%-2%) [Non renewable resources]	Mass	9,20E-02	kg	Calculated
Zinc - lead ore (4.21%-4.96%) [Non renewable resources]	Mass	1,46E-10	kg	Estimated

Appendix 2.4
LCI Data - Web based newspaper, Swedish scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Zinc [Non renewable elements]	Mass	2,41E-05	kg	(No statement)
Zinc ore (sulphide) [Non renewable resources]	Mass	1,01E-11	kg	Calculated

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Acenaphthene [Hydrocarbons to fresh water]	Mass	2,63E-11	kg	(No statement)
Acenaphthene [Hydrocarbons to sea water]	Mass	1,27E-11	kg	(No statement)
Acenaphthylene [Hydrocarbons to fresh water]	Mass	1,65E-12	kg	(No statement)
Acenaphthylene [Hydrocarbons to sea water]	Mass	7,93E-13	kg	(No statement)
Acentaphthene [Group NMVOC to air]	Mass	6,15E-12	kg	(No statement)
Acetaldehyde (Ethanal) [Group NMVOC to air]	Mass	1,89E-06	kg	(Literature)
Acetic acid [Group NMVOC to air]	Mass	5,99E-06	kg	(Literature)
Acetic acid [Hydrocarbons to fresh water]	Mass	1,35E-08	kg	(No statement)
Acetone (dimethylcetone) [Group NMVOC to air]	Mass	1,61E-06	kg	(Literature)
Acid (calculated as H+) [Inorganic emissions to fresh water]	Mass	1,51E-05	kg	(Literature)
Aclonifen [Pesticides to agricultural soil]	Mass	5,01E-10	kg	(No statement)
Acrolein [Group NMVOC to air]	Mass	3,90E-10	kg	(No statement)
Acrylonitrile [Hydrocarbons to fresh water]	Mass	1,02E-05	kg	(Calculated)
Adsorbable organic halogen compounds (AOX) [Analytical measures to fresh water]	Mass	4,18E-05	kg	(Measured)
Adsorbable organic halogen compounds (AOX) [Analytical measures to sea water]	Mass	7,38E-10	kg	(No statement)
Aktinide (general) [Radioactive emissions to air]	Activity	2,06E-06	Bq	(No statement)
Aktinide (general) [Radioactive emissions to sea water]	Activity	2,29E-01	Bq	(No statement)
Aldehyde (unspecified) [Group NMVOC to air]	Mass	9,58E-08	kg	(Literature)
Alkane (unspecified) [Group NMVOC to air]	Mass	3,38E-05	kg	(Calculated)
Alkane (unspecified) [Hydrocarbons to fresh water]	Mass	5,50E-07	kg	(No statement)
Alkane (unspecified) [Hydrocarbons to sea water]	Mass	2,65E-07	kg	(No statement)
Alkene (unspecified) [Group NMVOC to air]	Mass	5,26E-05	kg	(Calculated)
Alkene (unspecified) [Hydrocarbons to fresh water]	Mass	5,08E-08	kg	(No statement)
Alkene (unspecified) [Hydrocarbons to sea water]	Mass	2,45E-08	kg	(No statement)
Aluminum [Fresh water]	Mass	8,65E-04	kg	(No statement)
Aluminum [Inorganic emissions to agricultural soil]	Mass	3,86E-05	kg	(No statement)
Aluminum [Inorganic emissions to fresh water]	Mass	3,99E-05	kg	(Literature)
Aluminum [Inorganic emissions to industrial soil]	Mass	3,64E-06	kg	(No statement)
Aluminum [Inorganic emissions to sea water]	Mass	1,50E-06	kg	(No statement)
Aluminum [Particles to air]	Mass	6,60E-05	kg	(No statement)
Aluminum scrap [Waste for recovery]	Mass	1,11E-06	kg	Measured
Americium (Am241) [Radioactive emissions to fresh water]	Activity	1,92E-02	Bq	Calculated
Ammonia [Inorganic emissions to air]	Mass	8,72E-05	kg	(Calculated)
Ammonia [Inorganic emissions to fresh water]	Mass	4,67E-07	kg	(Measured)
Ammonium / ammonia [Fresh water]	Mass	2,33E-07	kg	(No statement)
Ammonium / ammonia [Inorganic emissions to fresh water]	Mass	1,53E-04	kg	(Literature)
Ammonium / ammonia [Inorganic emissions to sea water]	Mass	1,63E-07	kg	(No statement)
Ammonium [Inorganic emissions to air]	Mass	2,56E-06	kg	Measured
Ammonium carbonate [high population density]	Mass	4,06E-09	kg	(No statement)
Ammonium nitrate [Inorganic emissions to air]	Mass	2,89E-10	kg	(Literature)
Antimony (Sb122) [Radioactive emissions to fresh water]	Activity	2,39E-06	Bq	(No statement)
Antimony (Sb124) [Radioactive emissions to air]	Activity	1,38E-04	Bq	(Literature)
Antimony (Sb124) [Radioactive emissions to fresh water]	Activity	4,75E-02	Bq	(Literature)
Antimony (Sb125) [Radioactive emissions to air]	Activity	6,19E-08	Bq	(No statement)
Antimony (Sb125) [Radioactive emissions to fresh water]	Activity	6,58E-02	Bq	(Literature)

Appendix 2.4
LCI Data - Web based newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Antimony [Fresh water]	Mass	1,30E-04	kg	(No statement)
Antimony [Heavy metals to agricultural soil]	Mass	8,77E-13	kg	(No statement)
Antimony [Heavy metals to air]	Mass	7,13E-07	kg	(Calculated)
Antimony [Heavy metals to fresh water]	Mass	7,03E-05	kg	(No statement)
Argon (Ar41) [Radioactive emissions to air]	Activity	5,51E+01	Bq	(Literature)
Aromatic hydrocarbons (unspecified) [Group NMVOC to air]	Mass	2,56E-07	kg	(Calculated)
Aromatic hydrocarbons (unspecified) [Hydrocarbons to fresh water]	Mass	2,22E-06	kg	Literature
Aromatic hydrocarbons (unspecified) [Hydrocarbons to sea water]	Mass	1,17E-06	kg	(No statement)
Arsenic [Fresh water]	Mass	2,86E-07	kg	(No statement)
Arsenic [Heavy metals to agricultural soil]	Mass	1,13E-08	kg	(No statement)
Arsenic [Heavy metals to air]	Mass	9,97E-07	kg	(Literature)
Arsenic [Heavy metals to fresh water]	Mass	1,16E-06	kg	(Literature)
Arsenic [Heavy metals to industrial soil]	Mass	2,28E-07	kg	Measured
Arsenic [Heavy metals to sea water]	Mass	2,44E-09	kg	(No statement)
Arsenic trioxide [Heavy metals to air]	Mass	6,88E-12	kg	Measured
Ash [Stockpile goods] *Not followed to the grave*	Mass	-4,22E-06	kg	Calculated
Atrazine [Pesticides to agricultural soil]	Mass	5,97E-12	kg	(No statement)
Barium (Ba140) [Radioactive emissions to air]	Activity	4,03E-06	Bq	(No statement)
Barium (Ba140) [Radioactive emissions to fresh water]	Activity	1,05E-05	Bq	(No statement)
Barium [Fresh water]	Mass	1,58E-05	kg	(No statement)
Barium [Inorganic emissions to agricultural soil]	Mass	7,35E-11	kg	(No statement)
Barium [Inorganic emissions to air]	Mass	3,24E-06	kg	(Literature)
Barium [Inorganic emissions to fresh water]	Mass	4,91E-06	kg	(Literature)
Barium [Inorganic emissions to industrial soil]	Mass	1,82E-06	kg	(No statement)
Barium [Inorganic emissions to sea water]	Mass	1,78E-06	kg	(No statement)
Barytes [ocean]	Mass	5,90E-05	kg	(No statement)
Battery Li-Ion (E-Paper) [Flows]	Mass	4,07E-11	kg	(No statement)
Bentazone [Pesticides to agricultural soil]	Mass	2,55E-10	kg	(No statement)
Benzaldehyde [Group NMVOC to air]	Mass	2,58E-11	kg	(No statement)
Benzene [Group NMVOC to air]	Mass	2,43E-05	kg	(Literature)
Benzene [Hydrocarbons to fresh water]	Mass	8,57E-07	kg	(Literature)
Benzene [Hydrocarbons to sea water]	Mass	1,70E-07	kg	(No statement)
Benzo{a}pyrene [Group PAH to air]	Mass	7,03E-08	kg	(Literature)
Beryllium [Fresh water]	Mass	7,07E-08	kg	(No statement)
Beryllium [Inorganic emissions to air]	Mass	2,46E-08	kg	(Literature)
Beryllium [Inorganic emissions to fresh water]	Mass	1,55E-09	kg	(Literature)
Biological oxygen demand (BOD) [Analytical measures to fresh water]	Mass	1,56E-03	kg	(Literature)
Biological oxygen demand (BOD) [Analytical measures to sea water]	Mass	2,18E-04	kg	(No statement)
Biological oxygen demand, BSB5 (Ecoinvent) [Fresh water]	Mass	3,57E-04	kg	(No statement)
Boiler ash (unspecified) [Waste for recovery]	Mass	-1,90E-05	kg	Calculated
Boron [Fresh water]	Mass	1,40E-05	kg	(No statement)
Boron [Inorganic emissions to air]	Mass	4,66E-08	kg	(No statement)
Boron [Inorganic emissions to fresh water]	Mass	2,12E-06	kg	(Literature)
Boron [Inorganic emissions to sea water]	Mass	1,68E-08	kg	(No statement)
Boron compounds (unspecified) [Inorganic emissions to air]	Mass	1,52E-05	kg	(Calculated)
Bromate [Inorganic emissions to fresh water]	Mass	1,34E-07	kg	(No statement)
Bromine [Fresh water]	Mass	5,04E-05	kg	(No statement)

Appendix 2.4
LCI Data - Web based newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Bromine [Inorganic emissions to air]	Mass	1,02E-05	kg	(Calculated)
Bromine [Inorganic emissions to fresh water]	Mass	2,40E-04	kg	(No statement)
Bromine [Inorganic emissions to sea water]	Mass	1,43E-06	kg	(No statement)
Butadiene [Group NMVOC to air]	Mass	8,47E-14	kg	(No statement)
Butane (n-butane) [Group NMVOC to air]	Mass	1,32E-06	kg	(Measured)
Butane [Group NMVOC to air]	Mass	1,75E-05	kg	(Literature)
Butene [Group NMVOC to air]	Mass	1,33E-07	kg	(No statement)
Butene [Hydrocarbons to fresh water]	Mass	9,21E-10	kg	(No statement)
Cadmium [Fresh water]	Mass	1,32E-07	kg	(No statement)
Cadmium [Heavy metals to agricultural soil]	Mass	2,28E-08	kg	(No statement)
Cadmium [Heavy metals to air]	Mass	2,40E-07	kg	(Literature)
Cadmium [Heavy metals to fresh water]	Mass	9,64E-07	kg	(Literature)
Cadmium [Heavy metals to industrial soil]	Mass	3,70E-08	kg	Measured
Cadmium [Heavy metals to sea water]	Mass	7,12E-10	kg	(No statement)
CaF2 (low radioactice) [Radioactive waste]	Mass	3,79E-07	kg	(Literature)
Calcium [Fresh water]	Mass	4,58E-03	kg	(No statement)
Calcium [Inorganic emissions to fresh water]	Mass	2,50E-03	kg	(Literature)
Calcium [Inorganic emissions to sea water]	Mass	6,76E-05	kg	(No statement)
Carbetamide [Pesticides to agricultural soil]	Mass	9,24E-11	kg	(No statement)
Carbon (C14) [Radioactive emissions to air]	Activity	1,74E+02	Bq	(Literature)
Carbon (C14) [Radioactive emissions to fresh water]	Activity	9,97E-01	Bq	(Estimated)
Carbon (unspecified) [Organic emissions to agricultural soil]	Mass	9,20E-05	kg	(No statement)
Carbon (unspecified) [Organic emissions to industrial soil]	Mass	1,09E-05	kg	(No statement)
Carbon dioxide (biotic) [Air]	Mass	1,49E+00	kg	(No statement)
Carbon dioxide [Inorganic emissions to air]	Mass	4,68E+00	kg	(Literature)
Carbon disulphide [Inorganic emissions to air]	Mass	6,64E-06	kg	(No statement)
Carbon monoxide (biotic) [Air]	Mass	1,50E-04	kg	(No statement)
Carbon monoxide [Inorganic emissions to air]	Mass	4,11E-03	kg	(Literature)
Carbon tetrachloride (tetrachloromethane) [Halogenated organic emissions to air]	Mass	9,79E-10	kg	(No statement)
Carbonate [Inorganic emissions to fresh water]	Mass	1,25E-05	kg	(Literature)
Cerium (Ce141) [Radioactive emissions to air]	Activity	9,76E-07	Bq	(No statement)
Cerium (Ce141) [Radioactive emissions to fresh water]	Activity	4,19E-06	Bq	(No statement)
Cerium (Ce144) [Radioactive emissions to fresh water]	Activity	1,27E-06	Bq	(No statement)
Cesium (Cs134) [Radioactive emissions to air]	Activity	5,37E-03	Bq	(Literature)
Cesium (Cs134) [Radioactive emissions to fresh water]	Activity	1,36E+00	Bq	(Literature)
Cesium (Cs136) [Radioactive emissions to fresh water]	Activity	7,43E-07	Bq	(No statement)
Cesium (Cs137) [Radioactive emissions to air]	Activity	1,20E-02	Bq	(Literature)
Cesium (Cs137) [Radioactive emissions to fresh water]	Activity	9,19E+00	Bq	(Literature)
Cesium (Cs137) [Radioactive emissions to sea water]	Activity	2,62E+01	Bq	(No statement)
Cesium [Heavy metals to fresh water]	Mass	4,23E-09	kg	(No statement)
Cesium [Heavy metals to sea water]	Mass	2,04E-09	kg	(No statement)
Chemical oxygen demand (COD) [Analytical measures to fresh water]	Mass	1,59E-02	kg	(Literature)
Chemical oxygen demand (COD) [Analytical measures to sea water]	Mass	2,20E-04	kg	Estimated
Chemical oxygen demand, CSB (Ecoinvent) [Fresh water]	Mass	1,09E-03	kg	(No statement)
Chlorate [Inorganic emissions to fresh water]	Mass	1,18E-06	kg	(No statement)
Chloride (unspecified) [Inorganic emissions to air]	Mass	4,72E-06	kg	(Measured)
Chloride [Fresh water]	Mass	2,91E-05	kg	(No statement)
Chloride [Inorganic emissions to fresh water]	Mass	3,74E-02	kg	(Literature)

Appendix 2.4
LCI Data - Web based newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Chloride [Inorganic emissions to sea water]	Mass	1,02E-03	kg	(No statement)
Chlorinated hydrocarbons (unspecified) [Halogenated organic emissions to fresh water]	Mass	8,19E-08	kg	(Estimated)
Chlorine (dissolved) [Inorganic emissions to fresh water]	Mass	1,64E-05	kg	(Literature)
Chlorine [Inorganic emissions to agricultural soil]	Mass	4,99E-06	kg	(No statement)
Chlorine [Inorganic emissions to air]	Mass	2,30E-06	kg	(Literature)
Chlorine [Inorganic emissions to industrial soil]	Mass	7,99E-05	kg	(No statement)
Chloromethane (methyl chloride) [Halogenated organic emissions to air]	Mass	3,64E-09	kg	Estimated
Chloromethane (methyl chloride) [Halogenated organic emissions to fresh water]	Mass	1,59E-07	kg	(Literature)
Chlorothalonil [Pesticides to agricultural soil]	Mass	2,28E-09	kg	(No statement)
Chlorous dissolvent [Halogenated organic emissions to fresh water]	Mass	6,67E-09	kg	(No statement)
Chlorous dissolvent [Halogenated organic emissions to sea water]	Mass	5,87E-16	kg	(No statement)
Chromium (Cr51) [Radioactive emissions to air]	Activity	6,25E-08	Bq	(No statement)
Chromium (Cr51) [Radioactive emissions to fresh water]	Activity	5,04E-02	Bq	(No statement)
Chromium (unspecified) [Heavy metals to agricultural soil]	Mass	3,30E-07	kg	(No statement)
Chromium (unspecified) [Heavy metals to air]	Mass	1,49E-06	kg	(Literature)
Chromium (unspecified) [Heavy metals to fresh water]	Mass	4,58E-08	kg	(Literature)
Chromium (unspecified) [Heavy metals to industrial soil]	Mass	2,08E-08	kg	(No statement)
Chromium +III [Heavy metals to fresh water]	Mass	2,89E-08	kg	(Literature)
Chromium +VI [Fresh water]	Mass	2,10E-06	kg	(No statement)
Chromium +VI [Heavy metals to air]	Mass	2,65E-08	kg	(No statement)
Chromium +VI [Heavy metals to fresh water]	Mass	1,17E-06	kg	(No statement)
Chromium +VI [Heavy metals to industrial soil]	Mass	3,29E-06	kg	(No statement)
Cobalt (Co57) [Radioactive emissions to fresh water]	Activity	2,36E-05	Bq	(No statement)
Cobalt (Co58) [Radioactive emissions to air]	Activity	3,57E-04	Bq	(Literature)
Cobalt (Co58) [Radioactive emissions to fresh water]	Activity	4,08E-01	Bq	(Literature)
Cobalt (Co60) [Radioactive emissions to air]	Activity	4,02E-03	Bq	(Literature)
Cobalt (Co60) [Radioactive emissions to fresh water]	Activity	4,50E+00	Bq	(Literature)
Cobalt [Fresh water]	Mass	2,75E-06	kg	(No statement)
Cobalt [Heavy metals to agricultural soil]	Mass	3,14E-08	kg	(No statement)
Cobalt [Heavy metals to air]	Mass	2,74E-07	kg	(Literature)
Cobalt [Heavy metals to fresh water]	Mass	1,96E-08	kg	(No statement)
Cobalt [Heavy metals to sea water]	Mass	7,89E-10	kg	(No statement)
Copper [Fresh water]	Mass	1,12E-04	kg	(No statement)
Copper [Heavy metals to agricultural soil]	Mass	3,70E-07	kg	(No statement)
Copper [Heavy metals to air]	Mass	4,50E-06	kg	(Literature)
Copper [Heavy metals to fresh water]	Mass	2,62E-06	kg	(Literature)
Copper [Heavy metals to industrial soil]	Mass	2,90E-06	kg	Measured
Copper [Heavy metals to sea water]	Mass	4,17E-09	kg	(No statement)
Cumene (isopropylbenzene) [Group NMVOC to air]	Mass	6,10E-08	kg	(No statement)
Cumene (isopropylbenzene) [Organic emissions to fresh water]	Mass	1,47E-07	kg	(No statement)
Curium (Cm alpha) [Radioactive emissions to fresh water]	Activity	2,55E-02	Bq	Calculated
Cyanide (unspecified) [Inorganic emissions to air]	Mass	5,53E-07	kg	(No statement)
Cyanide [Inorganic emissions to fresh water]	Mass	1,19E-06	kg	(Literature)
Cyanide [Inorganic emissions to sea water]	Mass	7,26E-09	kg	(No statement)
Cycloalkanes (unspec.) [Group NMVOC to air]	Mass	1,08E-09	kg	(No statement)
Cypermethrin [Pesticides to agricultural soil]	Mass	2,06E-12	kg	(No statement)

Appendix 2.4
LCI Data - Web based newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Detergent (unspecified) [Other emissions to fresh water]	Mass	1,44E-10	kg	(Literature)
Dichloroethane (ethylene dichloride) [Halogenated organic emissions to air]	Mass	1,60E-08	kg	(No statement)
Dichloroethane (ethylene dichloride) [Halogenated organic emissions to fresh water]	Mass	7,76E-09	kg	(No statement)
Dichloromethane (methylene chloride) [Halogenated organic emissions to air]	Mass	5,72E-06	kg	Calculated
Dichloromethane (methylene chloride) [Halogenated organic emissions to fresh water]	Mass	9,21E-08	kg	(No statement)
Dichloropropane [Halogenated organic emissions to fresh water]	Mass	0,00E+00	kg	Estimated
Dichromate [river]	Mass	8,59E-08	kg	(No statement)
Diethyl amine (ethylene ethane amine) [Group NMVOC to air]	Mass	6,41E-11	kg	Measured
Different pollutants [Other emissions to agricultural soil]	Mass	7,42E-04	kg	(No statement)
Different pollutants [Other emissions to industrial soil]	Mass	2,71E-05	kg	(No statement)
Dinoseb [Pesticides to agricultural soil]	Mass	6,20E-10	kg	(No statement)
Dissolved organic carbon, DOC (Ecoinvent) [Fresh water]	Mass	4,51E-04	kg	(No statement)
Dust (> PM10) [Particles to air]	Mass	2,03E-03	kg	(No statement)
Dust (PM2,5 - PM10) [Particles to air]	Mass	2,04E-04	kg	(No statement)
Dust (PM2.5) [Particles to air]	Mass	1,55E-03	kg	(No statement)
Dust (unspecified) [Particles to air]	Mass	2,19E-03	kg	(Literature)
Ethane [Group NMVOC to air]	Mass	2,20E-04	kg	(Literature)
Ethanol [Group NMVOC to air]	Mass	2,45E-06	kg	(Literature)
Ethene (ethylene) [Group NMVOC to air]	Mass	1,02E-06	kg	(Literature)
Ethene (ethylene) [Hydrocarbons to fresh water]	Mass	5,42E-08	kg	(No statement)
Ethine (acetylene) [Group NMVOC to air]	Mass	4,48E-08	kg	(No statement)
Ethyl benzene [Group NMVOC to air]	Mass	1,35E-05	kg	(Calculated)
Ethyl benzene [Hydrocarbons to fresh water]	Mass	1,87E-07	kg	(Literature)
Ethyl benzene [Hydrocarbons to sea water]	Mass	4,89E-08	kg	(No statement)
Ethylene oxide [Group NMVOC to air]	Mass	7,39E-10	kg	(No statement)
Ethylene oxide [Hydrocarbons to fresh water]	Mass	1,77E-11	kg	(No statement)
Ethylenediamine [Group NMVOC to air]	Mass	6,38E-13	kg	(No statement)
Ethylenediamine [Organic emissions to fresh water]	Mass	1,55E-12	kg	(No statement)
Exhaust [Other emissions to air]	Mass	9,73E+00	kg	(Calculated)
Fatty acids (calculated as total carbon) [Hydrocarbons to fresh water]	Mass	1,56E-05	kg	(No statement)
Fatty acids (calculated as total carbon) [Hydrocarbons to sea water]	Mass	1,20E-05	kg	(No statement)
Fenpiclonil [Pesticides to agricultural soil]	Mass	1,07E-10	kg	(No statement)
Fluoride (unspecified) [Inorganic emissions to air]	Mass	4,30E-07	kg	(Literature)
Fluoride [Fresh water]	Mass	9,01E-06	kg	(No statement)
Fluoride [Inorganic emissions to fresh water]	Mass	1,42E-04	kg	(Literature)
Fluoride [Inorganic emissions to industrial soil]	Mass	2,41E-06	kg	(No statement)
Fluoride [Inorganic emissions to sea water]	Mass	2,53E-07	kg	(No statement)
Fluorides [Inorganic emissions to air]	Mass	3,45E-10	kg	(Estimated)
Fluorine [Inorganic emissions to air]	Mass	6,43E-07	kg	(Literature)
Fluorine [Inorganic emissions to fresh water]	Mass	2,48E-06	kg	(Measured)
Fly ash (unspecified) [Waste for recovery]	Mass	-7,40E-05	kg	Calculated
Formaldehyde (methanal) [Group NMVOC to air]	Mass	1,22E-05	kg	(Literature)
Formaldehyde (methanal) [Hydrocarbons to fresh water]	Mass	1,70E-08	kg	Literature
Glutaraldehyde [Hydrocarbons to sea water]	Mass	7,28E-09	kg	(No statement)
Glyphosate [Pesticides to agricultural soil]	Mass	1,60E-09	kg	(No statement)
Glyphosate [Pesticides to industrial soil]	Mass	8,09E-09	kg	(No statement)

Appendix 2.4
LCI Data - Web based newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Graphites [Particles to air]	Mass	0,00E+00	kg	Estimated
Gypsum (FDI) [Waste for recovery]	Mass	1,06E-03	kg	(Measured)
Gypsum [Waste for recovery]	Mass	6,15E-05	kg	(Estimated)
Halogenated hydrocarbons (unspecified) [Halogenated organic emissions to air]	Mass	-1,51E-12	kg	Literature
Halon (1211) [Halogenated organic emissions to air]	Mass	1,28E-08	kg	(No statement)
Halon (1301) [Halogenated organic emissions to air]	Mass	1,03E-08	kg	(Literature)
Hazardous waste (unspec.) [Hazardous waste]	Mass	4,14E-02	kg	(Literature)
Heat from natural gas [Flows]	Energy	5,14E-12	MJ	(No statement)
Heat from oil [Flows]	Energy	4,63E-11	MJ	(No statement)
Heat from waste [Flows]	Energy	5,51E-11	MJ	(No statement)
Heavy metals to water (unspecified) [Heavy metals to fresh water]	Mass	1,00E-07	kg	(Measured)
Helium [Inorganic emissions to air]	Mass	4,08E-06	kg	(Literature)
Heptane (isomers) [Group NMVOC to air]	Mass	1,33E-06	kg	(No statement)
Hexachlorobenzene (Perchlorobenzene) [Halogenated organic emissions to air]	Mass	1,35E-10	kg	(No statement)
Hexaflourosilicates [Air]	Mass	2,23E-08	kg	(No statement)
Hexaflourosilicates [Sweet-]	Mass	4,01E-08	kg	(No statement)
Hexane (isomers) [Group NMVOC to air]	Mass	1,04E-05	kg	(Literature)
Highly radioactive waste [Radioactive waste]	Mass	5,54E-06	kg	(Calculated)
Highly-active fission product solution [Radioactive waste]	Mass	4,14E-08	kg	(Estimated)
Housing (E-Paper) [Flows]	Mass	2,44E-06	kg	(No statement)
Hydrocarbons (unspecified) [Hydrocarbons to fresh water]	Mass	3,24E-06	kg	(Literature)
Hydrocarbons (unspecified) [Hydrocarbons to sea water]	Mass	1,11E-06	kg	(No statement)
Hydrocarbons, aromatic [Group NMVOC to air]	Mass	4,14E-07	kg	(No statement)
Hydrocarbons, chloro-/fluoro- [Halogenated organic emissions to air]	Mass	9,84E-09	kg	(No statement)
Hydrocarbons, halogenated [Halogenated organic emissions to air]	Mass	3,22E-09	kg	(No statement)
Hydrogen (H3) [Radioactive emissions to air]	Activity	9,55E+02	Bq	(Literature)
Hydrogen (H3) [Radioactive emissions to fresh water]	Activity	3,54E+04	Bq	(Literature)
Hydrogen (H3) [Radioactive emissions to sea water]	Activity	5,44E+04	Bq	(No statement)
Hydrogen [Inorganic emissions to air]	Mass	3,13E-05	kg	(Measured)
Hydrogen arsenic (arsine) [Heavy metals to air]	Mass	5,71E-10	kg	Measured
Hydrogen chloride [Inorganic emissions to air]	Mass	3,34E-04	kg	(Literature)
Hydrogen chloride [Inorganic emissions to fresh water]	Mass	1,27E-12	kg	Estimated
Hydrogen cyanide (prussic acid) [Inorganic emissions to air]	Mass	3,84E-08	kg	(Calculated)
Hydrogen fluoride (hydrofluoric acid) [Inorganic emissions to fresh water]	Mass	1,85E-09	kg	Measured
Hydrogen fluoride [Inorganic emissions to air]	Mass	1,04E-04	kg	(Literature)
Hydrogen peroxide [Sweet-]	Mass	6,76E-10	kg	(No statement)
Hydrogen sulphide [Fresh water]	Mass	4,32E-06	kg	(No statement)
Hydrogen sulphide [Inorganic emissions to air]	Mass	7,36E-05	kg	(Literature)
Hydrogen sulphide [Inorganic emissions to fresh water]	Mass	2,10E-08	kg	(No statement)
Hydroxide [Inorganic emissions to fresh water]	Mass	5,85E-06	kg	Estimated
Hypochlorite [Inorganic emissions to fresh water]	Mass	8,47E-07	kg	(No statement)
Hypochlorite [Inorganic emissions to sea water]	Mass	9,50E-07	kg	(No statement)
Iliad Module (E-Paper) [Flows]	Mass	4,79E-12	kg	(No statement)
Incineration good [Waste for disposal]	Mass	9,36E-05	kg	Literature
Industrial waste for municipal disposal [Consumer waste]	Mass	9,67E-03	kg	(Literature)
inert chemical waste [Consumer waste]	Mass	1,60E-04	kg	(Literature)

Appendix 2.4
LCI Data - Web based newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Inert gases [Radioactive emissions to air]	Activity	1,35E+06	Bq	(No statement)
Inorganic salts and acids (unspecified) [Inorganic emissions to fresh water]	Mass	-1,60E-07	kg	Literature
Iodide [Fresh water]	Mass	1,19E-12	kg	(No statement)
Iodide [Inorganic emissions to fresh water]	Mass	4,58E-07	kg	(No statement)
Iodide [Inorganic emissions to sea water]	Mass	2,04E-07	kg	(No statement)
Iodine (I129) [Radioactive emissions to air]	Activity	1,82E-01	Bq	Calculated
Iodine (I129) [Radioactive emissions to fresh water]	Activity	2,85E+00	Bq	(Estimated)
Iodine (I131) [Radioactive emissions to air]	Activity	1,45E-01	Bq	(Literature)
Iodine (I131) [Radioactive emissions to fresh water]	Activity	9,52E-03	Bq	(Literature)
Iodine (I133) [Radioactive emissions to air]	Activity	4,81E-06	Bq	(No statement)
Iodine (I133) [Radioactive emissions to fresh water]	Activity	6,57E-06	Bq	(No statement)
Iodine [Inorganic emissions to air]	Mass	2,57E-07	kg	(No statement)
Iron (Fe59) [Radioactive emissions to fresh water]	Activity	1,81E-06	Bq	(No statement)
Iron [Fresh water]	Mass	4,96E-04	kg	(No statement)
Iron [Heavy metals to agricultural soil]	Mass	9,07E-05	kg	(No statement)
Iron [Heavy metals to air]	Mass	1,46E-06	kg	(Literature)
Iron [Heavy metals to fresh water]	Mass	9,34E-04	kg	(Literature)
Iron [Heavy metals to industrial soil]	Mass	2,32E-05	kg	(No statement)
Iron [Heavy metals to sea water]	Mass	1,11E-07	kg	(No statement)
Isocyanide acid [Air]	Mass	5,99E-07	kg	(No statement)
Jacket and body material [Radioactive waste]	Mass	5,58E-09	kg	(Calculated)
Krypton (Kr85) [Radioactive emissions to air]	Activity	7,37E+05	Bq	(Literature)
Krypton (Kr85m) [Radioactive emissions to air]	Activity	1,28E+00	Bq	(Literature)
Krypton (Kr87) [Radioactive emissions to air]	Activity	2,43E-02	Bq	(No statement)
Krypton (Kr88) [Radioactive emissions to air]	Activity	2,60E-02	Bq	(No statement)
Krypton (Kr89) [Radioactive emissions to air]	Activity	7,99E-03	Bq	(No statement)
Lanthanides [Heavy metals to air]	Mass	9,23E-10	kg	(Estimated)
Lanthanum (La140) [Radioactive emissions to fresh water]	Activity	1,12E-05	Bq	(No statement)
Lanthanum (La141) [Radioactive emissions to air]	Activity	3,44E-07	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to air]	Activity	1,69E-01	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to fresh water]	Activity	2,27E-01	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to sea water]	Activity	1,15E-02	Bq	(No statement)
Lead [Fresh water]	Mass	1,32E-06	kg	(No statement)
Lead [Heavy metals to agricultural soil]	Mass	1,33E-07	kg	(No statement)
Lead [Heavy metals to air]	Mass	4,59E-06	kg	(Literature)
Lead [Heavy metals to fresh water]	Mass	7,98E-06	kg	(Literature)
Lead [Heavy metals to industrial soil]	Mass	1,63E-06	kg	Measured
Lead [Heavy metals to sea water]	Mass	1,91E-08	kg	(No statement)
Linuron [Pesticides to agricultural soil]	Mass	3,88E-09	kg	(No statement)
Liquid hazardous waste [Hazardous waste]	Mass	9,18E-07	kg	(Estimated)
Liquid waste [Consumer waste]	Mass	7,25E+03	kg	(Calculated)
Magnesium [Fresh water]	Mass	4,81E-04	kg	(No statement)
Magnesium [Inorganic emissions to fresh water]	Mass	1,47E-04	kg	(Literature)
Magnesium [Inorganic emissions to sea water]	Mass	1,12E-05	kg	(No statement)
Magnesium chloride [Inorganic emissions to fresh water]	Mass	5,03E-10	kg	(No statement)
Mancozeb [Pesticides to agricultural soil]	Mass	2,97E-09	kg	(No statement)
Manganese (Mn54) [Radioactive emissions to air]	Activity	3,20E-08	Bq	(No statement)
Manganese (Mn54) [Radioactive emissions to fresh water]	Activity	6,78E-01	Bq	(Literature)
Manganese [Fresh water]	Mass	9,71E-05	kg	(No statement)
Manganese [Heavy metals to agricultural soil]	Mass	3,13E-05	kg	(No statement)

Appendix 2.4
LCI Data - Web based newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Manganese [Heavy metals to air]	Mass	2,76E-06	kg	(Calculated)
Manganese [Heavy metals to fresh water]	Mass	8,34E-06	kg	(Literature)
Manganese [Heavy metals to industrial soil]	Mass	1,45E-07	kg	(No statement)
Manganese [Heavy metals to sea water]	Mass	9,00E-08	kg	(No statement)
Medium and low radioactive liquid waste [Radioactive waste]	Mass	5,76E-08	kg	(Estimated)
Medium and low radioactive wastes [Radioactive waste]	Mass	6,58E-06	kg	(Literature)
Mercaptan (unspecified) [Group NMVOC to air]	Mass	1,44E-10	kg	(Literature)
Mercury [Fresh water]	Mass	7,54E-09	kg	(No statement)
Mercury [Heavy metals to agricultural soil]	Mass	7,35E-10	kg	(No statement)
Mercury [Heavy metals to air]	Mass	1,15E-07	kg	(Literature)
Mercury [Heavy metals to fresh water]	Mass	2,76E-08	kg	(Literature)
Mercury [Heavy metals to industrial soil]	Mass	9,19E-09	kg	Measured
Mercury [Heavy metals to sea water]	Mass	1,07E-10	kg	(No statement)
Metal ions (unspecific) [Fresh water]	Mass	8,63E-05	kg	(No statement)
Metal ions (unspecific) [Inorganic emissions to fresh water]	Mass	9,22E-06	kg	(Calculated)
Metaldehyde [Organic emissions to agricultural soil]	Mass	1,79E-11	kg	(No statement)
Metals (unspecified) [Inorganic emissions to fresh water]	Mass	4,54E-16	kg	Literature
Metals (unspecified) [Particles to air]	Mass	-4,32E-08	kg	(Estimated)
Metals (unspecified) [Particles to fresh water]	Mass	3,67E-07	kg	(Literature)
Methacrylate [Group NMVOC to air]	Mass	5,04E-08	kg	Calculated
Methane (biotic) [Air]	Mass	1,11E-04	kg	(No statement)
Methane [Organic emissions to air (group VOC)]	Mass	1,29E-02	kg	(Literature)
Methanol [Group NMVOC to air]	Mass	2,64E-06	kg	(Literature)
Methanol [Hydrocarbons to fresh water]	Mass	1,27E-05	kg	(Measured)
Methanol [Hydrocarbons to sea water]	Mass	1,51E-08	kg	(No statement)
Methanol [Organic intermediate products]	Mass	2,70E-10	kg	Literature
Methyl methacrylate (MMA) [Group NMVOC to air]	Mass	1,39E-06	kg	Calculated
Methyl tert-butylether [Group NMVOC to air]	Mass	2,95E-09	kg	(No statement)
Methyl tert-butylether [Hydrocarbons to fresh water]	Mass	4,55E-11	kg	(No statement)
Methyl tert-butylether [Hydrocarbons to sea water]	Mass	1,33E-08	kg	(No statement)
Metolachlor [Pesticides to agricultural soil]	Mass	2,81E-08	kg	(No statement)
Metribuzin [Pesticides to agricultural soil]	Mass	1,04E-10	kg	(No statement)
Mineral waste [Consumer waste]	Mass	2,42E-07	kg	(Estimated)
Molybdenum (Mo99) [Radioactive emissions to fresh water]	Activity	3,85E-06	Bq	(No statement)
Molybdenum [Fresh water]	Mass	8,50E-08	kg	(No statement)
Molybdenum [Heavy metals to agricultural soil]	Mass	7,72E-09	kg	(No statement)
Molybdenum [Heavy metals to air]	Mass	2,36E-08	kg	(Literature)
Molybdenum [Heavy metals to fresh water]	Mass	1,58E-06	kg	(Estimated)
Molybdenum [Heavy metals to sea water]	Mass	4,20E-10	kg	(No statement)
Monoethanolamine [Group NMVOC to air]	Mass	1,20E-08	kg	(No statement)
Municipal waste [Consumer waste]	Mass	2,19E-04	kg	(Calculated)
Napropamide [Pesticides to agricultural soil]	Mass	3,16E-11	kg	(No statement)
Neutral salts [Inorganic emissions to fresh water]	Mass	-5,10E-08	kg	Calculated
Nickel [Fresh water]	Mass	3,44E-05	kg	(No statement)
Nickel [Heavy metals to agricultural soil]	Mass	9,72E-08	kg	(No statement)
Nickel [Heavy metals to air]	Mass	3,30E-06	kg	(Literature)
Nickel [Heavy metals to fresh water]	Mass	8,34E-07	kg	(Literature)
Nickel [Heavy metals to industrial soil]	Mass	2,29E-09	kg	(No statement)
Nickel [Heavy metals to sea water]	Mass	1,92E-09	kg	(No statement)
Niobium (Nb95) [Radioactive emissions to air]	Activity	1,08E-02	Bq	(No statement)

Appendix 2.4
LCI Data - Web based newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Nitrate [Fresh water]	Mass	2,08E-05	kg	(No statement)
Nitrate [Inorganic emissions to air]	Mass	3,95E-09	kg	(No statement)
Nitrate [Inorganic emissions to fresh water]	Mass	5,68E-04	kg	(Literature)
Nitrate [Inorganic emissions to sea water]	Mass	1,74E-05	kg	(No statement)
Nitrite [Fresh water]	Mass	1,27E-08	kg	(No statement)
Nitrite [Inorganic emissions to fresh water]	Mass	6,92E-06	kg	(No statement)
Nitrite [Inorganic emissions to sea water]	Mass	3,55E-07	kg	(No statement)
Nitrogen [Inorganic emissions to fresh water]	Mass	2,75E-05	kg	(Estimated)
Nitrogen [Inorganic emissions to sea water]	Mass	9,92E-09	kg	(No statement)
Nitrogen organic bounded [Fresh water]	Mass	3,80E-07	kg	(No statement)
Nitrogen organic bounded [Inorganic emissions to fresh water]	Mass	1,97E-06	kg	Literature
Nitrogen organic bounded [Inorganic emissions to sea water]	Mass	6,66E-07	kg	(No statement)
Nitrogen oxides [Inorganic emissions to air]	Mass	1,30E-02	kg	(Literature)
Nitrous oxide (laughing gas) [Inorganic emissions to air]	Mass	2,95E-04	kg	(Literature)
NMVOC (unspecified) [Group NMVOC to air]	Mass	1,63E-03	kg	(Literature)
non used primary energy from water power [Other emissions to fresh water]	Energy ren.	3,58E-01	MJ	(Calculated)
non used primary energy from wind power [Other emissions to air]	Energy ren.	2,09E-02	MJ	(Measured)
Oil (unspecified) [Hydrocarbons to fresh water]	Mass	3,64E-04	kg	(Literature)
Oil (unspecified) [Hydrocarbons to sea water]	Mass	6,71E-05	kg	(No statement)
Oil (unspecified) [Organic emissions to agricultural soil]	Mass	4,38E-04	kg	(No statement)
Oil (unspecified) [Organic emissions to industrial soil]	Mass	2,17E-06	kg	Measured
Orbencarb [Pesticides to agricultural soil]	Mass	5,64E-10	kg	(No statement)
Organic chlorine compounds (unspecified) [Organic emissions to fresh water]	Mass	1,44E-10	kg	(Literature)
Organic chlorine compounds [Organic emissions to air (group VOC)]	Mass	1,44E-10	kg	(Literature)
Organic compounds (dissolved) [Organic emissions to fresh water]	Mass	4,09E-08	kg	Calculated
Organic compounds (unspecified) [Organic emissions to fresh water]	Mass	3,61E-15	kg	Literature
Organic waste [Consumer waste]	Mass	1,10E-09	kg	Literature
Overburden [Stockpile goods] *Not followed to the grave*	Mass	1,19E+00	kg	(Calculated)
Ozone [Inorganic emissions to air]	Mass	8,11E-05	kg	(No statement)
Pentachlorobenzene [Halogenated organic emissions to air]	Mass	1,17E-10	kg	(No statement)
Pentachlorophenol (PCP) [Halogenated organic emissions to air]	Mass	2,25E-08	kg	(No statement)
Pentane (n-pentane) [Group NMVOC to air]	Mass	2,86E-05	kg	(Literature)
Personal computer [Flows]	Number of pieces	4,32E-17	pcs.	(No statement)
Phenol (hydroxy benzene) [Group NMVOC to air]	Mass	3,08E-08	kg	Literature
Phenol (hydroxy benzene) [Hydrocarbons to fresh water]	Mass	9,57E-07	kg	(Estimated)
Phenol (hydroxy benzene) [Hydrocarbons to sea water]	Mass	2,62E-07	kg	(No statement)
Phosphate [Fresh water]	Mass	2,44E-05	kg	(No statement)
Phosphate [Inorganic emissions to fresh water]	Mass	3,13E-05	kg	(Literature)
Phosphate [Inorganic emissions to sea water]	Mass	1,93E-07	kg	(No statement)
Phosphorus [Inorganic emissions to agricultural soil]	Mass	1,53E-05	kg	(No statement)
Phosphorus [Inorganic emissions to air]	Mass	3,59E-06	kg	(No statement)
Phosphorus [Inorganic emissions to fresh water]	Mass	1,29E-07	kg	(No statement)
Phosphorus [Inorganic emissions to industrial soil]	Mass	1,82E-07	kg	(No statement)
Phosphorus [Inorganic emissions to sea water]	Mass	2,30E-08	kg	(No statement)

Appendix 2.4
LCI Data - Web based newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Pirimicarb [Pesticides to agricultural soil]	Mass	2,42E-11	kg	(No statement)
Plastic (unspecified) [Waste for recovery]	Mass	6,22E-05	kg	(Literature)
Platinum [Heavy metals to air]	Mass	3,79E-15	kg	(No statement)
Plutonium (Pu alpha) [Radioactive emissions to air]	Activity	2,61E-04	Bq	(Estimated)
Plutonium (Pu alpha) [Radioactive emissions to fresh water]	Activity	8,28E-02	Bq	(Estimated)
Plutonium (Pu238) [Radioactive emissions to air]	Activity	1,92E-08	Bq	(No statement)
Plutonium as residual product [Radioactive waste]	Mass	1,13E-08	kg	(Calculated)
Polonium (Po210) [Radioactive emissions to air]	Activity	2,61E-01	Bq	(No statement)
Polonium (Po210) [Radioactive emissions to fresh water]	Activity	2,27E-01	Bq	(No statement)
Polonium (Po210) [Radioactive emissions to sea water]	Activity	1,75E-02	Bq	(No statement)
Polychlorinated biphenyls (PCB unspecified) [Halogenated organic emissions to air]	Mass	1,66E-10	kg	(No statement)
Polychlorinated dibenzo-p-dioxins (2,3,7,8 - TCDD) [Halogenated organic emissions to air]	Mass	3,97E-12	kg	(Literature)
Polychlorinated dibenzo-p-dioxins (2,3,7,8 - TCDD) [Halogenated organic emissions to fresh water]	Mass	6,07E-21	kg	Estimated
Polycyclic aromatic hydrocarbons (PAH) [Group PAH to air]	Mass	3,58E-07	kg	(Literature)
Polycyclic aromatic hydrocarbons (PAH, unspec.) [Hydrocarbons to fresh water]	Mass	5,81E-07	kg	(Literature)
Polycyclic aromatic hydrocarbons (PAH, unspec.) [Hydrocarbons to sea water]	Mass	1,63E-08	kg	(No statement)
Populated PWB Iliad Module (E-Paper) [Flows]	Mass	2,36E-06	kg	(No statement)
Potassium (K40) [Radioactive emissions to air]	Activity	2,19E-02	Bq	(No statement)
Potassium (K40) [Radioactive emissions to fresh water]	Activity	2,84E-01	Bq	(No statement)
Potassium (K40) [Radioactive emissions to sea water]	Activity	1,39E-03	Bq	(No statement)
Potassium [Fresh water]	Mass	2,91E-04	kg	(No statement)
Potassium [Inorganic emissions to fresh water]	Mass	8,56E-05	kg	(Literature)
Potassium [Inorganic emissions to sea water]	Mass	8,63E-06	kg	(No statement)
Propane [Group NMVOC to air]	Mass	1,04E-04	kg	(Literature)
Propanol (iso-propanol; isopropanol) [Group NMVOC to air]	Mass	2,85E-05	kg	Estimated
Propene (propylene) [Group NMVOC to air]	Mass	1,73E-06	kg	(Calculated)
Propene [Hydrocarbons to fresh water]	Mass	6,18E-08	kg	(No statement)
Propionaldehyde [Group NMVOC to air]	Mass	2,58E-11	kg	(No statement)
Propionic acid (propane acid) [Group NMVOC to air]	Mass	1,29E-07	kg	(Literature)
Propylene oxide [Group NMVOC to air]	Mass	3,38E-09	kg	(No statement)
Propylene oxide [Hydrocarbons to fresh water]	Mass	8,13E-09	kg	(No statement)
Protactinium (Pa234m) [Radioactive emissions to air]	Activity	1,99E-02	Bq	(No statement)
Protactinium (Pa234m) [Radioactive emissions to fresh water]	Activity	3,69E-01	Bq	(No statement)
R 11 (trichlorofluoromethane) [Halogenated organic emissions to air]	Mass	1,20E-07	kg	(Estimated)
R 113 (trichlorofluoroethane) [Halogenated organic emissions to air]	Mass	0,00E+00	kg	(No statement)
R 114 (dichlorotetrafluoroethane) [Halogenated organic emissions to air]	Mass	1,62E-07	kg	(Estimated)
R 116 (hexafluoroethane) [Halogenated organic emissions to air]	Mass	5,06E-08	kg	Calculated
R 12 (dichlorodifluoromethane) [Halogenated organic emissions to air]	Mass	2,58E-08	kg	(Estimated)
R 124 (chlorotetrafluoroethane) [Halogenated organic emissions to air]	Mass	0,00E+00	kg	(No statement)
R 13 (chlorotrifluoromethane) [Halogenated organic emissions to air]	Mass	1,62E-08	kg	(Estimated)

Appendix 2.4
LCI Data - Web based newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
R 134a (tetrafluoroethane) [Halogenated organic emissions to air]	Mass	8,69E-08	kg	(No statement)
R 21 (Dichlorofluoromethane) [Halogenated organic emissions to air]	Mass	1,44E-16	kg	(No statement)
R 22 (chlorodifluoromethane) [Halogenated organic emissions to air]	Mass	8,92E-08	kg	(Estimated)
R 23 (trifluoromethane) [Halogenated organic emissions to air]	Mass	4,59E-14	kg	(No statement)
Radioactive emissions (general) [Radioactive emissions to air]	Activity	4,11E-02	Bq	Literature
Radioactive isotopes (unspecific) [Radioactive emissions to air]	Activity	3,26E-01	Bq	(No statement)
Radioactive isotopes (unspecific) [Radioactive emissions to fresh water]	Activity	1,37E+02	Bq	(No statement)
Radioactive tailings [Radioactive waste]	Mass	6,65E-04	kg	(Calculated)
Radium (Ra224) [Radioactive emissions to fresh water]	Activity	2,12E-01	Bq	(No statement)
Radium (Ra224) [Radioactive emissions to sea water]	Activity	1,02E-01	Bq	(No statement)
Radium (Ra226) [Radioactive emissions to air]	Activity	6,83E-01	Bq	(No statement)
Radium (Ra226) [Radioactive emissions to fresh water]	Activity	5,51E+02	Bq	(Literature)
Radium (Ra226) [Radioactive emissions to sea water]	Activity	1,76E-01	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to air]	Activity	8,83E-03	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to fresh water]	Activity	4,23E-01	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to sea water]	Activity	2,04E-01	Bq	(No statement)
Radon (Rn220) [Radioactive emissions to air]	Activity	8,33E-05	Bq	(No statement)
Radon (Rn222) [Air]	Activity	2,58E+06	Bq	(No statement)
Radon (Rn222) [Radioactive emissions to air]	Activity	7,20E+04	Bq	(Literature)
Red mud (wet) (3% NaOH) [Hazardous waste for disposal]	Mass	7,59E-04	kg	Measured
Residues for incineration [Waste for disposal]	Mass	9,79E-07	kg	(No statement)
Rolling tinder [Waste for recovery]	Mass	5,04E-04	kg	Calculated
Rubidium [Inorganic emissions to fresh water]	Mass	7,69E-08	kg	(No statement)
Ruthenium (Ru103) [Radioactive emissions to air]	Activity	8,35E-10	Bq	(No statement)
Ruthenium (Ru103) [Radioactive emissions to fresh water]	Activity	8,12E-07	Bq	(No statement)
Ruthenium (Ru106) [Radioactive emissions to fresh water]	Activity	1,92E-02	Bq	Calculated
Scandium [Fresh water]	Mass	1,06E-07	kg	(No statement)
Scandium [Inorganic emissions to air]	Mass	5,69E-10	kg	(Estimated)
Scandium [Inorganic emissions to fresh water]	Mass	2,60E-08	kg	(No statement)
Selenium [Fresh water]	Mass	1,06E-07	kg	(No statement)
Selenium [Heavy metals to air]	Mass	7,70E-07	kg	(Literature)
Selenium [Heavy metals to fresh water]	Mass	2,67E-07	kg	(Literature)
Selenium [Heavy metals to sea water]	Mass	6,29E-10	kg	(No statement)
Sewage sludge (waste water processing) [Hazardous waste]	Mass	2,18E-04	kg	Calculated
Silicium tetrafluoride [Inorganic emissions to air]	Mass	2,95E-11	kg	(No statement)
Silicon dioxide (silica) [Particles to air]	Mass	0,00E+00	kg	Estimated
Silicon dioxide (silica) [Particles to fresh water]	Mass	0,00E+00	kg	Estimated
Silver (Ag110m) [Radioactive emissions to air]	Activity	8,28E-09	Bq	(No statement)
Silver (Ag110m) [Radioactive emissions to fresh water]	Activity	1,99E-01	Bq	(Literature)
Silver [Fresh water]	Mass	3,46E-10	kg	(No statement)
Silver [Heavy metals to agricultural soil]	Mass	1,42E-11	kg	(No statement)
Silver [Heavy metals to air]	Mass	1,04E-12	kg	(No statement)
Silver [Heavy metals to fresh water]	Mass	7,27E-09	kg	(Literature)
Silver [Heavy metals to sea water]	Mass	1,22E-09	kg	(No statement)

Appendix 2.4
LCI Data - Web based newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Slag (Iron plate production) [Waste for recovery]	Mass	5,09E-03	kg	(Measured)
Slag (Mo-containing) [Waste for recovery]	Mass	2,82E-08	kg	Estimated
Slag [Hazardous waste]	Mass	5,13E-04	kg	(Literature)
Slag [Waste for recovery]	Mass	9,19E-04	kg	(Literature)
Sludge [Hazardous waste]	Mass	3,40E-03	kg	(Calculated)
Sludge from water works (6% dry matter-content) [Waste for disposal]	Mass	1,43E-08	kg	(No statement)
Sodium (Na24) [Radioactive emissions to fresh water]	Activity	2,91E-05	Bq	(No statement)
Sodium [Fresh water]	Mass	1,21E-04	kg	(No statement)
Sodium [Inorganic emissions to fresh water]	Mass	1,44E-02	kg	(Literature)
Sodium [Inorganic emissions to sea water]	Mass	6,24E-04	kg	(No statement)
Sodium chlorate [high population density]	Mass	2,13E-09	kg	(No statement)
Sodium chloride (rock salt) [Inorganic intermediate products]	Mass	1,84E-05	kg	Calculated
Sodium dichromate [high population density]	Mass	2,31E-08	kg	(No statement)
Sodium formate [high population density]	Mass	2,10E-11	kg	(No statement)
Sodium formate [Hydrocarbons to fresh water]	Mass	5,05E-11	kg	(No statement)
Sodium hypochlorite [Inorganic emissions to fresh water]	Mass	5,12E-08	kg	(Estimated)
Solder paste waste [Hazardous waste for recovery]	Mass	2,33E-05	kg	Estimated
Solids (dissolved) [Analytical measures to fresh water]	Mass	1,15E-03	kg	(Literature)
Solids (suspended) [Fresh water]	Mass	5,29E-03	kg	(No statement)
Solids (suspended) [Particles to fresh water]	Mass	1,55E-03	kg	(Estimated)
Solids (suspended) [Particles to sea water]	Mass	2,10E-04	kg	(No statement)
Spoil [Stockpile goods] *Not followed to the grave*	Mass	1,68E-10	kg	Calculated
Steam [Inorganic emissions to air]	Mass	2,18E+00	kg	(Estimated)
Steel works slag [Waste for recovery]	Mass	2,63E-03	kg	Calculated
Strontium (Sr89) [Radioactive emissions to fresh water]	Activity	8,56E-03	Bq	(No statement)
Strontium (Sr90) [Radioactive emissions to fresh water]	Activity	4,31E+00	Bq	(Literature)
Strontium (Sr90) [Radioactive emissions to sea water]	Activity	2,91E+00	Bq	(No statement)
Strontium [Fresh water]	Mass	1,19E-05	kg	(No statement)
Strontium [Heavy metals to agricultural soil]	Mass	2,08E-10	kg	(No statement)
Strontium [Heavy metals to fresh water]	Mass	3,08E-05	kg	(Literature)
Strontium [Heavy metals to industrial soil]	Mass	3,64E-08	kg	(No statement)
Strontium [Heavy metals to sea water]	Mass	1,23E-05	kg	(No statement)
Strontium [Inorganic emissions to air]	Mass	5,20E-08	kg	(Estimated)
Styrene [Group NMVOC to air]	Mass	2,85E-10	kg	(No statement)
Sulphate [Fresh water]	Mass	1,76E-03	kg	(No statement)
Sulphate [Inorganic emissions to fresh water]	Mass	8,76E-03	kg	(Literature)
Sulphate [Inorganic emissions to sea water]	Mass	2,33E-05	kg	(No statement)
Sulphide [Inorganic emissions to fresh water]	Mass	1,49E-07	kg	(Literature)
Sulphide [Inorganic emissions to sea water]	Mass	3,35E-08	kg	(No statement)
Sulphite [Inorganic emissions to fresh water]	Mass	5,20E-06	kg	(Literature)
Sulphur [Inorganic emissions to agricultural soil]	Mass	2,07E-05	kg	(No statement)
Sulphur [Inorganic emissions to fresh water]	Mass	1,13E-06	kg	(No statement)
Sulphur [Inorganic emissions to industrial soil]	Mass	2,18E-06	kg	(No statement)
Sulphur [Inorganic emissions to sea water]	Mass	3,02E-08	kg	(No statement)
Sulphur dioxide [Inorganic emissions to air]	Mass	2,62E-02	kg	(Literature)
Sulphur hexafluoride [Inorganic emissions to air]	Mass	8,52E-07	kg	(Literature)
Sulphuric acid [Inorganic emissions to air]	Mass	8,43E-08	kg	(Calculated)
Tailings [Stockpile goods] *Not followed to the grave*	Mass	3,44E-01	kg	(Literature)
Tebutam [Pesticides to agricultural soil]	Mass	7,50E-11	kg	(No statement)
Technetium (Tc99m) [Radioactive emissions to fresh water]	Activity	8,87E-05	Bq	(No statement)

Appendix 2.4
LCI Data - Web based newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Teflubenzuron [Pesticides to agricultural soil]	Mass	6,95E-12	kg	(No statement)
Tellurium (Te123m) [Radioactive emissions to fresh water]	Activity	7,02E-03	Bq	(No statement)
Tellurium (Te132) [Radioactive emissions to fresh water]	Activity	2,23E-07	Bq	(No statement)
Tetrafluoromethane [Halogenated organic emissions to air]	Mass	4,79E-07	kg	Measured
Thallium [Fresh water]	Mass	1,82E-08	kg	(No statement)
Thallium [Heavy metals to air]	Mass	3,31E-09	kg	(Calculated)
Thallium [Heavy metals to fresh water]	Mass	9,85E-09	kg	(Measured)
Thorium (Th228) [Radioactive emissions to air]	Activity	2,30E-03	Bq	(No statement)
Thorium (Th228) [Radioactive emissions to fresh water]	Activity	8,46E-01	Bq	(No statement)
Thorium (Th228) [Radioactive emissions to sea water]	Activity	4,08E-01	Bq	(No statement)
Thorium (Th230) [Radioactive emissions to air]	Activity	2,26E+01	Bq	(No statement)
Thorium (Th230) [Radioactive emissions to fresh water]	Activity	5,03E+01	Bq	(No statement)
Thorium (Th232) [Radioactive emissions to air]	Activity	3,25E-03	Bq	(No statement)
Thorium (Th232) [Radioactive emissions to fresh water]	Activity	5,30E-02	Bq	(No statement)
Thorium (Th234) [Radioactive emissions to air]	Activity	1,99E-02	Bq	(No statement)
Thorium (Th234) [Radioactive emissions to fresh water]	Activity	3,69E-01	Bq	(No statement)
Tin [Fresh water]	Mass	5,93E-06	kg	(No statement)
Tin [Heavy metals to agricultural soil]	Mass	8,22E-09	kg	(No statement)
Tin [Heavy metals to air]	Mass	2,56E-07	kg	(Calculated)
Tin [Heavy metals to fresh water]	Mass	3,14E-08	kg	(Literature)
Titanium [Heavy metals to agricultural soil]	Mass	2,15E-06	kg	(No statement)
Titanium [Heavy metals to air]	Mass	2,58E-07	kg	(Estimated)
Titanium [Heavy metals to fresh water]	Mass	6,61E-07	kg	(Literature)
Titanium [Heavy metals to sea water]	Mass	3,75E-10	kg	(No statement)
Toluene (methyl benzene) [Group NMVOC to air]	Mass	1,24E-05	kg	(Literature)
Toluene (methyl benzene) [Hydrocarbons to fresh water]	Mass	9,25E-07	kg	(Literature)
Toluene (methyl benzene) [Hydrocarbons to sea water]	Mass	2,94E-07	kg	(No statement)
Top Cover (E-Paper) [Flows]	Mass	1,27E-01	kg	(No statement)
Total dissolved organic bounded carbon [Analytical measures to fresh water]	Mass	5,36E-04	kg	(Estimated)
Total dissolved organic bounded carbon [Analytical measures to sea water]	Mass	7,23E-05	kg	(No statement)
Total organic bounded carbon [Analytical measures to fresh water]	Mass	1,06E-03	kg	(Measured)
Total organic bounded carbon [Analytical measures to sea water]	Mass	7,23E-05	kg	(No statement)
Total organic carbon, TOC (Ecoinvent) [Fresh water]	Mass	4,51E-04	kg	(No statement)
Treatment residue (mineral) [Stockpile goods]	Mass	6,83E-04	kg	(Calculated)
Tributyltinoxide [Pesticides to sea water]	Mass	4,12E-08	kg	(No statement)
Trichloromethane (chloroform) [Halogenated organic emissions to air]	Mass	1,54E-09	kg	(No statement)
Trichloromethane (chloroform) [Halogenated organic emissions to fresh water]	Mass	1,44E-16	kg	(No statement)
Triethylene glycol [Hydrocarbons to sea water]	Mass	2,60E-08	kg	(No statement)
Tungsten [Fresh water]	Mass	7,93E-08	kg	(No statement)
Tungsten [Heavy metals to fresh water]	Mass	5,42E-08	kg	(No statement)
Uranium (total) [Radioactive emissions to air]	Activity	1,12E+00	Bq	(Literature)
Uranium (U234) [Radioactive emissions to air]	Activity	2,78E-01	Bq	(Literature)
Uranium (U234) [Radioactive emissions to fresh water]	Activity	4,42E-01	Bq	(No statement)
Uranium (U235) [Radioactive emissions to air]	Activity	1,35E-02	Bq	(Literature)
Uranium (U235) [Radioactive emissions to fresh water]	Activity	7,30E-01	Bq	(No statement)
Uranium (U238) [Radioactive emissions to air]	Activity	6,05E-01	Bq	(Literature)

Appendix 2.4
LCI Data - Web based newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Uranium (U238) [Radioactive emissions to fresh water]	Activity	1,22E+00	Bq	(No statement)
Uranium (U238) [Radioactive emissions to sea water]	Activity	5,88E-03	Bq	(No statement)
Uranium [Radioactive emissions to fresh water]	Activity	2,72E+01	Bq	(Literature)
Uranium depleted [Radioactive waste]	Mass	1,31E-05	kg	(Calculated)
Uranium spent as residue [Radioactive waste]	Mass	1,04E-09	kg	(Calculated)
Used air [Other emissions to air]	Mass	7,59E-01	kg	(Measured)
Used oil [Hazardous waste for recovery]	Mass	1,18E-12	kg	(Literature)
Vanadium [Fresh water]	Mass	1,94E-06	kg	(No statement)
Vanadium [Heavy metals to agricultural soil]	Mass	6,16E-08	kg	(No statement)
Vanadium [Heavy metals to air]	Mass	3,39E-06	kg	(Literature)
Vanadium [Heavy metals to fresh water]	Mass	9,37E-07	kg	(Literature)
Vanadium [Heavy metals to sea water]	Mass	1,25E-09	kg	(No statement)
Waste heat [Fresh water]	Energy	4,23E-03	MJ	(No statement)
Waste heat [Other emissions to air]	Energy	7,58E+01	MJ	(Measured)
Waste heat [Other emissions to fresh water]	Energy	4,81E+00	MJ	(Measured)
Waste paper [Waste for recovery]	Mass	1,14E-06	kg	Measured
Waste radioactive [Radioactive waste]	Mass	1,10E-05	kg	(Literature)
Waste water [Other emissions to fresh water]	Mass	4,30E+03	kg	(Literature)
Waste water processing residue [Hazardous waste for recovery]	Mass	3,75E-02	kg	Literature
Wave solder dross [Hazardous waste for recovery]	Mass	9,10E-05	kg	Estimated
Vinyl chloride (VCM; chloroethene) [Halogenated organic emissions to air]	Mass	1,13E-07	kg	Calculated
Vinyl chloride (VCM; chloroethene) [Halogenated organic emissions to fresh water]	Mass	4,92E-10	kg	(No statement)
VOC (unspecified) [Organic emissions to air (group VOC)]	Mass	1,06E-04	kg	(Literature)
VOC [Organic emissions to fresh water]	Mass	2,41E-06	kg	(No statement)
VOC [Organic emissions to sea water]	Mass	7,13E-07	kg	(No statement)
Volatile fission products (inert gases;iodine;C14) [Radioactive waste]	Mass	4,25E-10	kg	(Estimated)
Xenon (Xe131m) [Radioactive emissions to air]	Activity	9,28E-01	Bq	(Literature)
Xenon (Xe133) [Radioactive emissions to air]	Activity	1,35E+02	Bq	(Literature)
Xenon (Xe133m) [Radioactive emissions to air]	Activity	1,24E+00	Bq	(Literature)
Xenon (Xe135) [Radioactive emissions to air]	Activity	4,87E+01	Bq	(Literature)
Xenon (Xe135m) [Radioactive emissions to air]	Activity	1,14E+01	Bq	(Literature)
Xenon (Xe137) [Radioactive emissions to air]	Activity	3,27E-02	Bq	(Literature)
Xenon (Xe138) [Radioactive emissions to air]	Activity	2,58E+00	Bq	(Literature)
Xylene (dimethyl benzene) [Group NMVOC to air]	Mass	6,73E-05	kg	(Calculated)
Xylene (isomers; dimethyl benzene) [Hydrocarbons to fresh water]	Mass	3,80E-06	kg	(Literature)
Xylene (isomers; dimethyl benzene) [Hydrocarbons to sea water]	Mass	2,43E-07	kg	(No statement)
Xylene (meta-Xylene; 1,3-Dimethylbenzene) [Group NMVOC to air]	Mass	1,42E-06	kg	(No statement)
Zinc (Zn65) [Radioactive emissions to air]	Activity	1,60E-07	Bq	(No statement)
Zinc (Zn65) [Radioactive emissions to fresh water]	Activity	3,95E-04	Bq	(No statement)
Zinc [Fresh water]	Mass	9,74E-06	kg	(No statement)
Zinc [Heavy metals to agricultural soil]	Mass	3,39E-06	kg	(No statement)
Zinc [Heavy metals to air]	Mass	1,14E-05	kg	(Literature)
Zinc [Heavy metals to fresh water]	Mass	4,93E-06	kg	(Literature)
Zinc [Heavy metals to industrial soil]	Mass	2,47E-06	kg	Measured
Zinc [Heavy metals to sea water]	Mass	2,98E-06	kg	(No statement)
Zinc sulphate [Inorganic emissions to air]	Mass	1,20E-08	kg	Measured

Appendix 2.4
LCI Data - Web based newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Zirconium (Zr) [Air]	Mass	3,86E-11	kg	(No statement)
Zirconium (Zr95) [Radioactive emissions to air]	Activity	1,56E-07	Bq	(No statement)
Zirconium (Zr95) [Radioactive emissions to fresh water]	Activity	4,57E-06	Bq	(No statement)

Appendix 2.5 LCI Data - Web based newspaper with print-out, European scenario

In the tables below the LCI data for the studied system "Web based newspaper with print-out, European scenario" are presented. The data are divided as inputs to the system and outputs from the system.

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Additives [STFI-PF import] *Not followed to the cradle*	Mass	1,15E-03	kg	Literature
Air [Operating materials]	Mass	3,64E-17	kg	Estimated
Air [Renewable resources]	Mass	1,36E+01	kg	(Calculated)
Aluminum [Non renewable elements]	Mass	2,17E-02	kg	(No statement)
Antimonite [Non renewable resources]	Mass	6,64E-10	kg	(No statement)
Barium sulphate [Non renewable resources]	Mass	5,14E-02	kg	(No statement)
Basalt [Non renewable resources]	Mass	2,91E-03	kg	(No statement)
Bauxite [Non renewable resources]	Mass	1,07E-02	kg	Calculated
Bentonite [Non renewable resources]	Mass	1,13E-02	kg	(Literature)
Blast furnace dust [Organic intermediate products]	Mass	1,77E-11	kg	Calculated
Borax [Non renewable resources]	Mass	9,67E-07	kg	(No statement)
Calcium chloride [Non renewable resources]	Mass	7,94E-12	kg	Literature
Carbon dioxide [Renewable resources]	Mass	9,85E+00	kg	Calculated
Catalyst [Operating materials]	Mass	3,34E-07	kg	Calculated
Chromium [Non renewable elements]	Mass	1,91E-03	kg	(No statement)
Chrysotile [Non renewable resources]	Mass	3,84E-06	kg	(No statement)
Cinnabar [Non renewable resources]	Mass	3,52E-07	kg	(No statement)
Circuit material (Fe carrier) [Metals]	Mass	3,86E-09	kg	Calculated
Clay [Non renewable resources]	Mass	1,80E-01	kg	(No statement)
Cobalt [Non renewable elements]	Mass	9,49E-08	kg	(No statement)
Colemanite ore [Non renewable resources]	Mass	1,95E-04	kg	Calculated
Cooling water [Operating materials]	Mass	9,10E+01	kg	(Measured)
Copper [Non renewable elements] *Not followed to the grave*	Mass	3,02E-03	kg	(No statement)
Copper ore (0.14%) [Non renewable resources]	Mass	2,60E+00	kg	Measured
Copper ore (0.3%) [Non renewable resources]	Mass	1,06E-08	kg	Estimated
Crude oil [Crude oil (resource)]	Mass	1,01E+01	kg	(Literature)
Crude oil Algeria [Crude oil (resource)]	Mass	1,07E-02	kg	(Literature)
Crude oil Angola [Crude oil (resource)]	Mass	4,40E-03	kg	(Estimated)
Crude oil Argentina [Crude oil (resource)]	Mass	7,63E-06	kg	Literature
Crude oil Australia [Crude oil (resource)]	Mass	2,93E-04	kg	(Estimated)
Crude oil Brazil [Crude oil (resource)]	Mass	1,65E-04	kg	Literature
Crude oil Cameroon [Crude oil (resource)]	Mass	9,18E-04	kg	(Estimated)
Crude oil Canada [Crude oil (resource)]	Mass	4,33E-03	kg	(Literature)
Crude oil Central Africa [Crude oil (resource)]	Mass	7,70E-05	kg	(Calculated)
Crude oil Central America [Crude oil (resource)]	Mass	4,82E-05	kg	(Calculated)
Crude oil China [Crude oil (resource)]	Mass	2,22E-02	kg	(Calculated)
Crude oil CIS [Crude oil (resource)]	Mass	4,37E-02	kg	(Literature)
Crude oil Colombia [Crude oil (resource)]	Mass	1,68E-06	kg	(Literature)
Crude oil Denmark [Crude oil (resource)]	Mass	2,28E-04	kg	(Literature)
Crude oil Egypt [Crude oil (resource)]	Mass	1,94E-03	kg	(Estimated)
Crude oil France [Crude oil (resource)]	Mass	2,02E-04	kg	(Literature)
Crude oil free wellhead [Crude oil (resource)]	Mass	1,94E-03	kg	Literature
Crude oil Gabon [Crude oil (resource)]	Mass	6,81E-05	kg	(Estimated)

Appendix 2.5
LCI Data - Web based newspaper with print-out, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Crude oil Germany [Crude oil (resource)]	Mass	5,40E-03	kg	(Literature)
Crude oil Indonesia [Crude oil (resource)]	Mass	8,36E-05	kg	(Estimated)
Crude oil Iran [Crude oil (resource)]	Mass	1,29E-02	kg	(Estimated)
Crude oil Italy [Crude oil (resource)]	Mass	2,05E-03	kg	(Literature)
Crude oil Kuwait [Crude oil (resource)]	Mass	4,23E-03	kg	(Estimated)
Crude oil Libya [Crude oil (resource)]	Mass	3,04E-02	kg	(Literature)
Crude oil Mexico [Crude oil (resource)]	Mass	5,20E-04	kg	(Literature)
Crude oil Middle East [Crude oil (resource)]	Mass	2,65E-04	kg	(Calculated)
Crude oil Netherlands [Crude oil (resource)]	Mass	1,33E-03	kg	(Literature)
Crude oil New Zealand [Crude oil (resource)]	Mass	1,02E-05	kg	(Estimated)
Crude oil Nigeria [Crude oil (resource)]	Mass	1,09E-02	kg	(Estimated)
Crude oil North Africa [Crude oil (resource)]	Mass	1,15E-04	kg	(Calculated)
Crude oil Norway [Crude oil (resource)]	Mass	4,53E-02	kg	(Literature)
Crude oil Oman [Crude oil (resource)]	Mass	1,17E-03	kg	(Estimated)
Crude oil Qatar [Crude oil (resource)]	Mass	3,92E-05	kg	(Estimated)
Crude oil Saudi Arabia [Crude oil (resource)]	Mass	2,87E-02	kg	(Estimated)
Crude oil Tunisia [Crude oil (resource)]	Mass	6,75E-05	kg	(Literature)
Crude oil United Arab Emirates [Crude oil (resource)]	Mass	5,06E-05	kg	(Estimated)
Crude oil United Kingdom [Crude oil (resource)]	Mass	4,15E-02	kg	(Literature)
Crude oil USA [Crude oil (resource)]	Mass	4,74E-05	kg	(Literature)
Crude oil Venezuela [Crude oil (resource)]	Mass	8,54E-03	kg	(Literature)
Diatomite [Non renewable resources]	Mass	6,39E-09	kg	(No statement)
Dolomite [Non renewable resources]	Mass	1,29E-03	kg	(Literature)
Energy, calorific value, in organic substance [biotic]	Energy ren.	1,08E+02	MJ	(No statement)
Feldspar (aluminum silicates) [Non renewable resources]	Mass	2,59E-09	kg	(No statement)
Fluorine [Non renewable elements]	Mass	9,97E-05	kg	(No statement)
Fluorspar (calcium fluoride; fluorite) [Non renewable resources]	Mass	2,81E-03	kg	Calculated
Granite [Non renewable resources]	Mass	1,98E-05	kg	(No statement)
Gypsum (natural gypsum) [Non renewable resources]	Mass	1,22E-05	kg	(No statement)
Hard coal [Hard coal (resource)]	Mass	1,97E+00	kg	(Literature)
Hard coal Australia [Hard coal (resource)]	Mass	5,54E-03	kg	(Calculated)
Hard coal Belgium [Hard coal (resource)]	Mass	3,94E-04	kg	(Calculated)
Hard coal Brazil [Hard coal (resource)]	Mass	3,64E-05	kg	(Estimated)
Hard coal Canada [Hard coal (resource)]	Mass	2,32E-03	kg	(Calculated)
Hard coal China [Hard coal (resource)]	Mass	4,11E-01	kg	(Calculated)
Hard coal CIS [Hard coal (resource)]	Mass	2,54E-03	kg	(Calculated)
Hard coal Colombia [Hard coal (resource)]	Mass	4,79E-03	kg	(Measured)
Hard coal Czech Republic [Hard coal (resource)]	Mass	2,38E-03	kg	(Measured)
Hard coal France [Hard coal (resource)]	Mass	4,84E-03	kg	(Calculated)
Hard coal Germany [Hard coal (resource)]	Mass	6,94E-02	kg	(Calculated)
Hard coal Indonesia [Hard coal (resource)]	Mass	3,09E-03	kg	(Measured)
Hard coal Japan [Hard coal (resource)]	Mass	3,81E-06	kg	(Calculated)
Hard coal Poland [Hard coal (resource)]	Mass	1,00E-02	kg	(Calculated)
Hard coal Portugal [Hard coal (resource)]	Mass	7,13E-05	kg	(Estimated)
Hard coal South Africa [Hard coal (resource)]	Mass	4,78E-02	kg	(Measured)
Hard coal Spain [Hard coal (resource)]	Mass	9,46E-03	kg	(Calculated)
Hard coal United Kingdom [Hard coal (resource)]	Mass	1,32E-03	kg	(Calculated)
Hard coal USA [Hard coal (resource)]	Mass	2,84E-02	kg	(Calculated)
Hard coal Venezuela [Hard coal (resource)]	Mass	5,33E-03	kg	(Measured)
Heavy spar (barytes) [Non renewable resources]	Mass	2,70E-03	kg	(Literature)
Inert rock [Non renewable resources]	Mass	3,55E+00	kg	(Literature)

Appendix 2.5
LCI Data - Web based newspaper with print-out, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Infrastructure telecommunication [Flows] *Not followed to the cradle*	Number of pieces	1,07E-01	pcs.	Estimated
Iron [Non renewable elements]	Mass	6,24E-01	kg	(Literature)
Iron ore (65%) [Non renewable resources]	Mass	1,20E-04	kg	(Estimated)
Iron ore [Non renewable resources]	Mass	1,48E-01	kg	(Calculated)
Kaolin ore [Non renewable resources]	Mass	2,23E-03	kg	Measured
Kaolinite (24% in ore as mined) [Non renewable resources]	Mass	6,21E-01	kg	(No statement)
Kieserite (25% in ore as mined) [Non renewable resources]	Mass	1,07E-02	kg	(No statement)
Lead - zinc ore (4.6%-0.6%) [Non renewable resources]	Mass	9,54E-03	kg	Calculated
Lead [Non renewable elements]	Mass	5,87E-02	kg	(No statement)
Lead ore [Non renewable resources]	Mass	1,79E-04	kg	Estimated
Lignite [Lignite (resource)]	Mass	2,77E+00	kg	(Literature)
Lignite Australia [Lignite (resource)]	Mass	3,74E-05	kg	Literature
Lignite Australia [Lignite (resource)]	Mass	3,71E-04	kg	Literature
Lignite Austria [Lignite (resource)]	Mass	4,90E-07	kg	(Estimated)
Lignite France [Lignite (resource)]	Mass	5,86E-07	kg	Calculated
Lignite Germany (Lausitz) [Lignite (resource)]	Mass	4,30E-05	kg	Calculated
Lignite Germany (Rheinisch) [Lignite (resource)]	Mass	5,32E-03	kg	(Calculated)
Lignite Germany [Lignite (resource)]	Mass	2,05E-01	kg	(Literature)
Lignite Greece [Lignite (resource)]	Mass	8,96E-02	kg	Literature
Lignite Spain [Lignite (resource)]	Mass	1,80E-02	kg	(Literature)
Lignite USA [Lignite (resource)]	Mass	5,30E-05	kg	Literature
Limestone (calcium carbonate) [Non renewable resources]	Mass	1,09E+00	kg	(Literature)
Magnesit (Magnesium carbonate) [Non renewable resources]	Mass	7,95E-03	kg	(No statement)
Magnesium [Non renewable elements]	Mass	3,53E-07	kg	(No statement)
Manganese [Non renewable elements]	Mass	4,00E-04	kg	(No statement)
Manganese ore (R.O.M.) [Non renewable resources]	Mass	7,75E-04	kg	Calculated
Molybdenite (Mo 0,24%) [Non renewable resources]	Mass	2,39E-05	kg	Estimated
Molybdenum [Non renewable elements]	Mass	4,66E-04	kg	(No statement)
Natural Aggregate [Non renewable resources]	Mass	1,41E+01	kg	Calculated
Natural gas [Natural gas (resource)]	Mass	1,91E+00	kg	(Literature)
Natural gas Algeria [Natural gas (resource)]	Mass	6,18E-03	kg	(Literature)
Natural gas Angola [Natural gas (resource)]	Mass	3,57E-04	kg	(Estimated)
Natural gas Argentina [Natural gas (resource)]	Mass	2,50E-07	kg	Literature
Natural gas Australia [Natural gas (resource)]	Mass	1,17E-04	kg	(Estimated)
Natural gas Brazil [Natural gas (resource)]	Mass	4,15E-05	kg	(Estimated)
Natural gas Brunei [Natural gas (resource)]	Mass	4,32E-06	kg	Estimated
Natural gas Cameroon [Natural gas (resource)]	Mass	7,45E-05	kg	(Estimated)
Natural gas Canada [Natural gas (resource)]	Mass	1,10E-04	kg	(Literature)
Natural gas China [Natural gas (resource)]	Mass	1,26E-03	kg	(Calculated)
Natural gas CIS [Natural gas (resource)]	Mass	7,40E-02	kg	(Literature)
Natural gas Colombia [Natural gas (resource)]	Mass	6,38E-08	kg	(Literature)
Natural gas Denmark [Natural gas (resource)]	Mass	1,97E-03	kg	(Estimated)
Natural gas Egypt [Natural gas (resource)]	Mass	1,57E-04	kg	(Estimated)
Natural gas France [Natural gas (resource)]	Mass	1,82E-04	kg	(Estimated)
Natural gas Gabon [Natural gas (resource)]	Mass	5,65E-06	kg	(Estimated)
Natural gas Germany [Natural gas (resource)]	Mass	3,93E-02	kg	(Literature)
Natural gas Indonesia [Natural gas (resource)]	Mass	2,12E-05	kg	(Estimated)
Natural gas Iran [Natural gas (resource)]	Mass	4,83E-04	kg	(Estimated)
Natural gas Italy [Natural gas (resource)]	Mass	3,03E-03	kg	(Literature)

Appendix 2.5
LCI Data - Web based newspaper with print-out, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Natural gas Japan [Natural gas (resource)]	Mass	1,23E-06	kg	Estimated
Natural gas Kuwait [Natural gas (resource)]	Mass	1,58E-04	kg	(Estimated)
Natural gas Libyan [Natural gas (resource)]	Mass	2,70E-03	kg	(Literature)
Natural gas Malaysia [Natural gas (resource)]	Mass	6,11E-06	kg	Estimated
Natural gas Mexico [Natural gas (resource)]	Mass	1,71E-05	kg	(Literature)
Natural gas Netherlands [Natural gas (resource)]	Mass	1,31E-01	kg	(Literature)
Natural gas New Zealand [Natural gas (resource)]	Mass	2,25E-07	kg	(Estimated)
Natural gas Nigeria [Natural gas (resource)]	Mass	8,81E-04	kg	(Estimated)
Natural gas Norway [Natural gas (resource)]	Mass	4,72E-02	kg	(Literature)
Natural gas Oman [Natural gas (resource)]	Mass	4,37E-05	kg	(Estimated)
Natural gas Qatar [Natural gas (resource)]	Mass	1,47E-06	kg	(Estimated)
Natural gas Saudi Arabia [Natural gas (resource)]	Mass	1,07E-03	kg	(Estimated)
Natural gas Spain [Natural gas (resource)]	Mass	5,40E-05	kg	(Estimated)
Natural gas Tunisia [Natural gas (resource)]	Mass	5,48E-06	kg	(Literature)
Natural gas United Arab Emirates [Natural gas (resource)]	Mass	4,98E-06	kg	(Estimated)
Natural gas United Kingdom [Natural gas (resource)]	Mass	2,50E-03	kg	(Calculated)
Natural gas USA [Natural gas (resource)]	Mass	1,44E-04	kg	(Estimated)
Natural gas Venezuela [Natural gas (resource)]	Mass	5,03E-04	kg	(Literature)
Nickel [Non renewable elements]	Mass	8,88E-03	kg	(No statement)
Nickel ore (1.6%) [Non renewable resources]	Mass	7,27E-03	kg	Measured
Nitrogen [Renewable resources]	Mass	5,15E-07	kg	(Literature)
Occupation, arable, non-irrigated [Hemerobie ecoinvent]	Areatime	3,56E-01	m2*yr	(No statement)
Occupation, construction site [Hemerobie ecoinvent]	Areatime	2,44E-03	m2*yr	(No statement)
Occupation, dump site [Hemerobie ecoinvent]	Areatime	2,15E-02	m2*yr	(No statement)
Occupation, dump site, benthos [Hemerobie ecoinvent]	Areatime	3,95E-03	m2*yr	(No statement)
Occupation, forest, intensive [Hemerobie ecoinvent]	Areatime	7,66E+00	m2*yr	(No statement)
Occupation, forest, intensive, normal [Hemerobie ecoinvent]	Areatime	4,90E+00	m2*yr	(No statement)
Occupation, industrial area [Hemerobie ecoinvent]	Areatime	6,93E-02	m2*yr	(No statement)
Occupation, industrial area, benthos [Hemerobie ecoinvent]	Areatime	3,15E-05	m2*yr	(No statement)
Occupation, industrial area, built up [Hemerobie ecoinvent]	Areatime	6,38E-03	m2*yr	(No statement)
Occupation, industrial area, vegetation [Hemerobie ecoinvent]	Areatime	4,25E-03	m2*yr	(No statement)
Occupation, mineral extraction site [Hemerobie ecoinvent]	Areatime	1,61E-02	m2*yr	(No statement)
Occupation, permanent crop, fruit, intensive [Hemerobie ecoinvent]	Areatime	7,15E-02	m2*yr	(No statement)
Occupation, shrub land, sclerophyllous [Hemerobie ecoinvent]	Areatime	8,71E-04	m2*yr	(No statement)
Occupation, traffic area, rail embankment [Hemerobie ecoinvent]	Areatime	2,03E-03	m2*yr	(No statement)
Occupation, traffic area, rail network [Hemerobie ecoinvent]	Areatime	2,24E-03	m2*yr	(No statement)
Occupation, traffic area, road embankment [Hemerobie ecoinvent]	Areatime	1,90E-01	m2*yr	(No statement)
Occupation, traffic area, road network [Hemerobie ecoinvent]	Areatime	1,25E-01	m2*yr	(No statement)
Occupation, urban, discontinuously built [Hemerobie ecoinvent]	Areatime	1,08E-03	m2*yr	(No statement)
Occupation, water bodies, artificial [Hemerobie ecoinvent]	Areatime	1,15E-01	m2*yr	(No statement)
Occupation, water courses, artificial [Hemerobie ecoinvent]	Areatime	1,06E-02	m2*yr	(No statement)

Appendix 2.5
LCI Data - Web based newspaper with print-out, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Olivine [Non renewable resources]	Mass	1,50E-07	kg	(No statement)
Palladium [Non renewable elements]	Mass	4,01E-08	kg	(No statement)
Peat [Renewable resources]	Mass	-1,59E-02	kg	(No statement)
Phosphorus [Non renewable elements]	Mass	3,96E-04	kg	(No statement)
Phosphorus minerals [Non renewable resources]	Mass	2,08E-07	kg	Literature
Pit gas [Natural gas (resource)]	Mass	2,44E-02	kg	(Literature)
Platinum [Non renewable elements]	Mass	1,34E-09	kg	(No statement)
Potassium chloride [Non renewable resources]	Mass	7,32E-06	kg	Calculated
Precious metal ore (R.O.M) [Non renewable resources]	Mass	1,67E-01	kg	Calculated
Primary energy from hydro power (BUWAL) [Renewable energy resources]	Energy ren.	-1,85E-04	MJ	Literature
Primary energy from hydro power [Renewable energy resources]	Energy ren.	1,19E+01	MJ	(Literature)
Primary energy from solar energy [Renewable energy resources]	Energy ren.	4,50E-02	MJ	Literature
Primary energy from wind power [Renewable energy resources]	Energy ren.	1,79E+00	MJ	Calculated
Process and cooling water [Operating materials]	Mass	2,93E-09	kg	Literature
Process water [Operating materials]	Mass	1,83E+01	kg	(Measured)
Quartz sand (silica sand; silicon dioxide) [Non renewable resources]	Mass	4,63E-03	kg	(Literature)
Raw brown coal (BUWAL) [Lignite (resource)]	Mass	1,78E-05	kg	Literature
Raw hard coal (BUWAL) [Hard coal (resource)]	Mass	1,33E-05	kg	Literature
Raw natural gas (BUWAL) [Natural gas (resource)]	Mass	7,71E-05	kg	Literature
Refractory [Minerals]	Mass	1,45E-12	kg	Measured
Renewable fuels [Renewable energy resources]	Mass	1,07E-06	kg	Calculated
Rhenium [Non renewable elements]	Mass	3,38E-10	kg	(No statement)
Rhodium [Non renewable elements]	Mass	1,11E-09	kg	(No statement)
Rutile (titanium ore) [Non renewable resources]	Mass	2,47E-09	kg	(No statement)
sand [Non renewable resources]	Mass	2,60E-06	kg	(No statement)
Silver [Non renewable elements]	Mass	1,20E-08	kg	(No statement)
Slate [Non renewable resources]	Mass	1,20E-06	kg	(No statement)
Sodium chloride (rock salt) [Non renewable resources]	Mass	2,67E-01	kg	(Literature)
Sodium sulphate [Non renewable resources]	Mass	8,66E-04	kg	Literature
Soil [Non renewable resources]	Mass	6,01E-03	kg	(Calculated)
Steel scrap (St) [Waste for recovery]	Mass	9,48E-03	kg	Calculated
Sulphite [Inorganic emissions to sea water]	Mass	1,48E-15	kg	(No statement)
Sulphur (bonded) [Non renewable resources]	Mass	5,47E-08	kg	(Literature)
Sulphur [Non renewable elements]	Mass	-9,53E-06	kg	(Literature)
Sylvite (25% in Sylvinite) [Non renewable resources]	Mass	4,90E-03	kg	(No statement)
Talc [Non renewable resources]	Mass	-2,15E-02	kg	Calculated
Tin [Non renewable elements]	Mass	6,53E-06	kg	(No statement)
Tin ore [Non renewable resources]	Mass	7,23E-04	kg	Estimated
Titanium dioxide [Non renewable resources]	Mass	4,77E-03	kg	(No statement)
Titanium ore [Non renewable resources]	Mass	2,29E-06	kg	(No statement)
Transformation, from arable [Hemerobie ecoinvent]	Area	1,03E-05	sqm	(No statement)
Transformation, from arable, non-irrigated [Hemerobie ecoinvent]	Area	6,54E-01	sqm	(No statement)
Transformation, from arable, non-irrigated, fallow [Hemerobie ecoinvent]	Area	1,38E-06	sqm	(No statement)
Transformation, from dump site, inert material landfill [Hemerobie ecoinvent]	Area	5,71E-05	sqm	(No statement)
Transformation, from dump site, residual material landfill [Hemerobie ecoinvent]	Area	4,10E-05	sqm	(No statement)
Transformation, from dump site, sanitary landfill	Area	7,34E-05	sqm	(No statement)

Appendix 2.5
LCI Data - Web based newspaper with print-out, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
[Hemerobie ecoinvent]				
Transformation, from dump site, slag compartment [Hemerobie ecoinvent]	Area	2,70E-06	sqm	(No statement)
Transformation, from forest [Hemerobie ecoinvent]	Area	1,29E-02	sqm	(No statement)
Transformation, from forest, extensive [Hemerobie ecoinvent]	Area	8,76E-02	sqm	(No statement)
Transformation, from industrial area [Hemerobie ecoinvent]	Area	2,64E-05	sqm	(No statement)
Transformation, from industrial area, benthos [Hemerobie ecoinvent]	Area	4,39E-08	sqm	(No statement)
Transformation, from industrial area, built up [Hemerobie ecoinvent]	Area	1,44E-07	sqm	(No statement)
Transformation, from industrial area, vegetation [Hemerobie ecoinvent]	Area	2,46E-07	sqm	(No statement)
Transformation, from mineral extraction site [Hemerobie ecoinvent]	Area	4,68E-04	sqm	(No statement)
Transformation, from pasture and meadow [Hemerobie ecoinvent]	Area	3,36E-04	sqm	(No statement)
Transformation, from pasture and meadow, intensive [Hemerobie ecoinvent]	Area	5,27E-04	sqm	(No statement)
Transformation, from sea and ocean [Hemerobie ecoinvent]	Area	3,96E-03	sqm	(No statement)
Transformation, from shrub land, sclerophyllous [Hemerobie ecoinvent]	Area	2,21E-04	sqm	(No statement)
Transformation, from unknown [Hemerobie ecoinvent]	Area	7,48E-03	sqm	(No statement)
Transformation, to arable [Hemerobie ecoinvent]	Area	2,05E-04	sqm	(No statement)
Transformation, to arable, non-irrigated [Hemerobie ecoinvent]	Area	6,54E-01	sqm	(No statement)
Transformation, to arable, non-irrigated, fallow [Hemerobie ecoinvent]	Area	2,15E-06	sqm	(No statement)
Transformation, to dump site [Hemerobie ecoinvent]	Area	1,41E-04	sqm	(No statement)
Transformation, to dump site, benthos [Hemerobie ecoinvent]	Area	3,95E-03	sqm	(No statement)
Transformation, to dump site, inert material landfill [Hemerobie ecoinvent]	Area	5,71E-05	sqm	(No statement)
Transformation, to dump site, residual material landfill [Hemerobie ecoinvent]	Area	4,10E-05	sqm	(No statement)
Transformation, to dump site, sanitary landfill [Hemerobie ecoinvent]	Area	7,34E-05	sqm	(No statement)
Transformation, to dump site, slag compartment [Hemerobie ecoinvent]	Area	2,70E-06	sqm	(No statement)
Transformation, to forest [Hemerobie ecoinvent]	Area	5,10E-04	sqm	(No statement)
Transformation, to forest, intensive [Hemerobie ecoinvent]	Area	5,12E-02	sqm	(No statement)
Transformation, to forest, intensive, normal [Hemerobie ecoinvent]	Area	3,41E-02	sqm	(No statement)
Transformation, to heterogeneous, agricultural [Hemerobie ecoinvent]	Area	6,06E-04	sqm	(No statement)
Transformation, to industrial area [Hemerobie ecoinvent]	Area	4,88E-04	sqm	(No statement)
Transformation, to industrial area, benthos [Hemerobie ecoinvent]	Area	1,64E-06	sqm	(No statement)
Transformation, to industrial area, built up [Hemerobie ecoinvent]	Area	1,34E-04	sqm	(No statement)
Transformation, to industrial area, vegetation [Hemerobie ecoinvent]	Area	9,44E-05	sqm	(No statement)
Transformation, to mineral extraction site [Hemerobie ecoinvent]	Area	1,64E-02	sqm	(No statement)
Transformation, to pasture and meadow [Hemerobie	Area	7,72E-06	sqm	(No statement)

Appendix 2.5
LCI Data - Web based newspaper with print-out, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
ecoinvent]				
Transformation, to permanent crop, fruit, intensive [Hemerobie ecoinvent]	Area	1,18E-03	sqm	(No statement)
Transformation, to sea and ocean [Hemerobie ecoinvent]	Area	4,39E-08	sqm	(No statement)
Transformation, to shrub land, sclerophyllous [Hemerobie ecoinvent]	Area	1,74E-04	sqm	(No statement)
Transformation, to traffic area, rail embankment [Hemerobie ecoinvent]	Area	4,72E-06	sqm	(No statement)
Transformation, to traffic area, rail network [Hemerobie ecoinvent]	Area	5,19E-06	sqm	(No statement)
Transformation, to traffic area, road embankment [Hemerobie ecoinvent]	Area	1,22E-03	sqm	(No statement)
Transformation, to traffic area, road network [Hemerobie ecoinvent]	Area	6,13E-04	sqm	(No statement)
Transformation, to unknown [Hemerobie ecoinvent]	Area	2,78E-05	sqm	(No statement)
Transformation, to urban, discontinuously built [Hemerobie ecoinvent]	Area	2,16E-05	sqm	(No statement)
Transformation, to water bodies, artificial [Hemerobie ecoinvent]	Area	1,88E-03	sqm	(No statement)
Transformation, to water courses, artificial [Hemerobie ecoinvent]	Area	1,19E-04	sqm	(No statement)
Ulexite [Non renewable resources]	Mass	8,52E-07	kg	(No statement)
Uranium free ore (BUWAL) [Uranium (resource)]	Mass	-1,09E-08	kg	Literature
Uranium free ore [Uranium (resource)]	Mass	6,67E-17	kg	Literature
Uranium natural [Uranium (resource)]	Mass	1,62E-04	kg	(Literature)
Waste (solid) [Waste for disposal]	Mass	0,00E+00	kg	(No statement)
Waste for recovery (unspecified) [Waste for recovery]	Mass	1,02E-01	kg	(No statement)
Water (feed water) [Water]	Mass	4,65E-03	kg	(Literature)
Water (ground water) [Water]	Mass	8,18E+01	kg	(Estimated)
Water (lake water) [Water]	Mass	5,01E-01	kg	(No statement)
Water (river water) [Water]	Mass	6,93E+01	kg	(No statement)
Water (sea water) [Water]	Mass	1,28E+01	kg	(Literature)
Water (surface water) [Water]	Mass	6,52E+01	kg	(Calculated)
Water [Water]	Mass	6,53E+02	kg	(Measured)
Water for industrial use [Operating materials]	Mass	1,97E+00	kg	(Calculated)
Water, salt, sole [in water]	Volume	7,83E-03	m3	(No statement)
Water,turbine use, unspecified natural origin [in water]	Volume	7,77E+01	m3	(No statement)
Vermiculite [Non renewable resources]	Mass	4,79E-07	kg	(No statement)
Volume occupied, final repository for low-active radioactive waste [Hemerobie ecoinvent]	Volume	2,98E-07	m3	(No statement)
Volume occupied, final repository for radioactive waste [Hemerobie ecoinvent]	Volume	7,44E-08	m3	(No statement)
Volume occupied, reservoir [Hemerobie ecoinvent]	Cubic meter years	1,06E-01	m3a	(No statement)
Volume occupied, underground deposit [Hemerobie ecoinvent]	Volume	7,72E-07	m3	(No statement)
Wood (BUWAL) [Renewable energy resources]	Mass	-1,25E-02	kg	Literature
Wood [Renewable energy resources]	Mass	2,46E-03	kg	(Estimated)
Wood, hard, standing [biotic]	Volume	7,44E-03	m3	(No statement)
Wood, soft, standing [biotic]	Volume	8,45E-04	m3	(No statement)
Zinc - copper ore (4.07%-2.59%) [Non renewable resources]	Mass	1,25E-01	kg	(Estimated)
Zinc - lead - copper ore (12%-3%-2%) [Non renewable resources]	Mass	9,31E-02	kg	Calculated
Zinc - lead ore (4.21%-4.96%) [Non renewable	Mass	1,48E-10	kg	Estimated

Appendix 2.5
LCI Data - Web based newspaper with print-out, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
resources]				
Zinc [Non renewable elements]	Mass	1,73E-03	kg	(No statement)
Zinc ore (sulphide) [Non renewable resources]	Mass	1,02E-11	kg	Calculated
Flow - Outputs	**Quantity**	**Amount**	**Unit**	**Origin of data**
Acenaphthene [Hydrocarbons to fresh water]	Mass	2,65E-09	kg	(No statement)
Acenaphthene [Hydrocarbons to sea water]	Mass	1,29E-09	kg	(No statement)
Acenaphthylene [Hydrocarbons to fresh water]	Mass	1,66E-10	kg	(No statement)
Acenaphthylene [Hydrocarbons to sea water]	Mass	8,05E-11	kg	(No statement)
Acentaphthene [Group NMVOC to air]	Mass	1,91E-11	kg	(No statement)
Acetaldehyde (Ethanal) [Group NMVOC to air]	Mass	7,26E-06	kg	(Literature)
Acetic acid [Group NMVOC to air]	Mass	3,55E-05	kg	(Literature)
Acetic acid [Hydrocarbons to fresh water]	Mass	5,25E-07	kg	(No statement)
Acetone (dimethylcetone) [Group NMVOC to air]	Mass	5,95E-06	kg	(Literature)
Acid (calculated as H+) [Inorganic emissions to fresh water]	Mass	5,70E-05	kg	(Literature)
Aclonifen [Pesticides to agricultural soil]	Mass	5,60E-08	kg	(No statement)
Acrolein [Group NMVOC to air]	Mass	1,05E-08	kg	(No statement)
Acrylonitrile [Hydrocarbons to fresh water]	Mass	1,04E-05	kg	(Calculated)
Adsorbable organic halogen compounds (AOX) [Analytical measures to fresh water]	Mass	4,21E-04	kg	(Measured)
Adsorbable organic halogen compounds (AOX) [Analytical measures to sea water]	Mass	7,61E-08	kg	(No statement)
Aktinide (general) [Radioactive emissions to air]	Activity	3,11E-06	Bq	(No statement)
Aktinide (general) [Radioactive emissions to sea water]	Activity	4,16E-01	Bq	(No statement)
Aldehyde (unspecified) [Group NMVOC to air]	Mass	1,98E-07	kg	(Literature)
Alkane (unspecified) [Group NMVOC to air]	Mass	2,41E-04	kg	(Calculated)
Alkane (unspecified) [Hydrocarbons to fresh water]	Mass	5,54E-05	kg	(No statement)
Alkane (unspecified) [Hydrocarbons to sea water]	Mass	2,69E-05	kg	(No statement)
Alkene (unspecified) [Group NMVOC to air]	Mass	1,88E-04	kg	(Calculated)
Alkene (unspecified) [Hydrocarbons to fresh water]	Mass	5,12E-06	kg	(No statement)
Alkene (unspecified) [Hydrocarbons to sea water]	Mass	2,48E-06	kg	(No statement)
Aluminum [Fresh water]	Mass	4,01E-02	kg	(No statement)
Aluminum [Inorganic emissions to agricultural soil]	Mass	1,62E-06	kg	(No statement)
Aluminum [Inorganic emissions to fresh water]	Mass	1,08E-04	kg	(Literature)
Aluminum [Inorganic emissions to industrial soil]	Mass	2,96E-04	kg	(No statement)
Aluminum [Inorganic emissions to sea water]	Mass	4,32E-05	kg	(No statement)
Aluminum [Particles to air]	Mass	5,85E-04	kg	(No statement)
Aluminum scrap [Waste for recovery]	Mass	1,12E-06	kg	Measured
Americium (Am241) [Radioactive emissions to fresh water]	Activity	1,99E-02	Bq	Calculated
Ammonia [Inorganic emissions to air]	Mass	3,22E-03	kg	(Calculated)
Ammonia [Inorganic emissions to fresh water]	Mass	4,49E-06	kg	(Measured)
Ammonium / ammonia [Fresh water]	Mass	5,99E-04	kg	(No statement)
Ammonium / ammonia [Inorganic emissions to fresh water]	Mass	1,95E-03	kg	(Measured)
Ammonium / ammonia [Inorganic emissions to sea water]	Mass	1,90E-05	kg	(No statement)
Ammonium [Inorganic emissions to air]	Mass	2,59E-06	kg	Measured
Ammonium carbonate [high population density]	Mass	4,78E-09	kg	(No statement)
Ammonium nitrate [Inorganic emissions to air]	Mass	3,22E-10	kg	(Literature)
Antimony (Sb122) [Radioactive emissions to fresh water]	Activity	2,25E-04	Bq	(No statement)
Antimony (Sb124) [Radioactive emissions to air]	Activity	1,41E-04	Bq	(Literature)
Antimony (Sb124) [Radioactive emissions to fresh water]	Activity	6,89E-02	Bq	(Literature)
Antimony (Sb125) [Radioactive emissions to air]	Activity	5,83E-06	Bq	(No statement)

Appendix 2.5
LCI Data - Web based newspaper with print-out, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Antimony (Sb125) [Radioactive emissions to fresh water]	Activity	5,84E-02	Bq	(Literature)
Antimony [Fresh water]	Mass	1,41E-04	kg	(No statement)
Antimony [Heavy metals to agricultural soil]	Mass	1,86E-12	kg	(No statement)
Antimony [Heavy metals to air]	Mass	1,04E-06	kg	(Calculated)
Antimony [Heavy metals to fresh water]	Mass	7,63E-05	kg	(No statement)
Argon (Ar41) [Radioactive emissions to air]	Activity	9,49E+01	Bq	(Literature)
Aromatic hydrocarbons (unspecified) [Group NMVOC to air]	Mass	1,43E-05	kg	(Literature)
Aromatic hydrocarbons (unspecified) [Hydrocarbons to fresh water]	Mass	2,24E-04	kg	Literature
Aromatic hydrocarbons (unspecified) [Hydrocarbons to sea water]	Mass	1,14E-04	kg	(No statement)
Arsenic [Fresh water]	Mass	4,82E-06	kg	(No statement)
Arsenic [Heavy metals to agricultural soil]	Mass	3,10E-10	kg	(No statement)
Arsenic [Heavy metals to air]	Mass	4,59E-06	kg	(Literature)
Arsenic [Heavy metals to fresh water]	Mass	3,71E-05	kg	(Literature)
Arsenic [Heavy metals to industrial soil]	Mass	3,48E-07	kg	Measured
Arsenic [Heavy metals to sea water]	Mass	1,73E-07	kg	(No statement)
Arsenic trioxide [Heavy metals to air]	Mass	6,97E-12	kg	Measured
Ash [Stockpile goods]	Mass	4,91E-06	kg	Calculated
Atrazine [Pesticides to agricultural soil]	Mass	5,53E-11	kg	(No statement)
Barium (Ba140) [Radioactive emissions to air]	Activity	3,79E-04	Bq	(No statement)
Barium (Ba140) [Radioactive emissions to fresh water]	Activity	9,87E-04	Bq	(No statement)
Barium [Fresh water]	Mass	3,40E-04	kg	(No statement)
Barium [Inorganic emissions to agricultural soil]	Mass	6,08E-09	kg	(No statement)
Barium [Inorganic emissions to air]	Mass	7,08E-06	kg	(Literature)
Barium [Inorganic emissions to fresh water]	Mass	3,77E-04	kg	(Literature)
Barium [Inorganic emissions to industrial soil]	Mass	1,48E-04	kg	(No statement)
Barium [Inorganic emissions to sea water]	Mass	1,81E-04	kg	(No statement)
Barytes [ocean]	Mass	2,46E-03	kg	(No statement)
Battery Li-Ion (E-Paper) [Flows]	Mass	8,08E-10	kg	(Literature)
Bentazone [Pesticides to agricultural soil]	Mass	2,85E-08	kg	(No statement)
Benzaldehyde [Group NMVOC to air]	Mass	4,74E-09	kg	(No statement)
Benzene [Group NMVOC to air]	Mass	6,72E-04	kg	(Literature)
Benzene [Hydrocarbons to fresh water]	Mass	3,98E-05	kg	(Literature)
Benzene [Hydrocarbons to sea water]	Mass	1,71E-05	kg	(No statement)
Benzo{a}pyrene [Group PAH to air]	Mass	3,90E-07	kg	(Literature)
Beryllium [Fresh water]	Mass	2,53E-06	kg	(No statement)
Beryllium [Inorganic emissions to air]	Mass	4,70E-08	kg	(Literature)
Beryllium [Inorganic emissions to fresh water]	Mass	1,30E-08	kg	(Literature)
Biological oxygen demand (BOD) [Analytical measures to fresh water]	Mass	1,34E-01	kg	(Measured)
Biological oxygen demand (BOD) [Analytical measures to sea water]	Mass	2,25E-02	kg	(No statement)
Biological oxygen demand, BSB5 (Ecoinvent) [Fresh water]	Mass	2,79E-02	kg	(No statement)
Blast furnace slag [Waste for recovery]	Mass	8,09E-09	kg	Calculated
Boiler ash (unspecified) [Waste for recovery]	Mass	-4,20E-05	kg	Calculated
Boron [Fresh water]	Mass	1,90E-04	kg	(No statement)
Boron [Inorganic emissions to air]	Mass	7,10E-05	kg	(No statement)
Boron [Inorganic emissions to fresh water]	Mass	2,09E-05	kg	(Literature)
Boron [Inorganic emissions to sea water]	Mass	1,69E-06	kg	(No statement)
Boron compounds (unspecified) [Inorganic emissions to air]	Mass	9,49E-05	kg	(Calculated)

Appendix 2.5
LCI Data - Web based newspaper with print-out, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Bromate [Inorganic emissions to fresh water]	Mass	2,02E-05	kg	(No statement)
Bromine [Fresh water]	Mass	5,54E-05	kg	(No statement)
Bromine [Inorganic emissions to air]	Mass	1,67E-05	kg	(Calculated)
Bromine [Inorganic emissions to fresh water]	Mass	5,59E-04	kg	(No statement)
Bromine [Inorganic emissions to sea water]	Mass	1,45E-04	kg	(No statement)
Butadiene [Group NMVOC to air]	Mass	2,08E-12	kg	(No statement)
Butane (n-butane) [Group NMVOC to air]	Mass	1,98E-06	kg	(Calculated)
Butane [Group NMVOC to air]	Mass	6,48E-04	kg	(Literature)
Butene [Group NMVOC to air]	Mass	1,34E-05	kg	(No statement)
Butene [Hydrocarbons to fresh water]	Mass	2,13E-08	kg	(No statement)
Cadmium [Fresh water]	Mass	6,31E-06	kg	(No statement)
Cadmium [Heavy metals to agricultural soil]	Mass	3,55E-08	kg	(No statement)
Cadmium [Heavy metals to air]	Mass	1,49E-06	kg	(Literature)
Cadmium [Heavy metals to fresh water]	Mass	6,44E-05	kg	(Literature)
Cadmium [Heavy metals to industrial soil]	Mass	1,72E-07	kg	Measured
Cadmium [Heavy metals to sea water]	Mass	6,81E-08	kg	(No statement)
CaF2 (low radioactice) [Radioactive waste]	Mass	4,21E-07	kg	(Literature)
Calcium [Fresh water]	Mass	1,11E-01	kg	(No statement)
Calcium [Inorganic emissions to fresh water]	Mass	1,70E-02	kg	(Literature)
Calcium [Inorganic emissions to sea water]	Mass	7,03E-03	kg	(No statement)
Carbetamide [Pesticides to agricultural soil]	Mass	1,13E-07	kg	(No statement)
Carbon (C14) [Radioactive emissions to air]	Activity	2,97E+02	Bq	(Literature)
Carbon (C14) [Radioactive emissions to fresh water]	Activity	1,03E+00	Bq	(Estimated)
Carbon (unspecified) [Organic emissions to agricultural soil]	Mass	1,61E-04	kg	(No statement)
Carbon (unspecified) [Organic emissions to industrial soil]	Mass	8,89E-04	kg	(No statement)
Carbon dioxide (biotic) [Air]	Mass	6,16E+00	kg	(No statement)
Carbon dioxide [Inorganic emissions to air]	Mass	4,21E+01	kg	(Literature)
Carbon disulphide [Inorganic emissions to air]	Mass	6,22E-05	kg	(No statement)
Carbon monoxide (biotic) [Air]	Mass	2,90E-03	kg	(No statement)
Carbon monoxide [Inorganic emissions to air]	Mass	1,33E-01	kg	(Literature)
Carbon tetrachloride (tetrachloromethane) [Halogenated organic emissions to air]	Mass	1,98E-08	kg	(No statement)
Carbonate [Inorganic emissions to fresh water]	Mass	2,28E-05	kg	(Literature)
Cerium (Ce141) [Radioactive emissions to air]	Activity	9,19E-05	Bq	(No statement)
Cerium (Ce141) [Radioactive emissions to fresh water]	Activity	3,95E-04	Bq	(No statement)
Cerium (Ce144) [Radioactive emissions to fresh water]	Activity	1,20E-04	Bq	(No statement)
Cesium (Cs134) [Radioactive emissions to air]	Activity	5,55E-03	Bq	(Literature)
Cesium (Cs134) [Radioactive emissions to fresh water]	Activity	1,38E+00	Bq	(Literature)
Cesium (Cs136) [Radioactive emissions to fresh water]	Activity	7,00E-05	Bq	(No statement)
Cesium (Cs137) [Radioactive emissions to air]	Activity	1,24E-02	Bq	(Literature)
Cesium (Cs137) [Radioactive emissions to fresh water]	Activity	9,55E+00	Bq	(Literature)
Cesium (Cs137) [Radioactive emissions to sea water]	Activity	4,77E+01	Bq	(No statement)
Cesium [Heavy metals to fresh water]	Mass	4,27E-07	kg	(No statement)
Cesium [Heavy metals to sea water]	Mass	2,07E-07	kg	(No statement)
CH: disposal, plastic, consumer electronics, 15.3% water, to municipal incineration [municipal incineration]	Mass	4,71E-04	kg	(Calculated)
Chemical oxygen demand (COD) [Analytical measures to fresh water]	Mass	2,16E-01	kg	(Literature)
Chemical oxygen demand (COD) [Analytical measures to sea water]	Mass	2,27E-02	kg	Estimated
Chemical oxygen demand, CSB (Ecoinvent) [Fresh water]	Mass	1,12E-01	kg	(No statement)

Appendix 2.5
LCI Data - Web based newspaper with print-out, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Chlorate [Inorganic emissions to fresh water]	Mass	2,25E-04	kg	(No statement)
Chloride (unspecified) [Inorganic emissions to air]	Mass	7,44E-06	kg	(Measured)
Chloride [Fresh water]	Mass	6,50E-03	kg	(No statement)
Chloride [Inorganic emissions to fresh water]	Mass	3,70E-01	kg	(Literature)
Chloride [Inorganic emissions to sea water]	Mass	1,04E-01	kg	(No statement)
Chlorinated hydrocarbons (unspecified) [Halogenated organic emissions to fresh water]	Mass	8,30E-08	kg	(Estimated)
Chlorine (dissolved) [Inorganic emissions to fresh water]	Mass	1,82E-05	kg	(Literature)
Chlorine [Inorganic emissions to agricultural soil]	Mass	8,71E-08	kg	(No statement)
Chlorine [Inorganic emissions to air]	Mass	2,16E-05	kg	(Literature)
Chlorine [Inorganic emissions to industrial soil]	Mass	1,96E-02	kg	(No statement)
Chloromethane (methyl chloride) [Halogenated organic emissions to air]	Mass	3,69E-09	kg	Estimated
Chloromethane (methyl chloride) [Halogenated organic emissions to fresh water]	Mass	3,19E-07	kg	(Literature)
Chlorothalonil [Pesticides to agricultural soil]	Mass	1,03E-04	kg	(No statement)
Chlorous dissolvent [Halogenated organic emissions to fresh water]	Mass	8,97E-08	kg	(No statement)
Chlorous dissolvent [Halogenated organic emissions to sea water]	Mass	1,16E-14	kg	(No statement)
Chromium (Cr51) [Radioactive emissions to air]	Activity	5,89E-06	Bq	(No statement)
Chromium (Cr51) [Radioactive emissions to fresh water]	Activity	9,55E-02	Bq	(No statement)
Chromium (unspecified) [Heavy metals to agricultural soil]	Mass	8,62E-07	kg	(No statement)
Chromium (unspecified) [Heavy metals to air]	Mass	9,18E-06	kg	(Literature)
Chromium (unspecified) [Heavy metals to fresh water]	Mass	1,24E-07	kg	(Literature)
Chromium (unspecified) [Heavy metals to industrial soil]	Mass	2,70E-06	kg	(No statement)
Chromium +III [Heavy metals to fresh water]	Mass	2,99E-08	kg	(Literature)
Chromium +VI [Fresh water]	Mass	8,21E-05	kg	(No statement)
Chromium +VI [Heavy metals to air]	Mass	1,73E-07	kg	(No statement)
Chromium +VI [Heavy metals to fresh water]	Mass	3,88E-05	kg	(No statement)
Chromium +VI [Heavy metals to industrial soil]	Mass	3,31E-06	kg	(No statement)
Cobalt (Co57) [Radioactive emissions to fresh water]	Activity	2,22E-03	Bq	(No statement)
Cobalt (Co58) [Radioactive emissions to air]	Activity	3,70E-04	Bq	(Literature)
Cobalt (Co58) [Radioactive emissions to fresh water]	Activity	6,31E-01	Bq	(Literature)
Cobalt (Co60) [Radioactive emissions to air]	Activity	4,16E-03	Bq	(Literature)
Cobalt (Co60) [Radioactive emissions to fresh water]	Activity	4,84E+00	Bq	(Literature)
Cobalt [Fresh water]	Mass	3,41E-05	kg	(No statement)
Cobalt [Heavy metals to agricultural soil]	Mass	1,01E-09	kg	(No statement)
Cobalt [Heavy metals to air]	Mass	1,47E-06	kg	(Literature)
Cobalt [Heavy metals to fresh water]	Mass	2,90E-07	kg	(No statement)
Cobalt [Heavy metals to sea water]	Mass	1,44E-09	kg	(No statement)
Cooling water [Waste for recovery]	Mass	3,39E+01	kg	(Measured)
Copper [Fresh water]	Mass	6,25E-04	kg	(No statement)
Copper [Heavy metals to agricultural soil]	Mass	2,57E-06	kg	(No statement)
Copper [Heavy metals to air]	Mass	1,77E-05	kg	(Literature)
Copper [Heavy metals to fresh water]	Mass	1,40E-04	kg	(Literature)
Copper [Heavy metals to industrial soil]	Mass	4,93E-06	kg	Measured
Copper [Heavy metals to sea water]	Mass	2,17E-07	kg	(No statement)
Cumene (isopropylbenzene) [Group NMVOC to air]	Mass	7,03E-06	kg	(No statement)
Cumene (isopropylbenzene) [Organic emissions to fresh water]	Mass	1,69E-05	kg	(No statement)
Curium (Cm alpha) [Radioactive emissions to fresh water]	Activity	2,63E-02	Bq	Calculated

Appendix 2.5
LCI Data - Web based newspaper with print-out, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Cyanide (unspecified) [Inorganic emissions to air]	Mass	-1,33E-06	kg	(No statement)
Cyanide [Inorganic emissions to fresh water]	Mass	3,16E-05	kg	(Literature)
Cyanide [Inorganic emissions to sea water]	Mass	7,33E-07	kg	(No statement)
Cycloalkanes (unspec.) [Group NMVOC to air]	Mass	3,73E-08	kg	(No statement)
Cypermethrin [Pesticides to agricultural soil]	Mass	5,45E-09	kg	(No statement)
Detergent (unspecified) [Other emissions to fresh water]	Mass	1,61E-10	kg	(Literature)
Dichloroethane (ethylene dichloride) [Halogenated organic emissions to air]	Mass	-2,52E-06	kg	(No statement)
Dichloroethane (ethylene dichloride) [Halogenated organic emissions to fresh water]	Mass	-6,36E-06	kg	(No statement)
Dichloromethane (methylene chloride) [Halogenated organic emissions to air]	Mass	5,79E-06	kg	Calculated
Dichloromethane (methylene chloride) [Halogenated organic emissions to fresh water]	Mass	7,50E-06	kg	(No statement)
Dichloropropane [Halogenated organic emissions to fresh water]	Mass	0,00E+00	kg	Estimated
Dichromate [river]	Mass	8,77E-08	kg	(No statement)
Diethyl amine (ethylene ethane amine) [Group NMVOC to air]	Mass	6,49E-11	kg	Measured
Different pollutants [Other emissions to agricultural soil]	Mass	1,87E-05	kg	(No statement)
Different pollutants [Other emissions to industrial soil]	Mass	2,19E-03	kg	(No statement)
Dinoseb [Pesticides to agricultural soil]	Mass	2,79E-05	kg	(No statement)
Dissolved organic carbon, DOC (Ecoinvent) [Fresh water]	Mass	9,61E-02	kg	(No statement)
Dust (> PM10) [Particles to air]	Mass	2,76E-02	kg	(No statement)
Dust (PM2,5 - PM10) [Particles to air]	Mass	1,28E-02	kg	(No statement)
Dust (PM2.5) [Particles to air]	Mass	1,96E-02	kg	(No statement)
Dust (unspecified) [Particles to air]	Mass	2,85E-03	kg	(Literature)
Ethane [Group NMVOC to air]	Mass	7,59E-04	kg	(Literature)
Ethanol [Group NMVOC to air]	Mass	9,45E-06	kg	(Literature)
Ethene (ethylene) [Group NMVOC to air]	Mass	2,19E-04	kg	(Literature)
Ethene (ethylene) [Hydrocarbons to fresh water]	Mass	1,48E-06	kg	(No statement)
Ethine (acetylene) [Group NMVOC to air]	Mass	3,15E-05	kg	(No statement)
Ethyl benzene [Group NMVOC to air]	Mass	2,78E-05	kg	(Calculated)
Ethyl benzene [Hydrocarbons to fresh water]	Mass	1,05E-05	kg	(Literature)
Ethyl benzene [Hydrocarbons to sea water]	Mass	4,97E-06	kg	(No statement)
Ethylene oxide [Group NMVOC to air]	Mass	1,28E-07	kg	(No statement)
Ethylene oxide [Hydrocarbons to fresh water]	Mass	8,51E-08	kg	(No statement)
Ethylenediamine [Group NMVOC to air]	Mass	-1,53E-06	kg	(No statement)
Ethylenediamine [Organic emissions to fresh water]	Mass	-3,70E-06	kg	(No statement)
Exhaust [Other emissions to air]	Mass	1,07E+01	kg	(Calculated)
Fatty acids (calculated as total carbon) [Hydrocarbons to fresh water]	Mass	1,57E-03	kg	(No statement)
Fatty acids (calculated as total carbon) [Hydrocarbons to sea water]	Mass	1,17E-03	kg	(No statement)
Fenpiclonil [Pesticides to agricultural soil]	Mass	4,05E-06	kg	(No statement)
Filter dust (heavy fuel oil power plant) [Waste for recovery]	Mass	2,67E-08	kg	Calculated
Fluoride (unspecified) [Inorganic emissions to air]	Mass	4,44E-07	kg	(Literature)
Fluoride [Fresh water]	Mass	1,63E-04	kg	(No statement)
Fluoride [Inorganic emissions to fresh water]	Mass	1,77E-04	kg	(Literature)
Fluoride [Inorganic emissions to industrial soil]	Mass	1,71E-05	kg	(No statement)
Fluoride [Inorganic emissions to sea water]	Mass	2,73E-05	kg	(No statement)
Fluorides [Inorganic emissions to air]	Mass	3,49E-10	kg	(Estimated)
Fluorine [Inorganic emissions to air]	Mass	2,31E-06	kg	(Literature)
Fluorine [Inorganic emissions to fresh water]	Mass	2,52E-06	kg	(Measured)

Appendix 2.5
LCI Data - Web based newspaper with print-out, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Fly ash (unspecified) [Waste for recovery]	Mass	-2,14E-04	kg	Calculated
Formaldehyde (methanal) [Group NMVOC to air]	Mass	3,64E-05	kg	(Literature)
Formaldehyde (methanal) [Hydrocarbons to fresh water]	Mass	-6,25E-06	kg	Literature
Glutaraldehyde [Hydrocarbons to sea water]	Mass	3,04E-07	kg	(No statement)
Glyphosate [Pesticides to agricultural soil]	Mass	4,42E-07	kg	(No statement)
Glyphosate [Pesticides to industrial soil]	Mass	1,36E-07	kg	(No statement)
Graphites [Particles to air]	Mass	0,00E+00	kg	Estimated
Gypsum (FDI) [Waste for recovery]	Mass	9,11E-04	kg	(Measured)
Gypsum [Waste for recovery]	Mass	6,55E-05	kg	(Calculated)
Halogenated hydrocarbons (unspecified) [Halogenated organic emissions to air]	Mass	-1,25E-12	kg	Literature
Halon (1211) [Halogenated organic emissions to air]	Mass	7,03E-08	kg	(No statement)
Halon (1301) [Halogenated organic emissions to air]	Mass	3,63E-07	kg	(Literature)
Hazardous waste (unspec.) [Hazardous waste]	Mass	4,19E-02	kg	(Literature)
Heat from natural gas [Flows]	Energy	3,18E-11	MJ	(No statement)
Heat from oil [Flows]	Energy	2,86E-10	MJ	(No statement)
Heat from waste [Flows]	Energy	2,72E-10	MJ	(No statement)
Heavy metals to water (unspecified) [Heavy metals to fresh water]	Mass	1,21E-07	kg	(Measured)
Helium [Inorganic emissions to air]	Mass	3,74E-05	kg	(Literature)
Heptane (isomers) [Group NMVOC to air]	Mass	1,34E-04	kg	(No statement)
Hexachlorobenzene (Perchlorobenzene) [Halogenated organic emissions to air]	Mass	6,10E-09	kg	(No statement)
Hexaflourosilicates [Air]	Mass	2,54E-07	kg	(No statement)
Hexaflourosilicates [Sweet-]	Mass	4,57E-07	kg	(No statement)
Hexane (isomers) [Group NMVOC to air]	Mass	3,09E-04	kg	(Literature)
Highly radioactive waste [Radioactive waste]	Mass	5,71E-06	kg	(Calculated)
Highly-active fission product solution [Radioactive waste]	Mass	4,24E-08	kg	(Estimated)
Housing (E-Paper) [Flows]	Mass	2,76E-03	kg	Calculated
Hydrocarbons (unspecified) [Hydrocarbons to fresh water]	Mass	1,27E-05	kg	(Literature)
Hydrocarbons (unspecified) [Hydrocarbons to sea water]	Mass	4,68E-05	kg	(No statement)
Hydrocarbons, aromatic [Group NMVOC to air]	Mass	2,96E-05	kg	(No statement)
Hydrocarbons, chloro-/fluoro- [Halogenated organic emissions to air]	Mass	1,80E-07	kg	(No statement)
Hydrocarbons, halogenated [Halogenated organic emissions to air]	Mass	5,30E-08	kg	(No statement)
Hydrogen (H3) [Radioactive emissions to air]	Activity	1,55E+03	Bq	(Literature)
Hydrogen (H3) [Radioactive emissions to fresh water]	Activity	4,03E+04	Bq	(Literature)
Hydrogen (H3) [Radioactive emissions to sea water]	Activity	9,90E+04	Bq	(No statement)
Hydrogen [Inorganic emissions to air]	Mass	3,31E-03	kg	(Measured)
Hydrogen arsenic (arsine) [Heavy metals to air]	Mass	5,79E-10	kg	Measured
Hydrogen chloride [Inorganic emissions to air]	Mass	1,28E-03	kg	(Literature)
Hydrogen chloride [Inorganic emissions to fresh water]	Mass	1,28E-12	kg	Estimated
Hydrogen cyanide (prussic acid) [Inorganic emissions to air]	Mass	3,89E-08	kg	(Calculated)
Hydrogen fluoride (hydrofluoric acid) [Inorganic emissions to fresh water]	Mass	1,87E-09	kg	Measured
Hydrogen fluoride [Inorganic emissions to air]	Mass	2,23E-04	kg	(Literature)
Hydrogen peroxide [Sweet-]	Mass	3,28E-05	kg	(No statement)
Hydrogen sulphide [Fresh water]	Mass	2,72E-04	kg	(No statement)
Hydrogen sulphide [Inorganic emissions to air]	Mass	1,24E-04	kg	(Literature)
Hydrogen sulphide [Inorganic emissions to fresh water]	Mass	1,71E-07	kg	(No statement)
Hydroxide [Inorganic emissions to fresh water]	Mass	6,12E-06	kg	Estimated

Appendix 2.5
LCI Data - Web based newspaper with print-out, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Hypochlorite [Inorganic emissions to fresh water]	Mass	3,48E-06	kg	(No statement)
Hypochlorite [Inorganic emissions to sea water]	Mass	3,90E-06	kg	(No statement)
Iliad Module (E-Paper) [Flows]	Mass	1,79E-08	kg	(Literature)
Incineration good [Waste for disposal]	Mass	9,48E-05	kg	Literature
Industrial waste for municipal disposal [Consumer waste]	Mass	9,79E-03	kg	(Literature)
inert chemical waste [Consumer waste]	Mass	1,94E-04	kg	(Literature)
Inert gases [Radioactive emissions to air]	Activity	2,46E+06	Bq	(No statement)
Inorganic salts and acids (unspecified) [Inorganic emissions to fresh water]	Mass	3,66E-05	kg	Literature
Iodide [Fresh water]	Mass	1,46E-10	kg	(No statement)
Iodide [Inorganic emissions to fresh water]	Mass	4,30E-05	kg	(No statement)
Iodide [Inorganic emissions to sea water]	Mass	2,07E-05	kg	(No statement)
Iodine (I129) [Radioactive emissions to air]	Activity	2,99E-01	Bq	Calculated
Iodine (I129) [Radioactive emissions to fresh water]	Activity	2,94E+00	Bq	(Estimated)
Iodine (I131) [Radioactive emissions to air]	Activity	1,53E+01	Bq	(Literature)
Iodine (I131) [Radioactive emissions to fresh water]	Activity	1,30E-02	Bq	(Literature)
Iodine (I133) [Radioactive emissions to air]	Activity	4,54E-04	Bq	(No statement)
Iodine (I133) [Radioactive emissions to fresh water]	Activity	6,19E-04	Bq	(No statement)
Iodine [Inorganic emissions to air]	Mass	3,31E-06	kg	(No statement)
Iron (Fe59) [Radioactive emissions to fresh water]	Activity	1,70E-04	Bq	(No statement)
Iron [Fresh water]	Mass	1,02E-02	kg	(No statement)
Iron [Heavy metals to agricultural soil]	Mass	9,96E-06	kg	(No statement)
Iron [Heavy metals to air]	Mass	1,06E-04	kg	(Literature)
Iron [Heavy metals to fresh water]	Mass	5,26E-03	kg	(Literature)
Iron [Heavy metals to industrial soil]	Mass	8,56E-04	kg	(No statement)
Iron [Heavy metals to sea water]	Mass	1,11E-05	kg	(No statement)
Isocyanide acid [Air]	Mass	1,11E-06	kg	(No statement)
Jacket and body material [Radioactive waste]	Mass	5,98E-09	kg	(Calculated)
Krypton (Kr85) [Radioactive emissions to air]	Activity	7,61E+05	Bq	(Literature)
Krypton (Kr85m) [Radioactive emissions to air]	Activity	8,63E+00	Bq	(Literature)
Krypton (Kr87) [Radioactive emissions to air]	Activity	2,68E+00	Bq	(No statement)
Krypton (Kr88) [Radioactive emissions to air]	Activity	2,75E+00	Bq	(No statement)
Krypton (Kr89) [Radioactive emissions to air]	Activity	7,79E-01	Bq	(No statement)
Lanthanides [Heavy metals to air]	Mass	9,50E-10	kg	(Estimated)
Lanthanum (La140) [Radioactive emissions to fresh water]	Activity	1,05E-03	Bq	(No statement)
Lanthanum (La141) [Radioactive emissions to air]	Activity	3,24E-05	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to air]	Activity	1,68E+00	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to fresh water]	Activity	4,87E-01	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to sea water]	Activity	1,58E+00	Bq	(No statement)
Lead [Fresh water]	Mass	1,58E-04	kg	(No statement)
Lead [Heavy metals to agricultural soil]	Mass	3,32E-07	kg	(No statement)
Lead [Heavy metals to air]	Mass	2,65E-05	kg	(Literature)
Lead [Heavy metals to fresh water]	Mass	4,26E-04	kg	(Literature)
Lead [Heavy metals to industrial soil]	Mass	2,32E-06	kg	Measured
Lead [Heavy metals to sea water]	Mass	1,62E-06	kg	(No statement)
Li-Ion Cell [Other parts]	Mass	3,22E-10	kg	(Literature)
Linuron [Pesticides to agricultural soil]	Mass	4,33E-07	kg	(No statement)
Liquid hazardous waste [Hazardous waste]	Mass	9,43E-07	kg	(Estimated)
Liquid waste [Consumer waste]	Mass	7,34E+03	kg	(Calculated)
Lithiumerz (R.O.M) [Non renewable resources]	Mass	5,34E-06	kg	(Literature)
Magnesium [Fresh water]	Mass	1,79E-02	kg	(No statement)
Magnesium [Inorganic emissions to fresh water]	Mass	3,39E-03	kg	(Literature)

Appendix 2.5
LCI Data - Web based newspaper with print-out, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Magnesium [Inorganic emissions to sea water]	Mass	1,14E-03	kg	(No statement)
Magnesium chloride [Inorganic emissions to fresh water]	Mass	5,10E-10	kg	(No statement)
Mancozeb [Pesticides to agricultural soil]	Mass	1,34E-04	kg	(No statement)
Manganese (Mn54) [Radioactive emissions to air]	Activity	3,02E-06	Bq	(No statement)
Manganese (Mn54) [Radioactive emissions to fresh water]	Activity	7,09E-01	Bq	(Literature)
Manganese [Fresh water]	Mass	4,60E-03	kg	(No statement)
Manganese [Heavy metals to agricultural soil]	Mass	5,74E-07	kg	(No statement)
Manganese [Heavy metals to air]	Mass	9,34E-06	kg	(Calculated)
Manganese [Heavy metals to fresh water]	Mass	1,74E-04	kg	(Literature)
Manganese [Heavy metals to industrial soil]	Mass	1,18E-05	kg	(No statement)
Manganese [Heavy metals to sea water]	Mass	9,15E-06	kg	(No statement)
Medium and low radioactive liquid waste [Radioactive waste]	Mass	5,91E-08	kg	(Estimated)
Medium and low radioactive wastes [Radioactive waste]	Mass	6,79E-06	kg	(Literature)
Mercaptan (unspecified) [Group NMVOC to air]	Mass	1,61E-10	kg	(Literature)
Mercury [Fresh water]	Mass	4,01E-07	kg	(No statement)
Mercury [Heavy metals to agricultural soil]	Mass	2,37E-08	kg	(No statement)
Mercury [Heavy metals to air]	Mass	1,40E-06	kg	(Literature)
Mercury [Heavy metals to fresh water]	Mass	1,49E-06	kg	(Measured)
Mercury [Heavy metals to industrial soil]	Mass	9,31E-09	kg	Measured
Mercury [Heavy metals to sea water]	Mass	4,74E-09	kg	(No statement)
Metal ions (unspecific) [Fresh water]	Mass	1,16E-03	kg	(No statement)
Metal ions (unspecific) [Inorganic emissions to fresh water]	Mass	1,17E-05	kg	(Calculated)
Metaldehyde [Organic emissions to agricultural soil]	Mass	4,72E-08	kg	(No statement)
Metals (unspecified) [Inorganic emissions to fresh water]	Mass	4,59E-16	kg	Literature
Metals (unspecified) [Particles to air]	Mass	2,98E-08	kg	(Literature)
Metals (unspecified) [Particles to fresh water]	Mass	9,86E-07	kg	(Literature)
Methacrylate [Group NMVOC to air]	Mass	5,10E-08	kg	Calculated
Methane (biotic) [Air]	Mass	5,10E-02	kg	(No statement)
Methane [Organic emissions to air (group VOC)]	Mass	4,32E-02	kg	(Literature)
Methanol [Group NMVOC to air]	Mass	1,89E-05	kg	(Literature)
Methanol [Hydrocarbons to fresh water]	Mass	1,30E-05	kg	(Measured)
Methanol [Hydrocarbons to sea water]	Mass	1,08E-06	kg	(No statement)
Methanol [Organic intermediate products]	Mass	2,74E-10	kg	Literature
Methyl methacrylate (MMA) [Group NMVOC to air]	Mass	1,40E-06	kg	Calculated
Methyl tert-butylether [Group NMVOC to air]	Mass	7,46E-08	kg	(No statement)
Methyl tert-butylether [Hydrocarbons to fresh water]	Mass	1,21E-09	kg	(No statement)
Methyl tert-butylether [Hydrocarbons to sea water]	Mass	1,34E-06	kg	(No statement)
Metolachlor [Pesticides to agricultural soil]	Mass	3,13E-06	kg	(No statement)
Metribuzin [Pesticides to agricultural soil]	Mass	4,70E-06	kg	(No statement)
Mineral waste [Consumer waste]	Mass	2,46E-07	kg	(Estimated)
Molybdenum (Mo99) [Radioactive emissions to fresh water]	Activity	3,62E-04	Bq	(No statement)
Molybdenum [Fresh water]	Mass	4,05E-06	kg	(No statement)
Molybdenum [Heavy metals to agricultural soil]	Mass	4,08E-10	kg	(No statement)
Molybdenum [Heavy metals to air]	Mass	6,92E-07	kg	(Literature)
Molybdenum [Heavy metals to fresh water]	Mass	8,11E-06	kg	(Literature)
Molybdenum [Heavy metals to sea water]	Mass	4,24E-08	kg	(No statement)
Monoethanolamine [Group NMVOC to air]	Mass	5,79E-05	kg	(No statement)
Municipal waste [Consumer waste]	Mass	2,22E-04	kg	(Calculated)
Napropamide [Pesticides to agricultural soil]	Mass	8,35E-08	kg	(No statement)
Neutral salts [Inorganic emissions to fresh water]	Mass	-3,52E-08	kg	Calculated

Appendix 2.5
LCI Data - Web based newspaper with print-out, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Nickel [Fresh water]	Mass	1,87E-04	kg	(No statement)
Nickel [Heavy metals to agricultural soil]	Mass	6,09E-07	kg	(No statement)
Nickel [Heavy metals to air]	Mass	1,34E-04	kg	(Literature)
Nickel [Heavy metals to fresh water]	Mass	2,55E-05	kg	(Literature)
Nickel [Heavy metals to industrial soil]	Mass	1,08E-06	kg	(No statement)
Nickel [Heavy metals to sea water]	Mass	1,14E-07	kg	(No statement)
Niobium (Nb95) [Radioactive emissions to air]	Activity	3,96E-03	Bq	(No statement)
Nitrate [Fresh water]	Mass	4,71E-04	kg	(No statement)
Nitrate [Inorganic emissions to air]	Mass	2,08E-08	kg	(No statement)
Nitrate [Inorganic emissions to fresh water]	Mass	1,97E-02	kg	(Literature)
Nitrate [Inorganic emissions to sea water]	Mass	6,58E-05	kg	(No statement)
Nitrite [Fresh water]	Mass	3,25E-05	kg	(No statement)
Nitrite [Inorganic emissions to fresh water]	Mass	4,08E-05	kg	(No statement)
Nitrite [Inorganic emissions to sea water]	Mass	6,45E-07	kg	(No statement)
Nitrogen [Inorganic emissions to fresh water]	Mass	1,14E-03	kg	(Literature)
Nitrogen [Inorganic emissions to sea water]	Mass	9,54E-07	kg	(No statement)
Nitrogen organic bounded [Fresh water]	Mass	9,79E-04	kg	(No statement)
Nitrogen organic bounded [Inorganic emissions to fresh water]	Mass	5,86E-05	kg	Literature
Nitrogen organic bounded [Inorganic emissions to sea water]	Mass	5,82E-05	kg	(No statement)
Nitrogen oxides [Inorganic emissions to air]	Mass	4,26E-01	kg	(Literature)
Nitrous oxide (laughing gas) [Inorganic emissions to air]	Mass	1,55E-03	kg	(Literature)
NMVOC (unspecified) [Group NMVOC to air]	Mass	4,68E-02	kg	(Literature)
non used primary energy from water power [Other emissions to fresh water]	Energy ren.	3,64E-01	MJ	(Calculated)
non used primary energy from wind power [Other emissions to air]	Energy ren.	2,18E-02	MJ	(Measured)
Oil (unspecified) [Hydrocarbons to fresh water]	Mass	3,63E-02	kg	(Literature)
Oil (unspecified) [Hydrocarbons to sea water]	Mass	6,70E-03	kg	(No statement)
Oil (unspecified) [Organic emissions to agricultural soil]	Mass	4,43E-02	kg	(No statement)
Oil (unspecified) [Organic emissions to industrial soil]	Mass	2,10E-04	kg	Measured
Orbencarb [Pesticides to agricultural soil]	Mass	2,54E-05	kg	(No statement)
Organic chlorine compounds (unspecified) [Organic emissions to fresh water]	Mass	1,61E-10	kg	(Literature)
Organic chlorine compounds [Organic emissions to air (group VOC)]	Mass	1,61E-10	kg	(Literature)
Organic compounds (dissolved) [Organic emissions to fresh water]	Mass	4,14E-08	kg	Calculated
Organic compounds (unspecified) [Organic emissions to fresh water]	Mass	3,66E-15	kg	Literature
Organic waste [Consumer waste]	Mass	1,11E-09	kg	Literature
Overburden [Stockpile goods]	Mass	1,28E+00	kg	(Literature)
Ozone [Inorganic emissions to air]	Mass	7,61E-05	kg	Literature
Pentachlorobenzene [Halogenated organic emissions to air]	Mass	1,82E-09	kg	(No statement)
Pentachlorophenol (PCP) [Halogenated organic emissions to air]	Mass	9,21E-08	kg	(No statement)
Pentane (n-pentane) [Group NMVOC to air]	Mass	8,22E-04	kg	(Literature)
Personal computer [Flows]	Number of pieces	3,21E-16	pcs.	(No statement)
Phenol (hydroxy benzene) [Group NMVOC to air]	Mass	7,59E-06	kg	Literature
Phenol (hydroxy benzene) [Hydrocarbons to fresh water]	Mass	4,03E-05	kg	(Estimated)
Phenol (hydroxy benzene) [Hydrocarbons to sea water]	Mass	2,62E-05	kg	(No statement)
Phosphate [Fresh water]	Mass	1,63E-03	kg	(No statement)

Appendix 2.5
LCI Data - Web based newspaper with print-out, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Phosphate [Inorganic emissions to fresh water]	Mass	6,70E-05	kg	(Measured)
Phosphate [Inorganic emissions to sea water]	Mass	2,66E-05	kg	(No statement)
Phosphorus [Inorganic emissions to agricultural soil]	Mass	2,67E-07	kg	(No statement)
Phosphorus [Inorganic emissions to air]	Mass	1,37E-05	kg	(No statement)
Phosphorus [Inorganic emissions to fresh water]	Mass	3,83E-05	kg	(No statement)
Phosphorus [Inorganic emissions to industrial soil]	Mass	1,48E-05	kg	(No statement)
Phosphorus [Inorganic emissions to sea water]	Mass	1,65E-06	kg	(No statement)
Pirimicarb [Pesticides to agricultural soil]	Mass	2,70E-09	kg	(No statement)
Plastic (unspecified) [Waste for recovery]	Mass	6,30E-05	kg	(Literature)
Platinum [Heavy metals to air]	Mass	4,69E-13	kg	(No statement)
Plutonium (Pu alpha) [Radioactive emissions to air]	Activity	2,66E-04	Bq	(Estimated)
Plutonium (Pu alpha) [Radioactive emissions to fresh water]	Activity	8,54E-02	Bq	(Estimated)
Plutonium (Pu238) [Radioactive emissions to air]	Activity	3,49E-08	Bq	(No statement)
Plutonium as residual product [Radioactive waste]	Mass	1,17E-08	kg	(Calculated)
Polonium (Po210) [Radioactive emissions to air]	Activity	2,99E+00	Bq	(No statement)
Polonium (Po210) [Radioactive emissions to fresh water]	Activity	4,87E-01	Bq	(No statement)
Polonium (Po210) [Radioactive emissions to sea water]	Activity	2,41E+00	Bq	(No statement)
Polychlorinated biphenyls (PCB unspecified) [Halogenated organic emissions to air]	Mass	9,47E-09	kg	(No statement)
Polychlorinated dibenzo-p-dioxins (2,3,7,8 - TCDD) [Halogenated organic emissions to air]	Mass	2,21E-11	kg	(Literature)
Polychlorinated dibenzo-p-dioxins (2,3,7,8 - TCDD) [Halogenated organic emissions to fresh water]	Mass	6,15E-21	kg	Estimated
Polycyclic aromatic hydrocarbons (PAH) [Group PAH to air]	Mass	1,35E-05	kg	(Literature)
Polycyclic aromatic hydrocarbons (PAH, unspec.) [Hydrocarbons to fresh water]	Mass	3,67E-06	kg	(Literature)
Polycyclic aromatic hydrocarbons (PAH, unspec.) [Hydrocarbons to sea water]	Mass	1,64E-06	kg	(No statement)
Populated PWB Iliad Module (E-Paper) [Flows]	Mass	1,56E-04	kg	Calculated
Potassium (K40) [Radioactive emissions to air]	Activity	3,84E-01	Bq	(No statement)
Potassium (K40) [Radioactive emissions to fresh water]	Activity	6,10E-01	Bq	(No statement)
Potassium (K40) [Radioactive emissions to sea water]	Activity	1,91E-01	Bq	(No statement)
Potassium [Fresh water]	Mass	1,50E-02	kg	(No statement)
Potassium [Inorganic emissions to fresh water]	Mass	3,45E-03	kg	(Literature)
Potassium [Inorganic emissions to sea water]	Mass	8,73E-04	kg	(No statement)
Propane [Group NMVOC to air]	Mass	8,33E-04	kg	(Literature)
Propanol (iso-propanol; isopropanol) [Group NMVOC to air]	Mass	2,89E-05	kg	Estimated
Propene (propylene) [Group NMVOC to air]	Mass	6,60E-05	kg	(Calculated)
Propene [Hydrocarbons to fresh water]	Mass	1,33E-05	kg	(No statement)
Propionaldehyde [Group NMVOC to air]	Mass	4,74E-09	kg	(No statement)
Propionic acid (propane acid) [Group NMVOC to air]	Mass	9,21E-07	kg	(Literature)
Propylene oxide [Group NMVOC to air]	Mass	3,80E-06	kg	(No statement)
Propylene oxide [Hydrocarbons to fresh water]	Mass	9,15E-06	kg	(No statement)
Protactinium (Pa234m) [Radioactive emissions to air]	Activity	3,53E-02	Bq	(No statement)
Protactinium (Pa234m) [Radioactive emissions to fresh water]	Activity	6,53E-01	Bq	(No statement)
R 11 (trichlorofluoromethane) [Halogenated organic emissions to air]	Mass	1,21E-07	kg	(Estimated)
R 113 (trichlorofluoroethane) [Halogenated organic emissions to air]	Mass	0,00E+00	kg	(No statement)
R 114 (dichlorotetrafluoroethane) [Halogenated organic emissions to air]	Mass	1,85E-07	kg	(Estimated)

Appendix 2.5
LCI Data - Web based newspaper with print-out, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
R 116 (hexafluoroethane) [Halogenated organic emissions to air]	Mass	2,51E-07	kg	(Calculated)
R 12 (dichlorodifluoromethane) [Halogenated organic emissions to air]	Mass	2,76E-08	kg	(Estimated)
R 124 (chlorotetrafluoroethane) [Halogenated organic emissions to air]	Mass	0,00E+00	kg	(No statement)
R 13 (chlorotrifluoromethane) [Halogenated organic emissions to air]	Mass	1,64E-08	kg	(Estimated)
R 134a (tetrafluoroethane) [Halogenated organic emissions to air]	Mass	2,41E-05	kg	(No statement)
R 21 (Dichlorofluoromethane) [Halogenated organic emissions to air]	Mass	5,44E-15	kg	(No statement)
R 22 (chlorodifluoromethane) [Halogenated organic emissions to air]	Mass	3,58E-07	kg	(Estimated)
R 23 (trifluoromethane) [Halogenated organic emissions to air]	Mass	1,73E-12	kg	(No statement)
Radioactive emissions (general) [Radioactive emissions to air]	Activity	5,93E-02	Bq	Literature
Radioactive isotopes (unspecific) [Radioactive emissions to air]	Activity	1,02E+01	Bq	(No statement)
Radioactive isotopes (unspecific) [Radioactive emissions to fresh water]	Activity	2,50E+02	Bq	(No statement)
Radioactive tailings [Radioactive waste]	Mass	7,40E-04	kg	(Calculated)
Radium (Ra224) [Radioactive emissions to fresh water]	Activity	2,13E+01	Bq	(No statement)
Radium (Ra224) [Radioactive emissions to sea water]	Activity	1,04E+01	Bq	(No statement)
Radium (Ra226) [Radioactive emissions to air]	Activity	1,57E+00	Bq	(No statement)
Radium (Ra226) [Radioactive emissions to fresh water]	Activity	7,72E+02	Bq	(Literature)
Radium (Ra226) [Radioactive emissions to sea water]	Activity	1,83E+01	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to air]	Activity	3,98E-01	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to fresh water]	Activity	4,27E+01	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to sea water]	Activity	2,07E+01	Bq	(No statement)
Radon (Rn220) [Radioactive emissions to air]	Activity	2,76E-02	Bq	(No statement)
Radon (Rn222) [Air]	Activity	4,57E+06	Bq	(No statement)
Radon (Rn222) [Radioactive emissions to air]	Activity	1,20E+05	Bq	(Literature)
Red mud (wet) (3% NaOH) [Hazardous waste for disposal]	Mass	7,69E-04	kg	Measured
Residues for incineration [Waste for disposal]	Mass	9,91E-07	kg	(No statement)
Rolling tinder [Waste for recovery]	Mass	5,10E-04	kg	Calculated
Rubidium [Inorganic emissions to fresh water]	Mass	6,36E-06	kg	(No statement)
Ruthenium (Ru103) [Radioactive emissions to air]	Activity	7,87E-08	Bq	(No statement)
Ruthenium (Ru103) [Radioactive emissions to fresh water]	Activity	7,65E-05	Bq	(No statement)
Ruthenium (Ru106) [Radioactive emissions to fresh water]	Activity	1,99E-02	Bq	Calculated
Scandium [Fresh water]	Mass	1,40E-06	kg	(No statement)
Scandium [Inorganic emissions to air]	Mass	9,43E-09	kg	(Estimated)
Scandium [Inorganic emissions to fresh water]	Mass	3,35E-07	kg	(No statement)
Selenium [Fresh water]	Mass	2,84E-06	kg	(No statement)
Selenium [Heavy metals to air]	Mass	3,84E-06	kg	(Literature)
Selenium [Heavy metals to fresh water]	Mass	1,51E-06	kg	(Literature)
Selenium [Heavy metals to sea water]	Mass	6,35E-08	kg	(No statement)
Sewage sludge (waste water processing) [Hazardous waste]	Mass	2,28E-04	kg	Calculated
Silicium tetrafluoride [Inorganic emissions to air]	Mass	3,05E-09	kg	(No statement)
Silicon dioxide (silica) [Particles to air]	Mass	0,00E+00	kg	Estimated
Silicon dioxide (silica) [Particles to fresh water]	Mass	0,00E+00	kg	Estimated

Appendix 2.5
LCI Data - Web based newspaper with print-out, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Silver (Ag110m) [Radioactive emissions to air]	Activity	7,80E-07	Bq	(No statement)
Silver (Ag110m) [Radioactive emissions to fresh water]	Activity	4,87E-01	Bq	(Literature)
Silver [Fresh water]	Mass	1,16E-07	kg	(No statement)
Silver [Heavy metals to agricultural soil]	Mass	4,06E-09	kg	(No statement)
Silver [Heavy metals to air]	Mass	5,21E-12	kg	(No statement)
Silver [Heavy metals to fresh water]	Mass	4,01E-07	kg	(Literature)
Silver [Heavy metals to sea water]	Mass	1,24E-07	kg	(No statement)
Slag (Iron plate production) [Waste for recovery]	Mass	5,15E-03	kg	(Measured)
Slag (Mo-containing) [Waste for recovery]	Mass	2,86E-08	kg	Estimated
Slag [Hazardous waste]	Mass	5,70E-04	kg	(Literature)
Slag [Waste for recovery]	Mass	9,31E-04	kg	(Literature)
Sludge [Hazardous waste]	Mass	9,82E-03	kg	(Calculated)
Sludge from water works (6% dry matter-content) [Waste for disposal]	Mass	1,45E-08	kg	(No statement)
Sodium (Na24) [Radioactive emissions to fresh water]	Activity	2,74E-03	Bq	(No statement)
Sodium [Fresh water]	Mass	5,64E-03	kg	(No statement)
Sodium [Inorganic emissions to fresh water]	Mass	1,62E-01	kg	(Literature)
Sodium [Inorganic emissions to sea water]	Mass	6,34E-02	kg	(No statement)
Sodium chlorate [high population density]	Mass	1,44E-06	kg	(No statement)
Sodium chloride (rock salt) [Inorganic intermediate products]	Mass	1,86E-05	kg	Calculated
Sodium dichromate [high population density]	Mass	1,54E-07	kg	(No statement)
Sodium formate [high population density]	Mass	-7,65E-07	kg	(No statement)
Sodium formate [Hydrocarbons to fresh water]	Mass	-1,84E-06	kg	(No statement)
Sodium hypochlorite [Inorganic emissions to fresh water]	Mass	5,45E-08	kg	(Estimated)
Solder paste waste [Hazardous waste for recovery]	Mass	2,35E-05	kg	Estimated
Solids (dissolved) [Analytical measures to fresh water]	Mass	1,34E-02	kg	(Literature)
Solids (suspended) [Fresh water]	Mass	1,14E-01	kg	(No statement)
Solids (suspended) [Particles to fresh water]	Mass	1,00E-02	kg	(Estimated)
Solids (suspended) [Particles to sea water]	Mass	8,90E-03	kg	(No statement)
Spoil [Stockpile goods]	Mass	1,70E-10	kg	Calculated
Steam [Inorganic emissions to air]	Mass	2,43E+00	kg	(Estimated)
Steel works slag [Waste for recovery]	Mass	2,66E-03	kg	Calculated
Strontium (Sr89) [Radioactive emissions to fresh water]	Activity	8,24E-03	Bq	(No statement)
Strontium (Sr90) [Radioactive emissions to fresh water]	Activity	4,17E+02	Bq	(Literature)
Strontium (Sr90) [Radioactive emissions to sea water]	Activity	5,30E+00	Bq	(No statement)
Strontium [Fresh water]	Mass	2,15E-04	kg	(No statement)
Strontium [Heavy metals to agricultural soil]	Mass	2,22E-08	kg	(No statement)
Strontium [Heavy metals to fresh water]	Mass	2,57E-03	kg	(Literature)
Strontium [Heavy metals to industrial soil]	Mass	2,96E-06	kg	(No statement)
Strontium [Heavy metals to sea water]	Mass	1,25E-03	kg	(No statement)
Strontium [Inorganic emissions to air]	Mass	3,21E-06	kg	(Estimated)
Styrene [Group NMVOC to air]	Mass	2,75E-07	kg	Literature
Sulphate [Fresh water]	Mass	4,53E-02	kg	(No statement)
Sulphate [Inorganic emissions to fresh water]	Mass	3,35E-02	kg	(Measured)
Sulphate [Inorganic emissions to sea water]	Mass	2,41E-03	kg	(No statement)
Sulphide [Inorganic emissions to fresh water]	Mass	1,11E-06	kg	(Literature)
Sulphide [Inorganic emissions to sea water]	Mass	4,58E-07	kg	(No statement)
Sulphite [Inorganic emissions to fresh water]	Mass	1,94E-05	kg	(Literature)
Sulphur [Inorganic emissions to agricultural soil]	Mass	1,25E-06	kg	(No statement)
Sulphur [Inorganic emissions to fresh water]	Mass	1,42E-04	kg	(No statement)
Sulphur [Inorganic emissions to industrial soil]	Mass	1,78E-04	kg	(No statement)
Sulphur [Inorganic emissions to sea water]	Mass	3,14E-06	kg	(No statement)

Appendix 2.5
LCI Data - Web based newspaper with print-out, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Sulphur dioxide [Inorganic emissions to air]	Mass	3,49E-01	kg	(Literature)
Sulphur hexafluoride [Inorganic emissions to air]	Mass	1,35E-06	kg	(Literature)
Sulphuric acid [Inorganic emissions to air]	Mass	8,54E-08	kg	(Calculated)
Tailings [Stockpile goods]	Mass	3,64E-01	kg	(Literature)
Tebutam [Pesticides to agricultural soil]	Mass	1,98E-07	kg	(No statement)
Technetium (Tc99m) [Radioactive emissions to fresh water]	Activity	8,37E-03	Bq	(No statement)
Teflubenzuron [Pesticides to agricultural soil]	Mass	3,13E-07	kg	(No statement)
Tellurium (Te123m) [Radioactive emissions to fresh water]	Activity	6,76E-03	Bq	(No statement)
Tellurium (Te132) [Radioactive emissions to fresh water]	Activity	2,10E-05	Bq	(No statement)
Tetrafluoromethane [Halogenated organic emissions to air]	Mass	2,27E-06	kg	(Measured)
Thallium [Fresh water]	Mass	2,55E-06	kg	(No statement)
Thallium [Heavy metals to air]	Mass	1,44E-08	kg	(Calculated)
Thallium [Heavy metals to fresh water]	Mass	5,42E-08	kg	(Measured)
Thorium (Th228) [Radioactive emissions to air]	Activity	1,12E-01	Bq	(No statement)
Thorium (Th228) [Radioactive emissions to fresh water]	Activity	8,53E+01	Bq	(No statement)
Thorium (Th228) [Radioactive emissions to sea water]	Activity	4,14E+01	Bq	(No statement)
Thorium (Th230) [Radioactive emissions to air]	Activity	1,09E+03	Bq	(No statement)
Thorium (Th230) [Radioactive emissions to fresh water]	Activity	8,91E+01	Bq	(No statement)
Thorium (Th232) [Radioactive emissions to air]	Activity	1,24E-01	Bq	(No statement)
Thorium (Th232) [Radioactive emissions to fresh water]	Activity	1,14E-01	Bq	(No statement)
Thorium (Th234) [Radioactive emissions to air]	Activity	3,53E-02	Bq	(No statement)
Thorium (Th234) [Radioactive emissions to fresh water]	Activity	6,53E-01	Bq	(No statement)
Tin [Fresh water]	Mass	2,68E-05	kg	(No statement)
Tin [Heavy metals to agricultural soil]	Mass	1,29E-09	kg	(No statement)
Tin [Heavy metals to air]	Mass	4,50E-07	kg	(Calculated)
Tin [Heavy metals to fresh water]	Mass	3,87E-08	kg	(Literature)
Titanium [Heavy metals to agricultural soil]	Mass	3,75E-08	kg	(No statement)
Titanium [Heavy metals to air]	Mass	3,73E-06	kg	(Estimated)
Titanium [Heavy metals to fresh water]	Mass	1,28E-06	kg	(Literature)
Titanium [Heavy metals to sea water]	Mass	1,04E-08	kg	(No statement)
Toluene (methyl benzene) [Group NMVOC to air]	Mass	3,24E-04	kg	(Literature)
Toluene (methyl benzene) [Hydrocarbons to fresh water]	Mass	5,01E-05	kg	(Literature)
Toluene (methyl benzene) [Hydrocarbons to sea water]	Mass	3,01E-05	kg	(No statement)
Toner waste [STFI-PF import]	Mass	1,06E-03	kg	Literature
Top Cover (E-Paper) [Flows]	Mass	1,66E+00	kg	(Calculated)
Total dissolved organic bounded carbon [Analytical measures to fresh water]	Mass	4,16E-02	kg	(Literature)
Total dissolved organic bounded carbon [Analytical measures to sea water]	Mass	7,43E-03	kg	(No statement)
Total organic bounded carbon [Analytical measures to fresh water]	Mass	6,68E-02	kg	(Measured)
Total organic bounded carbon [Analytical measures to sea water]	Mass	7,43E-03	kg	(No statement)
Total organic carbon, TOC (Ecoinvent) [Fresh water]	Mass	9,61E-02	kg	(No statement)
Treatment residue (mineral) [Stockpile goods]	Mass	6,93E-04	kg	(Calculated)
Tributyltinoxide [Pesticides to sea water]	Mass	2,19E-05	kg	(No statement)
Trichloromethane (chloroform) [Halogenated organic emissions to air]	Mass	2,88E-09	kg	(No statement)
Trichloromethane (chloroform) [Halogenated organic emissions to fresh water]	Mass	5,44E-15	kg	(No statement)
Triethylene glycol [Hydrocarbons to sea water]	Mass	8,85E-07	kg	(No statement)
Tungsten [Fresh water]	Mass	1,10E-06	kg	(No statement)

Appendix 2.5
LCI Data - Web based newspaper with print-out, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Tungsten [Heavy metals to fresh water]	Mass	6,73E-07	kg	(No statement)
Uranium (total) [Radioactive emissions to air]	Activity	2,01E+00	Bq	(Literature)
Uranium (U234) [Radioactive emissions to air]	Activity	4,62E-01	Bq	(Literature)
Uranium (U234) [Radioactive emissions to fresh water]	Activity	7,84E-01	Bq	(No statement)
Uranium (U235) [Radioactive emissions to air]	Activity	2,23E-02	Bq	(Literature)
Uranium (U235) [Radioactive emissions to fresh water]	Activity	1,29E+00	Bq	(No statement)
Uranium (U238) [Radioactive emissions to air]	Activity	1,10E+00	Bq	(Literature)
Uranium (U238) [Radioactive emissions to fresh water]	Activity	2,21E+00	Bq	(No statement)
Uranium (U238) [Radioactive emissions to sea water]	Activity	8,10E-01	Bq	(No statement)
Uranium [Radioactive emissions to fresh water]	Activity	4,37E+01	Bq	(Literature)
Uranium depleted [Radioactive waste]	Mass	1,35E-05	kg	(Calculated)
Uranium spent as residue [Radioactive waste]	Mass	-4,05E-10	kg	(Calculated)
Used air [Other emissions to air]	Mass	8,89E-01	kg	(Measured)
Used oil [Hazardous waste for recovery]	Mass	1,20E-12	kg	(Literature)
Vanadium [Fresh water]	Mass	6,12E-05	kg	(No statement)
Vanadium [Heavy metals to agricultural soil]	Mass	1,07E-09	kg	(No statement)
Vanadium [Heavy metals to air]	Mass	3,99E-05	kg	(Literature)
Vanadium [Heavy metals to fresh water]	Mass	2,19E-06	kg	(Literature)
Vanadium [Heavy metals to sea water]	Mass	1,27E-07	kg	(No statement)
Waste (unspecified) [Consumer waste]	Mass	1,26E-03	kg	(Calculated)
Waste heat [Fresh water]	Energy	1,44E+01	MJ	(No statement)
Waste heat [Other emissions to air]	Energy	6,61E+02	MJ	(Measured)
Waste heat [Other emissions to fresh water]	Energy	1,54E+01	MJ	(Measured)
Waste paper [Waste for recovery]	Mass	1,15E-06	kg	Measured
Waste radioactive [Radioactive waste]	Mass	1,14E-05	kg	(Literature)
Waste water [Other emissions to fresh water]	Mass	4,35E+03	kg	(Literature)
Waste water processing residue [Hazardous waste for recovery]	Mass	3,80E-02	kg	Literature
Water (desalinated; deionized) [Operating materials]	Mass	9,84E-06	kg	Calculated
Wave solder dross [Hazardous waste for recovery]	Mass	9,22E-05	kg	Estimated
Vinyl chloride (VCM; chloroethene) [Halogenated organic emissions to air]	Mass	2,49E-07	kg	Calculated
Vinyl chloride (VCM; chloroethene) [Halogenated organic emissions to fresh water]	Mass	5,28E-09	kg	(No statement)
VOC (unspecified) [Organic emissions to air (group VOC)]	Mass	1,07E-04	kg	(Literature)
VOC [Organic emissions to fresh water]	Mass	1,51E-04	kg	(No statement)
VOC [Organic emissions to sea water]	Mass	7,25E-05	kg	(No statement)
Volatile fission products (inert gases;iodine;C14) [Radioactive waste]	Mass	4,36E-10	kg	(Estimated)
Xenon (Xe131m) [Radioactive emissions to air]	Activity	1,34E+01	Bq	(Literature)
Xenon (Xe133) [Radioactive emissions to air]	Activity	5,43E+02	Bq	(Literature)
Xenon (Xe133m) [Radioactive emissions to air]	Activity	2,78E+00	Bq	(Literature)
Xenon (Xe135) [Radioactive emissions to air]	Activity	2,15E+02	Bq	(Literature)
Xenon (Xe135m) [Radioactive emissions to air]	Activity	1,10E+02	Bq	(Literature)
Xenon (Xe137) [Radioactive emissions to air]	Activity	2,15E+00	Bq	(Literature)
Xenon (Xe138) [Radioactive emissions to air]	Activity	2,05E+01	Bq	(Literature)
Xylene (dimethyl benzene) [Group NMVOC to air]	Mass	3,77E-04	kg	(Calculated)
Xylene (isomers; dimethyl benzene) [Hydrocarbons to fresh water]	Mass	5,19E-05	kg	(Literature)
Xylene (isomers; dimethyl benzene) [Hydrocarbons to sea water]	Mass	2,45E-05	kg	(No statement)
Xylene (meta-Xylene; 1,3-Dimethylbenzene) [Group NMVOC to air]	Mass	5,09E-06	kg	(No statement)

Appendix 2.5
LCI Data - Web based newspaper with print-out, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Zinc (Zn65) [Radioactive emissions to air]	Activity	1,51E-05	Bq	(No statement)
Zinc (Zn65) [Radioactive emissions to fresh water]	Activity	3,72E-02	Bq	(No statement)
Zinc [Fresh water]	Mass	9,03E-04	kg	(No statement)
Zinc [Heavy metals to agricultural soil]	Mass	2,22E-05	kg	(No statement)
Zinc [Heavy metals to air]	Mass	5,91E-05	kg	(Literature)
Zinc [Heavy metals to fresh water]	Mass	2,32E-04	kg	(Literature)
Zinc [Heavy metals to industrial soil]	Mass	1,16E-04	kg	Measured
Zinc [Heavy metals to sea water]	Mass	1,33E-04	kg	(No statement)
Zinc sulphate [Inorganic emissions to air]	Mass	1,22E-08	kg	Measured
Zirconium (Zr) [Air]	Mass	1,91E-09	kg	(No statement)
Zirconium (Zr95) [Radioactive emissions to air]	Activity	1,47E-05	Bq	(No statement)
Zirconium (Zr95) [Radioactive emissions to fresh water]	Activity	4,30E-04	Bq	(No statement)

Appendix 2.6 LCI Data - Web based newspaper 30 minutes reading, European scenario

In the tables below the LCI data for the studied system "Web based newspaper 30 minutes reading, European scenario" are presented. The data are divided as inputs to the system and outputs from the system.

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Air [Operating materials]	Mass	1,07E-16	kg	Estimated
Air [Renewable resources]	Mass	3,64E+01	kg	(Calculated)
Aluminum [Non renewable elements]	Mass	3,76E-03	kg	(No statement)
Antimonite [Non renewable resources]	Mass	6,77E-11	kg	(No statement)
Barium sulphate [Non renewable resources]	Mass	4,91E-03	kg	(No statement)
Basalt [Non renewable resources]	Mass	3,46E-04	kg	(No statement)
Bauxite [Non renewable resources]	Mass	3,16E-02	kg	Calculated
Bentonite [Non renewable resources]	Mass	2,21E-03	kg	(Literature)
Borax [Non renewable resources]	Mass	1,34E-07	kg	(No statement)
Calcium chloride [Non renewable resources]	Mass	2,34E-11	kg	Literature
Carbon dioxide [Renewable resources]	Mass	7,41E-01	kg	Calculated
Catalyst [Operating materials]	Mass	9,83E-07	kg	Calculated
Chromium [Non renewable elements]	Mass	6,69E-04	kg	(No statement)
Chrysotile [Non renewable resources]	Mass	9,34E-08	kg	(No statement)
Cinnabar [Non renewable resources]	Mass	8,89E-09	kg	(No statement)
Circuit material (Fe carrier) [Metals]	Mass	1,14E-08	kg	Calculated
Clay [Non renewable resources]	Mass	2,25E-02	kg	(No statement)
Cobalt [Non renewable elements]	Mass	1,27E-09	kg	(No statement)
Colemanite ore [Non renewable resources]	Mass	5,65E-04	kg	Calculated
Cooling water [Operating materials]	Mass	1,73E+01	kg	(Measured)
Copper [Non renewable elements]	Mass	2,05E-03	kg	(No statement)
Copper ore (0.14%) [Non renewable resources]	Mass	7,67E+00	kg	Measured
Copper ore (0.3%) [Non renewable resources]	Mass	3,12E-08	kg	Estimated
Crude oil [Crude oil (resource)]	Mass	6,58E-01	kg	(Literature)
Crude oil Algeria [Crude oil (resource)]	Mass	9,63E-03	kg	(Literature)
Crude oil Angola [Crude oil (resource)]	Mass	3,71E-03	kg	(Estimated)
Crude oil Argentina [Crude oil (resource)]	Mass	2,25E-05	kg	Literature
Crude oil Australia [Crude oil (resource)]	Mass	8,62E-04	kg	(Estimated)
Crude oil Brazil [Crude oil (resource)]	Mass	4,87E-04	kg	Literature
Crude oil Cameroon [Crude oil (resource)]	Mass	1,51E-03	kg	(Estimated)
Crude oil Canada [Crude oil (resource)]	Mass	1,28E-02	kg	(Literature)
Crude oil Central Africa [Crude oil (resource)]	Mass	1,26E-04	kg	(Calculated)
Crude oil Central America [Crude oil (resource)]	Mass	7,72E-05	kg	(Calculated)
Crude oil China [Crude oil (resource)]	Mass	6,54E-02	kg	(Calculated)
Crude oil CIS [Crude oil (resource)]	Mass	4,06E-02	kg	(Literature)
Crude oil Colombia [Crude oil (resource)]	Mass	4,95E-06	kg	(Literature)
Crude oil Denmark [Crude oil (resource)]	Mass	1,49E-04	kg	(Literature)
Crude oil Egypt [Crude oil (resource)]	Mass	4,28E-03	kg	(Estimated)
Crude oil France [Crude oil (resource)]	Mass	1,20E-04	kg	(Literature)
Crude oil free wellhead [Crude oil (resource)]	Mass	-3,93E-06	kg	Literature
Crude oil Gabon [Crude oil (resource)]	Mass	2,01E-04	kg	(Estimated)
Crude oil Germany [Crude oil (resource)]	Mass	4,13E-03	kg	(Literature)
Crude oil Indonesia [Crude oil (resource)]	Mass	2,46E-04	kg	(Estimated)
Crude oil Iran [Crude oil (resource)]	Mass	1,95E-02	kg	(Estimated)

Appendix 2.6
LCI Data - Web based newspaper 30 minutes reading, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Crude oil Italy [Crude oil (resource)]	Mass	4,39E-03	kg	(Literature)
Crude oil Kuwait [Crude oil (resource)]	Mass	1,82E-03	kg	(Estimated)
Crude oil Libya [Crude oil (resource)]	Mass	3,85E-02	kg	(Literature)
Crude oil Mexico [Crude oil (resource)]	Mass	1,41E-03	kg	(Literature)
Crude oil Middle East [Crude oil (resource)]	Mass	3,33E-04	kg	(Calculated)
Crude oil Netherlands [Crude oil (resource)]	Mass	4,07E-04	kg	(Literature)
Crude oil New Zealand [Crude oil (resource)]	Mass	3,00E-05	kg	(Estimated)
Crude oil Nigeria [Crude oil (resource)]	Mass	9,93E-03	kg	(Estimated)
Crude oil North Africa [Crude oil (resource)]	Mass	2,40E-04	kg	(Calculated)
Crude oil Norway [Crude oil (resource)]	Mass	3,32E-02	kg	(Literature)
Crude oil Oman [Crude oil (resource)]	Mass	3,45E-03	kg	(Estimated)
Crude oil Qatar [Crude oil (resource)]	Mass	9,99E-05	kg	(Estimated)
Crude oil Saudi Arabia [Crude oil (resource)]	Mass	2,90E-02	kg	(Estimated)
Crude oil Tunisia [Crude oil (resource)]	Mass	1,99E-04	kg	(Literature)
Crude oil United Arab Emirates [Crude oil (resource)]	Mass	1,28E-04	kg	(Estimated)
Crude oil United Kingdom [Crude oil (resource)]	Mass	3,20E-02	kg	(Literature)
Crude oil USA [Crude oil (resource)]	Mass	1,40E-04	kg	(Literature)
Crude oil Venezuela [Crude oil (resource)]	Mass	8,53E-03	kg	(Literature)
Diatomite [Non renewable resources]	Mass	6,52E-10	kg	(No statement)
Dolomite [Non renewable resources]	Mass	2,19E-04	kg	(Literature)
Energy, calorific value, in organic substance [biotic]	Energy ren.	8,15E+00	MJ	(No statement)
Feldspar (aluminum silicates) [Non renewable resources]	Mass	8,41E-11	kg	(No statement)
Fluorine [Non renewable elements]	Mass	6,73E-06	kg	(No statement)
Fluorspar (calcium fluoride; fluorite) [Non renewable resources]	Mass	6,65E-04	kg	Calculated
Granite [Non renewable resources]	Mass	2,53E-07	kg	(No statement)
Gypsum (natural gypsum) [Non renewable resources]	Mass	6,39E-07	kg	(No statement)
Hard coal [Hard coal (resource)]	Mass	3,71E+00	kg	(Literature)
Hard coal Australia [Hard coal (resource)]	Mass	1,69E-02	kg	(Calculated)
Hard coal Belgium [Hard coal (resource)]	Mass	1,16E-03	kg	(Calculated)
Hard coal Brazil [Hard coal (resource)]	Mass	1,07E-04	kg	Estimated
Hard coal Canada [Hard coal (resource)]	Mass	6,86E-03	kg	(Calculated)
Hard coal China [Hard coal (resource)]	Mass	1,21E+00	kg	(Calculated)
Hard coal CIS [Hard coal (resource)]	Mass	7,38E-03	kg	(Calculated)
Hard coal Colombia [Hard coal (resource)]	Mass	1,49E-02	kg	(Measured)
Hard coal Czech Republic [Hard coal (resource)]	Mass	7,82E-03	kg	(Measured)
Hard coal France [Hard coal (resource)]	Mass	1,41E-02	kg	(Calculated)
Hard coal Germany [Hard coal (resource)]	Mass	2,27E-01	kg	(Calculated)
Hard coal Indonesia [Hard coal (resource)]	Mass	6,27E-03	kg	(Measured)
Hard coal Japan [Hard coal (resource)]	Mass	1,12E-05	kg	(Calculated)
Hard coal Poland [Hard coal (resource)]	Mass	3,00E-02	kg	(Calculated)
Hard coal Portugal [Hard coal (resource)]	Mass	2,10E-04	kg	Estimated
Hard coal South Africa [Hard coal (resource)]	Mass	1,38E-01	kg	(Measured)
Hard coal Spain [Hard coal (resource)]	Mass	2,79E-02	kg	(Calculated)
Hard coal United Kingdom [Hard coal (resource)]	Mass	3,61E-03	kg	(Calculated)
Hard coal USA [Hard coal (resource)]	Mass	7,08E-02	kg	(Calculated)
Hard coal Venezuela [Hard coal (resource)]	Mass	1,56E-02	kg	(Measured)
Heavy spar (barytes) [Non renewable resources]	Mass	3,79E-03	kg	(Literature)
Inert rock [Non renewable resources]	Mass	1,02E+01	kg	(Literature)
Iron [Non renewable elements]	Mass	3,80E-02	kg	(Estimated)
Iron ore (65%) [Non renewable resources]	Mass	3,83E-04	kg	(Estimated)
Iron ore [Non renewable resources]	Mass	4,38E-01	kg	(Calculated)

Appendix 2.6
LCI Data - Web based newspaper 30 minutes reading, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Kaolin ore [Non renewable resources]	Mass	6,57E-03	kg	Measured
Kaolinite (24% in ore as mined) [Non renewable resources]	Mass	3,97E-05	kg	(No statement)
Kieserite (25% in ore as mined) [Non renewable resources]	Mass	2,39E-07	kg	(No statement)
Lead - zinc ore (4.6%-0.6%) [Non renewable resources]	Mass	2,80E-02	kg	Calculated
Lead [Non renewable elements]	Mass	1,49E-03	kg	(No statement)
Lead ore [Non renewable resources]	Mass	5,28E-04	kg	Estimated
Lignite [Lignite (resource)]	Mass	4,73E+00	kg	(Estimated)
Lignite Australia [Lignite (resource)]	Mass	1,09E-03	kg	Literature
Lignite Australia [Lignite (resource)]	Mass	1,10E-04	kg	Literature
Lignite Austria [Lignite (resource)]	Mass	1,44E-06	kg	(Estimated)
Lignite France [Lignite (resource)]	Mass	1,68E-06	kg	Calculated
Lignite Germany (Lausitz) [Lignite (resource)]	Mass	1,24E-04	kg	Calculated
Lignite Germany (Rheinisch) [Lignite (resource)]	Mass	1,53E-02	kg	(Calculated)
Lignite Germany [Lignite (resource)]	Mass	5,84E-01	kg	(Literature)
Lignite Greece [Lignite (resource)]	Mass	2,64E-01	kg	Literature
Lignite Spain [Lignite (resource)]	Mass	5,31E-02	kg	(Literature)
Lignite USA [Lignite (resource)]	Mass	1,56E-04	kg	Literature
Limestone (calcium carbonate) [Non renewable resources]	Mass	2,91E-01	kg	(Literature)
Magnesit (Magnesium carbonate) [Non renewable resources]	Mass	4,46E-04	kg	(No statement)
Magnesium [Non renewable elements]	Mass	3,92E-08	kg	(No statement)
Manganese [Non renewable elements]	Mass	8,21E-05	kg	(No statement)
Manganese ore (R.O.M.) [Non renewable resources]	Mass	2,28E-03	kg	Calculated
Molybdenite (Mo 0,24%) [Non renewable resources]	Mass	7,05E-05	kg	Estimated
Molybdenum [Non renewable elements]	Mass	1,15E-04	kg	(No statement)
Natural Aggregate [Non renewable resources]	Mass	5,30E-01	kg	Calculated
Natural gas [Natural gas (resource)]	Mass	1,50E+00	kg	(Literature)
Natural gas Algeria [Natural gas (resource)]	Mass	1,64E-02	kg	(Literature)
Natural gas Angola [Natural gas (resource)]	Mass	3,01E-04	kg	(Estimated)
Natural gas Argentina [Natural gas (resource)]	Mass	7,38E-07	kg	Literature
Natural gas Australia [Natural gas (resource)]	Mass	3,43E-04	kg	(Estimated)
Natural gas Brazil [Natural gas (resource)]	Mass	1,22E-04	kg	(Estimated)
Natural gas Brunei [Natural gas (resource)]	Mass	1,27E-05	kg	Estimated
Natural gas Cameroon [Natural gas (resource)]	Mass	1,22E-04	kg	(Estimated)
Natural gas Canada [Natural gas (resource)]	Mass	3,23E-04	kg	(Literature)
Natural gas China [Natural gas (resource)]	Mass	3,71E-03	kg	(Calculated)
Natural gas CIS [Natural gas (resource)]	Mass	2,08E-01	kg	(Literature)
Natural gas Colombia [Natural gas (resource)]	Mass	1,88E-07	kg	(Literature)
Natural gas Denmark [Natural gas (resource)]	Mass	5,61E-03	kg	(Estimated)
Natural gas Egypt [Natural gas (resource)]	Mass	3,47E-04	kg	(Estimated)
Natural gas France [Natural gas (resource)]	Mass	5,21E-04	kg	(Estimated)
Natural gas Gabon [Natural gas (resource)]	Mass	1,67E-05	kg	(Estimated)
Natural gas Germany [Natural gas (resource)]	Mass	1,11E-01	kg	(Literature)
Natural gas Indonesia [Natural gas (resource)]	Mass	6,23E-05	kg	(Estimated)
Natural gas Iran [Natural gas (resource)]	Mass	7,27E-04	kg	(Estimated)
Natural gas Italy [Natural gas (resource)]	Mass	8,89E-03	kg	(Literature)
Natural gas Japan [Natural gas (resource)]	Mass	3,63E-06	kg	Estimated
Natural gas Kuwait [Natural gas (resource)]	Mass	6,81E-05	kg	(Estimated)
Natural gas Libyan [Natural gas (resource)]	Mass	3,72E-03	kg	(Literature)
Natural gas Malaysia [Natural gas (resource)]	Mass	1,80E-05	kg	Estimated
Natural gas Mexico [Natural gas (resource)]	Mass	4,64E-05	kg	(Literature)

Appendix 2.6
LCI Data - Web based newspaper 30 minutes reading, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Natural gas Netherlands [Natural gas (resource)]	Mass	1,88E-01	kg	(Estimated)
Natural gas New Zealand [Natural gas (resource)]	Mass	6,63E-07	kg	(Estimated)
Natural gas Nigeria [Natural gas (resource)]	Mass	8,05E-04	kg	(Estimated)
Natural gas Norway [Natural gas (resource)]	Mass	8,86E-02	kg	(Estimated)
Natural gas Oman [Natural gas (resource)]	Mass	1,29E-04	kg	(Estimated)
Natural gas Qatar [Natural gas (resource)]	Mass	3,73E-06	kg	(Estimated)
Natural gas Saudi Arabia [Natural gas (resource)]	Mass	1,08E-03	kg	(Estimated)
Natural gas Spain [Natural gas (resource)]	Mass	1,59E-04	kg	(Estimated)
Natural gas Tunisia [Natural gas (resource)]	Mass	1,61E-05	kg	(Literature)
Natural gas United Arab Emirates [Natural gas (resource)]	Mass	1,39E-05	kg	(Estimated)
Natural gas United Kingdom [Natural gas (resource)]	Mass	4,43E-03	kg	(Literature)
Natural gas USA [Natural gas (resource)]	Mass	4,25E-04	kg	(Estimated)
Natural gas Venezuela [Natural gas (resource)]	Mass	5,02E-04	kg	(Literature)
Nickel [Non renewable elements]	Mass	1,84E-03	kg	(No statement)
Nickel ore (1.6%) [Non renewable resources]	Mass	2,14E-02	kg	Measured
Nitrogen [Renewable resources]	Mass	1,38E-06	kg	(Literature)
Occupation, arable, non-irrigated [Hemerobie ecoinvent]	Areatime	1,78E-04	m2*yr	(No statement)
Occupation, construction site [Hemerobie ecoinvent]	Areatime	4,41E-04	m2*yr	(No statement)
Occupation, dump site [Hemerobie ecoinvent]	Areatime	2,26E-02	m2*yr	(No statement)
Occupation, dump site, benthos [Hemerobie ecoinvent]	Areatime	8,83E-04	m2*yr	(No statement)
Occupation, forest, intensive [Hemerobie ecoinvent]	Areatime	6,45E-04	m2*yr	(No statement)
Occupation, forest, intensive, normal [Hemerobie ecoinvent]	Areatime	3,41E-01	m2*yr	(No statement)
Occupation, industrial area [Hemerobie ecoinvent]	Areatime	1,34E-02	m2*yr	(No statement)
Occupation, industrial area, benthos [Hemerobie ecoinvent]	Areatime	8,77E-06	m2*yr	(No statement)
Occupation, industrial area, built up [Hemerobie ecoinvent]	Areatime	9,44E-04	m2*yr	(No statement)
Occupation, industrial area, vegetation [Hemerobie ecoinvent]	Areatime	7,57E-04	m2*yr	(No statement)
Occupation, mineral extraction site [Hemerobie ecoinvent]	Areatime	1,62E-02	m2*yr	(No statement)
Occupation, permanent crop, fruit, intensive [Hemerobie ecoinvent]	Areatime	2,84E-05	m2*yr	(No statement)
Occupation, shrub land, sclerophyllous [Hemerobie ecoinvent]	Areatime	1,04E-04	m2*yr	(No statement)
Occupation, traffic area, rail embankment [Hemerobie ecoinvent]	Areatime	6,62E-04	m2*yr	(No statement)
Occupation, traffic area, rail network [Hemerobie ecoinvent]	Areatime	7,32E-04	m2*yr	(No statement)
Occupation, traffic area, road embankment [Hemerobie ecoinvent]	Areatime	3,41E-03	m2*yr	(No statement)
Occupation, traffic area, road network [Hemerobie ecoinvent]	Areatime	2,34E-03	m2*yr	(No statement)
Occupation, urban, discontinuously built [Hemerobie ecoinvent]	Areatime	3,71E-07	m2*yr	(No statement)
Occupation, water bodies, artificial [Hemerobie ecoinvent]	Areatime	4,56E-02	m2*yr	(No statement)
Occupation, water courses, artificial [Hemerobie ecoinvent]	Areatime	1,79E-02	m2*yr	(No statement)
Olivine [Non renewable resources]	Mass	7,19E-09	kg	(No statement)
Palladium [Non renewable elements]	Mass	2,57E-09	kg	(No statement)
Peat [Renewable resources]	Mass	5,02E-02	kg	(No statement)
Phosphorus [Non renewable elements]	Mass	2,71E-05	kg	(No statement)
Phosphorus minerals [Non renewable resources]	Mass	6,13E-07	kg	Literature

Appendix 2.6
LCI Data - Web based newspaper 30 minutes reading, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Pit gas [Natural gas (resource)]	Mass	5,19E-02	kg	(Literature)
Platinum [Non renewable elements]	Mass	4,24E-10	kg	(No statement)
Potassium chloride [Non renewable resources]	Mass	2,16E-05	kg	Calculated
Precious metal ore (R.O.M) [Non renewable resources]	Mass	4,92E-01	kg	Calculated
Primary energy from hydro power (BUWAL) [Renewable energy resources]	Energy ren.	-2,81E-04	MJ	Literature
Primary energy from hydro power [Renewable energy resources]	Energy ren.	3,95E+01	MJ	(Literature)
Primary energy from solar energy [Renewable energy resources]	Energy ren.	9,47E-02	MJ	Literature
Primary energy from wind power [Renewable energy resources]	Energy ren.	4,54E+00	MJ	Calculated
Process and cooling water [Operating materials]	Mass	8,62E-09	kg	Literature
Process water [Operating materials]	Mass	5,38E+01	kg	(Measured)
Quartz sand (silica sand; silicon dioxide) [Non renewable resources]	Mass	1,37E-02	kg	(Literature)
Raw brown coal (BUWAL) [Lignite (resource)]	Mass	-4,63E-07	kg	Literature
Raw hard coal (BUWAL) [Hard coal (resource)]	Mass	-3,99E-07	kg	Literature
Raw natural gas (BUWAL) [Natural gas (resource)]	Mass	-6,52E-07	kg	Literature
Refractory [Minerals]	Mass	4,26E-12	kg	Measured
Renewable fuels [Renewable energy resources]	Mass	-4,89E-06	kg	Calculated
Rhenium [Non renewable elements]	Mass	1,96E-11	kg	(No statement)
Rhodium [Non renewable elements]	Mass	7,12E-11	kg	(No statement)
Rutile (titanium ore) [Non renewable resources]	Mass	2,81E-11	kg	(No statement)
sand [Non renewable resources]	Mass	2,21E-05	kg	(No statement)
Silver [Non renewable elements]	Mass	1,90E-08	kg	(No statement)
Slate [Non renewable resources]	Mass	4,60E-08	kg	(No statement)
Sodium chloride (rock salt) [Non renewable resources]	Mass	1,77E-01	kg	(Literature)
Sodium sulphate [Non renewable resources]	Mass	7,48E-05	kg	Literature
Soil [Non renewable resources]	Mass	1,77E-02	kg	(Calculated)
Steel scrap (St) [Waste for recovery]	Mass	2,79E-02	kg	Calculated
Sulphite [Inorganic emissions to sea water]	Mass	6,57E-16	kg	(No statement)
Sulphur (bonded) [Non renewable resources]	Mass	1,46E-07	kg	(Literature)
Sulphur [Non renewable elements]	Mass	1,07E-05	kg	(Literature)
Sylvite (25% in Sylvinite) [Non renewable resources]	Mass	1,06E-05	kg	(No statement)
Talc [Non renewable resources]	Mass	4,58E-04	kg	Calculated
Tin [Non renewable elements]	Mass	5,03E-07	kg	(No statement)
Tin ore [Non renewable resources]	Mass	2,13E-03	kg	Estimated
Titanium dioxide [Non renewable resources]	Mass	5,10E-04	kg	(No statement)
Titanium ore [Non renewable resources]	Mass	6,76E-06	kg	(No statement)
Transformation, from arable [Hemerobie ecoinvent]	Area	1,43E-05	sqm	(No statement)
Transformation, from arable, non-irrigated [Hemerobie ecoinvent]	Area	3,29E-04	sqm	(No statement)
Transformation, from arable, non-irrigated, fallow [Hemerobie ecoinvent]	Area	2,42E-07	sqm	(No statement)
Transformation, from dump site, inert material landfill [Hemerobie ecoinvent]	Area	1,28E-05	sqm	(No statement)
Transformation, from dump site, residual material landfill [Hemerobie ecoinvent]	Area	7,18E-06	sqm	(No statement)
Transformation, from dump site, sanitary landfill [Hemerobie ecoinvent]	Area	4,93E-07	sqm	(No statement)
Transformation, from dump site, slag compartment [Hemerobie ecoinvent]	Area	2,58E-07	sqm	(No statement)
Transformation, from forest [Hemerobie ecoinvent]	Area	1,11E-03	sqm	(No statement)
Transformation, from forest, extensive [Hemerobie	Area	2,43E-03	sqm	(No statement)

Flow - Inputs	Quantity	Amount	Unit	Origin of data
ecoinvent]				
Transformation, from industrial area [Hemerobie ecoinvent]	Area	3,78E-05	sqm	(No statement)
Transformation, from industrial area, benthos [Hemerobie ecoinvent]	Area	4,31E-08	sqm	(No statement)
Transformation, from industrial area, built up [Hemerobie ecoinvent]	Area	6,65E-09	sqm	(No statement)
Transformation, from industrial area, vegetation [Hemerobie ecoinvent]	Area	1,13E-08	sqm	(No statement)
Transformation, from mineral extraction site [Hemerobie ecoinvent]	Area	2,51E-04	sqm	(No statement)
Transformation, from pasture and meadow [Hemerobie ecoinvent]	Area	1,58E-04	sqm	(No statement)
Transformation, from pasture and meadow, intensive [Hemerobie ecoinvent]	Area	2,65E-07	sqm	(No statement)
Transformation, from sea and ocean [Hemerobie ecoinvent]	Area	8,83E-04	sqm	(No statement)
Transformation, from shrub land, sclerophyllous [Hemerobie ecoinvent]	Area	1,25E-04	sqm	(No statement)
Transformation, from unknown [Hemerobie ecoinvent]	Area	1,24E-03	sqm	(No statement)
Transformation, to arable [Hemerobie ecoinvent]	Area	3,00E-04	sqm	(No statement)
Transformation, to arable, non-irrigated [Hemerobie ecoinvent]	Area	3,29E-04	sqm	(No statement)
Transformation, to arable, non-irrigated, fallow [Hemerobie ecoinvent]	Area	3,44E-07	sqm	(No statement)
Transformation, to dump site [Hemerobie ecoinvent]	Area	1,84E-04	sqm	(No statement)
Transformation, to dump site, benthos [Hemerobie ecoinvent]	Area	8,83E-04	sqm	(No statement)
Transformation, to dump site, inert material landfill [Hemerobie ecoinvent]	Area	1,28E-05	sqm	(No statement)
Transformation, to dump site, residual material landfill [Hemerobie ecoinvent]	Area	7,18E-06	sqm	(No statement)
Transformation, to dump site, sanitary landfill [Hemerobie ecoinvent]	Area	4,93E-07	sqm	(No statement)
Transformation, to dump site, slag compartment [Hemerobie ecoinvent]	Area	2,58E-07	sqm	(No statement)
Transformation, to forest [Hemerobie ecoinvent]	Area	5,62E-05	sqm	(No statement)
Transformation, to forest, intensive [Hemerobie ecoinvent]	Area	4,30E-06	sqm	(No statement)
Transformation, to forest, intensive, normal [Hemerobie ecoinvent]	Area	2,40E-03	sqm	(No statement)
Transformation, to heterogeneous, agricultural [Hemerobie ecoinvent]	Area	5,07E-05	sqm	(No statement)
Transformation, to industrial area [Hemerobie ecoinvent]	Area	2,54E-04	sqm	(No statement)
Transformation, to industrial area, benthos [Hemerobie ecoinvent]	Area	3,25E-07	sqm	(No statement)
Transformation, to industrial area, built up [Hemerobie ecoinvent]	Area	3,07E-05	sqm	(No statement)
Transformation, to industrial area, vegetation [Hemerobie ecoinvent]	Area	2,16E-05	sqm	(No statement)
Transformation, to mineral extraction site [Hemerobie ecoinvent]	Area	1,40E-03	sqm	(No statement)
Transformation, to pasture and meadow [Hemerobie ecoinvent]	Area	5,46E-06	sqm	(No statement)
Transformation, to permanent crop, fruit, intensive [Hemerobie ecoinvent]	Area	4,79E-07	sqm	(No statement)
Transformation, to sea and ocean [Hemerobie ecoinvent]	Area	4,31E-08	sqm	(No statement)
Transformation, to shrub land, sclerophyllous [Hemerobie	Area	2,07E-05	sqm	(No statement)

Appendix 2.6
LCI Data - Web based newspaper 30 minutes reading, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
ecoinvent]				
Transformation, to traffic area, rail embankment [Hemerobie ecoinvent]	Area	1,54E-06	sqm	(No statement)
Transformation, to traffic area, rail network [Hemerobie ecoinvent]	Area	1,69E-06	sqm	(No statement)
Transformation, to traffic area, road embankment [Hemerobie ecoinvent]	Area	2,38E-05	sqm	(No statement)
Transformation, to traffic area, road network [Hemerobie ecoinvent]	Area	3,51E-05	sqm	(No statement)
Transformation, to unknown [Hemerobie ecoinvent]	Area	3,32E-05	sqm	(No statement)
Transformation, to urban, discontinuously built [Hemerobie ecoinvent]	Area	7,40E-09	sqm	(No statement)
Transformation, to water bodies, artificial [Hemerobie ecoinvent]	Area	3,30E-04	sqm	(No statement)
Transformation, to water courses, artificial [Hemerobie ecoinvent]	Area	2,17E-04	sqm	(No statement)
Ulexite [Non renewable resources]	Mass	2,16E-06	kg	(No statement)
Uranium free ore (BUWAL) [Uranium (resource)]	Mass	-1,29E-08	kg	Literature
Uranium free ore [Uranium (resource)]	Mass	1,97E-16	kg	Literature
Uranium natural [Uranium (resource)]	Mass	3,37E-04	kg	(Literature)
Waste for recovery (unspecified) [Waste for recovery]	Mass	2,99E-01	kg	(No statement)
Water (feed water) [Water]	Mass	1,27E-02	kg	(Literature)
Water (ground water) [Water]	Mass	3,74E+01	kg	(Estimated)
Water (lake water) [Water]	Mass	2,22E-01	kg	(No statement)
Water (river water) [Water]	Mass	1,23E+02	kg	(No statement)
Water (sea water) [Water]	Mass	1,89E+01	kg	(Literature)
Water (surface water) [Water]	Mass	1,88E+02	kg	(Literature)
Water [Water]	Mass	6,68E+02	kg	(Literature)
Water for industrial use [Operating materials]	Mass	5,80E+00	kg	(Calculated)
Water, salt, sole [in water]	Volume	5,07E-04	m3	(No statement)
Water,turbine use, unspecified natural origin [in water]	Volume	1,78E+02	m3	(No statement)
Vermiculite [Non renewable resources]	Mass	2,12E-07	kg	(No statement)
Volume occupied, final repository for low-active radioactive waste [Hemerobie ecoinvent]	Volume	5,90E-07	m3	(No statement)
Volume occupied, final repository for radioactive waste [Hemerobie ecoinvent]	Volume	1,49E-07	m3	(No statement)
Volume occupied, reservoir [Hemerobie ecoinvent]	Cubic meter years	5,99E-01	m3a	(No statement)
Volume occupied, underground deposit [Hemerobie ecoinvent]	Volume	2,91E-07	m3	(No statement)
Wood (BUWAL) [Renewable energy resources]	Mass	-9,13E-03	kg	Literature
Wood [Renewable energy resources]	Mass	7,18E-03	kg	(Estimated)
Wood, hard, standing [biotic]	Volume	2,45E-04	m3	(No statement)
Wood, soft, standing [biotic]	Volume	5,48E-04	m3	(No statement)
Zinc - copper ore (4.07%-2.59%) [Non renewable resources]	Mass	3,67E-01	kg	(Estimated)
Zinc - lead - copper ore (12%-3%-2%) [Non renewable resources]	Mass	2,74E-01	kg	Calculated
Zinc - lead ore (4.21%-4.96%) [Non renewable resources]	Mass	4,36E-10	kg	Estimated
Zinc [Non renewable elements]	Mass	5,92E-05	kg	(No statement)
Zinc ore (sulphide) [Non renewable resources]	Mass	3,02E-11	kg	Calculated

Appendix 2.6
LCI Data - Web based newspaper 30 minutes reading, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Acenaphthene [Hydrocarbons to fresh water]	Mass	1,69E-10	kg	(No statement)
Acenaphthene [Hydrocarbons to sea water]	Mass	8,45E-11	kg	(No statement)
Acenaphthylene [Hydrocarbons to fresh water]	Mass	1,06E-11	kg	(No statement)
Acenaphthylene [Hydrocarbons to sea water]	Mass	5,29E-12	kg	(No statement)
Acentaphthene [Group NMVOC to air]	Mass	4,56E-11	kg	(No statement)
Acetaldehyde (Ethanal) [Group NMVOC to air]	Mass	7,74E-06	kg	(Literature)
Acetic acid [Group NMVOC to air]	Mass	3,77E-05	kg	(Literature)
Acetic acid [Hydrocarbons to fresh water]	Mass	3,72E-07	kg	(No statement)
Acetone (dimethylcetone) [Group NMVOC to air]	Mass	1,01E-05	kg	(Literature)
Acid (calculated as H+) [Inorganic emissions to fresh water]	Mass	4,51E-05	kg	(Literature)
Aclonifen [Pesticides to agricultural soil]	Mass	5,35E-10	kg	(No statement)
Acrolein [Group NMVOC to air]	Mass	2,94E-09	kg	(No statement)
Acrylonitrile [Hydrocarbons to fresh water]	Mass	3,05E-05	kg	(Calculated)
Adsorbable organic halogen compounds (AOX) [Analytical measures to fresh water]	Mass	1,25E-04	kg	(Measured)
Adsorbable organic halogen compounds (AOX) [Analytical measures to sea water]	Mass	6,93E-09	kg	(No statement)
Aktinide (general) [Radioactive emissions to air]	Activity	6,50E-06	Bq	(No statement)
Aktinide (general) [Radioactive emissions to sea water]	Activity	8,37E-01	Bq	(No statement)
Aldehyde (unspecified) [Group NMVOC to air]	Mass	3,17E-07	kg	(Literature)
Alkane (unspecified) [Group NMVOC to air]	Mass	1,16E-04	kg	(Calculated)
Alkane (unspecified) [Hydrocarbons to fresh water]	Mass	3,53E-06	kg	(No statement)
Alkane (unspecified) [Hydrocarbons to sea water]	Mass	1,77E-06	kg	(No statement)
Alkene (unspecified) [Group NMVOC to air]	Mass	7,91E-05	kg	(Calculated)
Alkene (unspecified) [Hydrocarbons to fresh water]	Mass	3,26E-07	kg	(No statement)
Alkene (unspecified) [Hydrocarbons to sea water]	Mass	1,63E-07	kg	(No statement)
Aluminum [Fresh water]	Mass	1,30E-02	kg	(No statement)
Aluminum [Inorganic emissions to agricultural soil]	Mass	1,83E-05	kg	(No statement)
Aluminum [Inorganic emissions to fresh water]	Mass	1,47E-04	kg	(Literature)
Aluminum [Inorganic emissions to industrial soil]	Mass	2,38E-05	kg	(No statement)
Aluminum [Inorganic emissions to sea water]	Mass	1,02E-05	kg	(No statement)
Aluminum [Particles to air]	Mass	5,17E-04	kg	(No statement)
Aluminum scrap [Waste for recovery]	Mass	3,31E-06	kg	Measured
Americium (Am241) [Radioactive emissions to fresh water]	Activity	5,74E-02	Bq	Calculated
Ammonia [Inorganic emissions to air]	Mass	3,73E-04	kg	(Calculated)
Ammonia [Inorganic emissions to fresh water]	Mass	1,39E-06	kg	(Measured)
Ammonium / ammonia [Fresh water]	Mass	1,42E-06	kg	(No statement)
Ammonium / ammonia [Inorganic emissions to fresh water]	Mass	1,67E-04	kg	(Literature)
Ammonium / ammonia [Inorganic emissions to sea water]	Mass	9,83E-07	kg	(No statement)
Ammonium [Inorganic emissions to air]	Mass	7,65E-06	kg	Measured
Ammonium carbonate [high population density]	Mass	8,63E-09	kg	(No statement)
Ammonium nitrate [Inorganic emissions to air]	Mass	8,62E-10	kg	(Literature)
Antimony (Sb122) [Radioactive emissions to fresh water]	Activity	1,96E-04	Bq	(No statement)
Antimony (Sb124) [Radioactive emissions to air]	Activity	4,13E-04	Bq	(Literature)
Antimony (Sb124) [Radioactive emissions to fresh water]	Activity	1,38E-01	Bq	(Literature)
Antimony (Sb125) [Radioactive emissions to air]	Activity	5,07E-06	Bq	(No statement)
Antimony (Sb125) [Radioactive emissions to fresh water]	Activity	1,31E-01	Bq	(Literature)
Antimony [Fresh water]	Mass	3,96E-04	kg	(No statement)
Antimony [Heavy metals to agricultural soil]	Mass	7,87E-13	kg	(No statement)
Antimony [Heavy metals to air]	Mass	2,19E-06	kg	(Calculated)
Antimony [Heavy metals to fresh water]	Mass	2,15E-04	kg	(No statement)

Appendix 2.6
LCI Data - Web based newspaper 30 minutes reading, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Argon (Ar41) [Radioactive emissions to air]	Activity	2,29E+02	Bq	(Literature)
Aromatic hydrocarbons (unspecified) [Group NMVOC to air]	Mass	1,17E-06	kg	(Calculated)
Aromatic hydrocarbons (unspecified) [Hydrocarbons to fresh water]	Mass	1,43E-05	kg	Literature
Aromatic hydrocarbons (unspecified) [Hydrocarbons to sea water]	Mass	8,05E-06	kg	(No statement)
Arsenic [Fresh water]	Mass	7,60E-07	kg	(No statement)
Arsenic [Heavy metals to agricultural soil]	Mass	5,36E-09	kg	(No statement)
Arsenic [Heavy metals to air]	Mass	3,23E-06	kg	(Literature)
Arsenic [Heavy metals to fresh water]	Mass	1,15E-05	kg	(Literature)
Arsenic [Heavy metals to industrial soil]	Mass	6,86E-07	kg	Measured
Arsenic [Heavy metals to sea water]	Mass	1,94E-08	kg	(No statement)
Arsenic trioxide [Heavy metals to air]	Mass	2,05E-11	kg	Measured
Ash [Stockpile goods]	Mass	-4,35E-05	kg	Calculated
Atrazine [Pesticides to agricultural soil]	Mass	2,46E-11	kg	(No statement)
Barium (Ba140) [Radioactive emissions to air]	Activity	3,30E-04	Bq	(No statement)
Barium (Ba140) [Radioactive emissions to fresh water]	Activity	8,57E-04	Bq	(No statement)
Barium [Fresh water]	Mass	2,43E-04	kg	(No statement)
Barium [Inorganic emissions to agricultural soil]	Mass	3,66E-10	kg	(No statement)
Barium [Inorganic emissions to air]	Mass	1,13E-05	kg	(Literature)
Barium [Inorganic emissions to fresh water]	Mass	2,80E-05	kg	(Literature)
Barium [Inorganic emissions to industrial soil]	Mass	1,19E-05	kg	(No statement)
Barium [Inorganic emissions to sea water]	Mass	1,19E-05	kg	(No statement)
Barytes [ocean]	Mass	5,50E-04	kg	(No statement)
Battery Li-Ion (E-Paper) [Flows]	Mass	1,23E-10	kg	(No statement)
Bentazone [Pesticides to agricultural soil]	Mass	2,72E-10	kg	(No statement)
Benzaldehyde [Group NMVOC to air]	Mass	1,01E-10	kg	(No statement)
Benzene [Group NMVOC to air]	Mass	9,75E-05	kg	(Literature)
Benzene [Hydrocarbons to fresh water]	Mass	3,37E-06	kg	(Literature)
Benzene [Hydrocarbons to sea water]	Mass	1,12E-06	kg	(No statement)
Benzo{a}pyrene [Group PAH to air]	Mass	4,53E-07	kg	(Literature)
Beryllium [Fresh water]	Mass	1,81E-06	kg	(No statement)
Beryllium [Inorganic emissions to air]	Mass	7,41E-08	kg	(Literature)
Beryllium [Inorganic emissions to fresh water]	Mass	7,64E-09	kg	(Literature)
Biological oxygen demand (BOD) [Analytical measures to fresh water]	Mass	8,34E-03	kg	(Literature)
Biological oxygen demand (BOD) [Analytical measures to sea water]	Mass	2,06E-03	kg	(No statement)
Biological oxygen demand, BSB5 (Ecoinvent) [Fresh water]	Mass	1,07E-03	kg	(No statement)
Boiler ash (unspecified) [Waste for recovery]	Mass	-2,18E-04	kg	Calculated
Boron [Fresh water]	Mass	3,12E-04	kg	(No statement)
Boron [Inorganic emissions to air]	Mass	1,66E-07	kg	(No statement)
Boron [Inorganic emissions to fresh water]	Mass	1,28E-05	kg	(Literature)
Boron [Inorganic emissions to sea water]	Mass	1,12E-07	kg	(No statement)
Boron compounds (unspecified) [Inorganic emissions to air]	Mass	1,82E-04	kg	(Calculated)
Bromate [Inorganic emissions to fresh water]	Mass	5,04E-07	kg	(No statement)
Bromine [Fresh water]	Mass	1,53E-04	kg	(No statement)
Bromine [Inorganic emissions to air]	Mass	3,70E-05	kg	(Calculated)
Bromine [Inorganic emissions to fresh water]	Mass	7,43E-04	kg	(No statement)
Bromine [Inorganic emissions to sea water]	Mass	9,52E-06	kg	(No statement)
Butadiene [Group NMVOC to air]	Mass	1,65E-13	kg	(No statement)

Appendix 2.6
LCI Data - Web based newspaper 30 minutes reading, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Butane (n-butane) [Group NMVOC to air]	Mass	3,95E-06	kg	(Measured)
Butane [Group NMVOC to air]	Mass	1,08E-04	kg	(Literature)
Butene [Group NMVOC to air]	Mass	8,50E-07	kg	(No statement)
Butene [Hydrocarbons to fresh water]	Mass	1,32E-09	kg	(No statement)
Cadmium [Fresh water]	Mass	8,69E-07	kg	(No statement)
Cadmium [Heavy metals to agricultural soil]	Mass	1,09E-08	kg	(No statement)
Cadmium [Heavy metals to air]	Mass	7,27E-07	kg	(Literature)
Cadmium [Heavy metals to fresh water]	Mass	1,91E-06	kg	(Literature)
Cadmium [Heavy metals to industrial soil]	Mass	1,10E-07	kg	Measured
Cadmium [Heavy metals to sea water]	Mass	4,86E-09	kg	(No statement)
CaF2 (low radioactice) [Radioactive waste]	Mass	1,13E-06	kg	(Literature)
Calcium [Fresh water]	Mass	4,77E-02	kg	(No statement)
Calcium [Inorganic emissions to fresh water]	Mass	7,14E-03	kg	(Literature)
Calcium [Inorganic emissions to sea water]	Mass	4,42E-04	kg	(No statement)
Carbetamide [Pesticides to agricultural soil]	Mass	1,09E-10	kg	(No statement)
Carbon (C14) [Radioactive emissions to air]	Activity	6,20E+02	Bq	(Literature)
Carbon (C14) [Radioactive emissions to fresh water]	Activity	2,97E+00	Bq	(Estimated)
Carbon (unspecified) [Organic emissions to agricultural soil]	Mass	4,79E-05	kg	(No statement)
Carbon (unspecified) [Organic emissions to industrial soil]	Mass	7,15E-05	kg	(No statement)
Carbon dioxide (biotic) [Air]	Mass	7,08E-01	kg	(No statement)
Carbon dioxide [Inorganic emissions to air]	Mass	2,36E+01	kg	(Literature)
Carbon disulphide [Inorganic emissions to air]	Mass	1,43E-05	kg	(No statement)
Carbon monoxide (biotic) [Air]	Mass	2,01E-04	kg	(No statement)
Carbon monoxide [Inorganic emissions to air]	Mass	1,48E-02	kg	(Literature)
Carbon tetrachloride (tetrachloromethane) [Halogenated organic emissions to air]	Mass	4,05E-09	kg	(No statement)
Carbonate [Inorganic emissions to fresh water]	Mass	3,86E-05	kg	(Literature)
Cerium (Ce141) [Radioactive emissions to air]	Activity	7,99E-05	Bq	(No statement)
Cerium (Ce141) [Radioactive emissions to fresh water]	Activity	3,43E-04	Bq	(No statement)
Cerium (Ce144) [Radioactive emissions to fresh water]	Activity	1,04E-04	Bq	(No statement)
Cesium (Cs134) [Radioactive emissions to air]	Activity	1,60E-02	Bq	(Literature)
Cesium (Cs134) [Radioactive emissions to fresh water]	Activity	3,97E+00	Bq	(Literature)
Cesium (Cs136) [Radioactive emissions to fresh water]	Activity	6,08E-05	Bq	(No statement)
Cesium (Cs137) [Radioactive emissions to air]	Activity	3,58E-02	Bq	(Literature)
Cesium (Cs137) [Radioactive emissions to fresh water]	Activity	2,73E+01	Bq	(Literature)
Cesium (Cs137) [Radioactive emissions to sea water]	Activity	9,59E+01	Bq	(No statement)
Cesium [Heavy metals to fresh water]	Mass	2,71E-08	kg	(No statement)
Cesium [Heavy metals to sea water]	Mass	1,36E-08	kg	(No statement)
Chemical oxygen demand (COD) [Analytical measures to fresh water]	Mass	5,04E-02	kg	(Literature)
Chemical oxygen demand (COD) [Analytical measures to sea water]	Mass	2,07E-03	kg	Estimated
Chemical oxygen demand, CSB (Ecoinvent) [Fresh water]	Mass	3,25E-03	kg	(No statement)
Chlorate [Inorganic emissions to fresh water]	Mass	4,33E-06	kg	(No statement)
Chloride (unspecified) [Inorganic emissions to air]	Mass	1,41E-05	kg	(Measured)
Chloride [Fresh water]	Mass	9,43E-05	kg	(No statement)
Chloride [Inorganic emissions to fresh water]	Mass	1,34E-01	kg	(Literature)
Chloride [Inorganic emissions to sea water]	Mass	6,82E-03	kg	(No statement)
Chlorinated hydrocarbons (unspecified) [Halogenated organic emissions to fresh water]	Mass	2,44E-07	kg	(Estimated)
Chlorine (dissolved) [Inorganic emissions to fresh water]	Mass	4,93E-05	kg	(Literature)

Appendix 2.6
LCI Data - Web based newspaper 30 minutes reading, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Chlorine [Inorganic emissions to agricultural soil]	Mass	2,38E-06	kg	(No statement)
Chlorine [Inorganic emissions to air]	Mass	1,70E-06	kg	(Literature)
Chlorine [Inorganic emissions to industrial soil]	Mass	1,49E-04	kg	(No statement)
Chloromethane (methyl chloride) [Halogenated organic emissions to air]	Mass	1,09E-08	kg	Estimated
Chloromethane (methyl chloride) [Halogenated organic emissions to fresh water]	Mass	4,74E-07	kg	(Literature)
Chlorothalonil [Pesticides to agricultural soil]	Mass	1,30E-08	kg	(No statement)
Chlorous dissolvent [Halogenated organic emissions to fresh water]	Mass	1,46E-08	kg	(No statement)
Chlorous dissolvent [Halogenated organic emissions to sea water]	Mass	1,29E-15	kg	(No statement)
Chromium (Cr51) [Radioactive emissions to air]	Activity	5,12E-06	Bq	(No statement)
Chromium (Cr51) [Radioactive emissions to fresh water]	Activity	1,33E-01	Bq	(No statement)
Chromium (unspecified) [Heavy metals to agricultural soil]	Mass	1,59E-07	kg	(No statement)
Chromium (unspecified) [Heavy metals to air]	Mass	3,92E-06	kg	(Literature)
Chromium (unspecified) [Heavy metals to fresh water]	Mass	1,36E-07	kg	(Literature)
Chromium (unspecified) [Heavy metals to industrial soil]	Mass	1,22E-07	kg	(No statement)
Chromium +III [Heavy metals to fresh water]	Mass	8,63E-08	kg	(Literature)
Chromium +VI [Fresh water]	Mass	9,50E-06	kg	(No statement)
Chromium +VI [Heavy metals to air]	Mass	8,17E-08	kg	(No statement)
Chromium +VI [Heavy metals to fresh water]	Mass	6,83E-06	kg	(No statement)
Chromium +VI [Heavy metals to industrial soil]	Mass	6,97E-06	kg	(No statement)
Cobalt (Co57) [Radioactive emissions to fresh water]	Activity	1,93E-03	Bq	(No statement)
Cobalt (Co58) [Radioactive emissions to air]	Activity	1,07E-03	Bq	(Literature)
Cobalt (Co58) [Radioactive emissions to fresh water]	Activity	1,08E+00	Bq	(Literature)
Cobalt (Co60) [Radioactive emissions to air]	Activity	1,21E-02	Bq	(Literature)
Cobalt (Co60) [Radioactive emissions to fresh water]	Activity	1,33E+01	Bq	(Literature)
Cobalt [Fresh water]	Mass	2,42E-05	kg	(No statement)
Cobalt [Heavy metals to agricultural soil]	Mass	1,49E-08	kg	(No statement)
Cobalt [Heavy metals to air]	Mass	1,49E-06	kg	(Literature)
Cobalt [Heavy metals to fresh water]	Mass	5,80E-08	kg	(No statement)
Cobalt [Heavy metals to sea water]	Mass	2,89E-09	kg	(No statement)
Copper [Fresh water]	Mass	3,45E-04	kg	(No statement)
Copper [Heavy metals to agricultural soil]	Mass	1,79E-07	kg	(No statement)
Copper [Heavy metals to air]	Mass	1,31E-05	kg	(Literature)
Copper [Heavy metals to fresh water]	Mass	5,79E-06	kg	(Literature)
Copper [Heavy metals to industrial soil]	Mass	6,88E-06	kg	Measured
Copper [Heavy metals to sea water]	Mass	3,66E-08	kg	(No statement)
Cumene (isopropylbenzene) [Group NMVOC to air]	Mass	1,55E-07	kg	(No statement)
Cumene (isopropylbenzene) [Organic emissions to fresh water]	Mass	3,72E-07	kg	(No statement)
Curium (Cm alpha) [Radioactive emissions to fresh water]	Activity	7,61E-02	Bq	Calculated
Cyanide (unspecified) [Inorganic emissions to air]	Mass	1,73E-06	kg	(No statement)
Cyanide [Inorganic emissions to fresh water]	Mass	3,43E-06	kg	(Literature)
Cyanide [Inorganic emissions to sea water]	Mass	4,83E-08	kg	(No statement)
Cycloalkanes (unspec.) [Group NMVOC to air]	Mass	3,42E-09	kg	(No statement)
Cypermethrin [Pesticides to agricultural soil]	Mass	2,74E-12	kg	(No statement)
Detergent (unspecified) [Other emissions to fresh water]	Mass	4,31E-10	kg	(Literature)
Dichloroethane (ethylene dichloride) [Halogenated organic emissions to air]	Mass	3,81E-08	kg	(No statement)
Dichloroethane (ethylene dichloride) [Halogenated organic emissions to fresh water]	Mass	2,73E-08	kg	(No statement)

Appendix 2.6
LCI Data - Web based newspaper 30 minutes reading, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Dichloromethane (methylene chloride) [Halogenated organic emissions to air]	Mass	1,71E-05	kg	Calculated
Dichloromethane (methylene chloride) [Halogenated organic emissions to fresh water]	Mass	6,03E-07	kg	(No statement)
Dichloropropane [Halogenated organic emissions to fresh water]	Mass	0,00E+00	kg	Estimated
Dichromate [river]	Mass	1,82E-07	kg	(No statement)
Diethyl amine (ethylene ethane amine) [Group NMVOC to air]	Mass	1,91E-10	kg	Measured
Different pollutants [Other emissions to agricultural soil]	Mass	3,53E-04	kg	(No statement)
Different pollutants [Other emissions to industrial soil]	Mass	1,74E-04	kg	(No statement)
Dinoseb [Pesticides to agricultural soil]	Mass	3,54E-09	kg	(No statement)
Dissolved organic carbon, DOC (Ecoinvent) [Fresh water]	Mass	1,39E-03	kg	(No statement)
Dust (> PM10) [Particles to air]	Mass	1,10E-02	kg	(No statement)
Dust (PM2,5 - PM10) [Particles to air]	Mass	9,10E-04	kg	(No statement)
Dust (PM2.5) [Particles to air]	Mass	4,02E-03	kg	(No statement)
Dust (unspecified) [Particles to air]	Mass	6,59E-03	kg	(Literature)
Ethane [Group NMVOC to air]	Mass	8,10E-04	kg	(Literature)
Ethanol [Group NMVOC to air]	Mass	1,52E-05	kg	(Literature)
Ethene (ethylene) [Group NMVOC to air]	Mass	4,14E-06	kg	(Literature)
Ethene (ethylene) [Hydrocarbons to fresh water]	Mass	1,37E-07	kg	(No statement)
Ethine (acetylene) [Group NMVOC to air]	Mass	1,69E-07	kg	(No statement)
Ethyl benzene [Group NMVOC to air]	Mass	3,97E-05	kg	(Calculated)
Ethyl benzene [Hydrocarbons to fresh water]	Mass	9,08E-07	kg	(Literature)
Ethyl benzene [Hydrocarbons to sea water]	Mass	3,26E-07	kg	(No statement)
Ethylene oxide [Group NMVOC to air]	Mass	1,82E-09	kg	(No statement)
Ethylene oxide [Hydrocarbons to fresh water]	Mass	5,98E-11	kg	(No statement)
Ethylenediamine [Group NMVOC to air]	Mass	2,93E-12	kg	(No statement)
Ethylenediamine [Organic emissions to fresh water]	Mass	7,11E-12	kg	(No statement)
Exhaust [Other emissions to air]	Mass	2,89E+01	kg	(Calculated)
Fatty acids (calculated as total carbon) [Hydrocarbons to fresh water]	Mass	9,99E-05	kg	(No statement)
Fatty acids (calculated as total carbon) [Hydrocarbons to sea water]	Mass	8,09E-05	kg	(No statement)
Fenpiclonil [Pesticides to agricultural soil]	Mass	5,31E-10	kg	(No statement)
Fluoride (unspecified) [Inorganic emissions to air]	Mass	1,28E-06	kg	(Literature)
Fluoride [Fresh water]	Mass	3,88E-05	kg	(No statement)
Fluoride [Inorganic emissions to fresh water]	Mass	4,14E-04	kg	(Literature)
Fluoride [Inorganic emissions to industrial soil]	Mass	5,91E-06	kg	(No statement)
Fluoride [Inorganic emissions to sea water]	Mass	1,59E-06	kg	(No statement)
Fluorides [Inorganic emissions to air]	Mass	1,03E-09	kg	(Estimated)
Fluorine [Inorganic emissions to air]	Mass	4,12E-07	kg	(Literature)
Fluorine [Inorganic emissions to fresh water]	Mass	7,40E-06	kg	(Measured)
Fly ash (unspecified) [Waste for recovery]	Mass	-8,48E-04	kg	Calculated
Formaldehyde (methanal) [Group NMVOC to air]	Mass	4,94E-05	kg	(Literature)
Formaldehyde (methanal) [Hydrocarbons to fresh water]	Mass	5,41E-08	kg	Literature
Glutaraldehyde [Hydrocarbons to sea water]	Mass	6,79E-08	kg	(No statement)
Glyphosate [Pesticides to agricultural soil]	Mass	1,56E-09	kg	(No statement)
Glyphosate [Pesticides to industrial soil]	Mass	4,46E-08	kg	(No statement)
Graphites [Particles to air]	Mass	0,00E+00	kg	Estimated
Gypsum (FDI) [Waste for recovery]	Mass	2,81E-03	kg	(Measured)
Gypsum [Waste for recovery]	Mass	1,73E-04	kg	(Estimated)
Halogenated hydrocarbons (unspecified) [Halogenated organic emissions to air]	Mass	-1,07E-12	kg	Literature

Appendix 2.6
LCI Data - Web based newspaper 30 minutes reading, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Halon (1211) [Halogenated organic emissions to air]	Mass	5,49E-08	kg	(No statement)
Halon (1301) [Halogenated organic emissions to air]	Mass	4,25E-08	kg	(Literature)
Hazardous waste (unspec.) [Hazardous waste]	Mass	1,23E-01	kg	(Literature)
Heat from natural gas [Flows]	Energy	1,56E-11	MJ	(No statement)
Heat from oil [Flows]	Energy	1,40E-10	MJ	(No statement)
Heat from waste [Flows]	Energy	1,67E-10	MJ	(No statement)
Heavy metals to water (unspecified) [Heavy metals to fresh water]	Mass	2,96E-07	kg	(Measured)
Helium [Inorganic emissions to air]	Mass	1,30E-05	kg	(Literature)
Heptane (isomers) [Group NMVOC to air]	Mass	8,49E-06	kg	(No statement)
Hexachlorobenzene (Perchlorobenzene) [Halogenated organic emissions to air]	Mass	4,26E-10	kg	(No statement)
Hexaflourosilicates [Air]	Mass	5,40E-08	kg	(No statement)
Hexaflourosilicates [Sweet-]	Mass	9,71E-08	kg	(No statement)
Hexane (isomers) [Group NMVOC to air]	Mass	6,88E-05	kg	(Literature)
Highly radioactive waste [Radioactive waste]	Mass	1,65E-05	kg	(Calculated)
Highly-active fission product solution [Radioactive waste]	Mass	1,22E-07	kg	(Estimated)
Housing (E-Paper) [Flows]	Mass	7,39E-06	kg	(No statement)
Hydrocarbons (unspecified) [Hydrocarbons to fresh water]	Mass	1,05E-05	kg	(Literature)
Hydrocarbons (unspecified) [Hydrocarbons to sea water]	Mass	1,03E-05	kg	(No statement)
Hydrocarbons, aromatic [Group NMVOC to air]	Mass	7,94E-06	kg	(No statement)
Hydrocarbons, chloro-/fluoro- [Halogenated organic emissions to air]	Mass	2,68E-08	kg	(No statement)
Hydrocarbons, halogenated [Halogenated organic emissions to air]	Mass	5,97E-09	kg	(No statement)
Hydrogen (H3) [Radioactive emissions to air]	Activity	3,26E+03	Bq	(Literature)
Hydrogen (H3) [Radioactive emissions to fresh water]	Activity	1,08E+05	Bq	(Literature)
Hydrogen (H3) [Radioactive emissions to sea water]	Activity	1,99E+05	Bq	(No statement)
Hydrogen [Inorganic emissions to air]	Mass	9,66E-05	kg	(Measured)
Hydrogen arsenic (arsine) [Heavy metals to air]	Mass	1,70E-09	kg	Measured
Hydrogen chloride [Inorganic emissions to air]	Mass	1,64E-03	kg	(Literature)
Hydrogen chloride [Inorganic emissions to fresh water]	Mass	3,78E-12	kg	Estimated
Hydrogen cyanide (prussic acid) [Inorganic emissions to air]	Mass	1,15E-07	kg	(Calculated)
Hydrogen fluoride (hydrofluoric acid) [Inorganic emissions to fresh water]	Mass	5,51E-09	kg	Measured
Hydrogen fluoride [Inorganic emissions to air]	Mass	4,23E-04	kg	(Literature)
Hydrogen peroxide [Sweet-]	Mass	2,04E-09	kg	(No statement)
Hydrogen sulphide [Fresh water]	Mass	6,07E-06	kg	(No statement)
Hydrogen sulphide [Inorganic emissions to air]	Mass	2,17E-04	kg	(Literature)
Hydrogen sulphide [Inorganic emissions to fresh water]	Mass	1,59E-07	kg	(No statement)
Hydroxide [Inorganic emissions to fresh water]	Mass	1,78E-05	kg	Estimated
Hypochlorite [Inorganic emissions to fresh water]	Mass	6,69E-06	kg	(No statement)
Hypochlorite [Inorganic emissions to sea water]	Mass	7,53E-06	kg	(No statement)
Iliad Module (E-Paper) [Flows]	Mass	1,45E-11	kg	(No statement)
Incineration good [Waste for disposal]	Mass	2,79E-04	kg	Literature
Industrial waste for municipal disposal [Consumer waste]	Mass	2,88E-02	kg	(Literature)
inert chemical waste [Consumer waste]	Mass	4,78E-04	kg	(Literature)
Inert gases [Radioactive emissions to air]	Activity	4,95E+06	Bq	(No statement)
Inorganic salts and acids (unspecified) [Inorganic emissions to fresh water]	Mass	-1,14E-07	kg	Literature
Iodide [Fresh water]	Mass	5,87E-12	kg	(No statement)
Iodide [Inorganic emissions to fresh water]	Mass	3,32E-06	kg	(No statement)

Appendix 2.6
LCI Data - Web based newspaper 30 minutes reading, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Iodide [Inorganic emissions to sea water]	Mass	1,36E-06	kg	(No statement)
Iodine (I129) [Radioactive emissions to air]	Activity	6,40E-01	Bq	Calculated
Iodine (I129) [Radioactive emissions to fresh water]	Activity	8,51E+00	Bq	(Estimated)
Iodine (I131) [Radioactive emissions to air]	Activity	2,62E+01	Bq	(Literature)
Iodine (I131) [Radioactive emissions to fresh water]	Activity	2,56E-02	Bq	(Literature)
Iodine (I133) [Radioactive emissions to air]	Activity	3,94E-04	Bq	(No statement)
Iodine (I133) [Radioactive emissions to fresh water]	Activity	5,38E-04	Bq	(No statement)
Iodine [Inorganic emissions to air]	Mass	6,02E-06	kg	(No statement)
Iron (Fe59) [Radioactive emissions to fresh water]	Activity	1,48E-04	Bq	(No statement)
Iron [Fresh water]	Mass	8,36E-03	kg	(No statement)
Iron [Heavy metals to agricultural soil]	Mass	4,30E-05	kg	(No statement)
Iron [Heavy metals to air]	Mass	5,62E-06	kg	(Literature)
Iron [Heavy metals to fresh water]	Mass	9,30E-03	kg	(Literature)
Iron [Heavy metals to industrial soil]	Mass	1,33E-04	kg	(No statement)
Iron [Heavy metals to sea water]	Mass	7,39E-07	kg	(No statement)
Isocyanide acid [Air]	Mass	2,17E-06	kg	(No statement)
Jacket and body material [Radioactive waste]	Mass	1,60E-08	kg	(Calculated)
Krypton (Kr85) [Radioactive emissions to air]	Activity	2,20E+06	Bq	(Literature)
Krypton (Kr85m) [Radioactive emissions to air]	Activity	1,17E+01	Bq	(Literature)
Krypton (Kr87) [Radioactive emissions to air]	Activity	3,57E+00	Bq	(No statement)
Krypton (Kr88) [Radioactive emissions to air]	Activity	3,36E+00	Bq	(No statement)
Krypton (Kr89) [Radioactive emissions to air]	Activity	7,57E-01	Bq	(No statement)
Lanthanides [Heavy metals to air]	Mass	2,75E-09	kg	(Estimated)
Lanthanum (La140) [Radioactive emissions to fresh water]	Activity	9,13E-04	Bq	(No statement)
Lanthanum (La141) [Radioactive emissions to air]	Activity	2,82E-05	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to air]	Activity	2,30E+00	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to fresh water]	Activity	1,13E+00	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to sea water]	Activity	5,33E-02	Bq	(No statement)
Lead [Fresh water]	Mass	1,01E-05	kg	(No statement)
Lead [Heavy metals to agricultural soil]	Mass	6,38E-08	kg	(No statement)
Lead [Heavy metals to air]	Mass	1,34E-05	kg	(Literature)
Lead [Heavy metals to fresh water]	Mass	1,78E-05	kg	(Literature)
Lead [Heavy metals to industrial soil]	Mass	4,85E-06	kg	Measured
Lead [Heavy metals to sea water]	Mass	1,41E-07	kg	(No statement)
Linuron [Pesticides to agricultural soil]	Mass	4,14E-09	kg	(No statement)
Liquid hazardous waste [Hazardous waste]	Mass	2,71E-06	kg	(Estimated)
Liquid waste [Consumer waste]	Mass	2,16E+04	kg	(Calculated)
Magnesium [Fresh water]	Mass	7,14E-03	kg	(No statement)
Magnesium [Inorganic emissions to fresh water]	Mass	4,72E-04	kg	(Literature)
Magnesium [Inorganic emissions to sea water]	Mass	7,49E-05	kg	(No statement)
Magnesium chloride [Inorganic emissions to fresh water]	Mass	1,50E-09	kg	(No statement)
Mancozeb [Pesticides to agricultural soil]	Mass	1,69E-08	kg	(No statement)
Manganese (Mn54) [Radioactive emissions to air]	Activity	2,62E-06	Bq	(No statement)
Manganese (Mn54) [Radioactive emissions to fresh water]	Activity	2,01E+00	Bq	(Literature)
Manganese [Fresh water]	Mass	1,29E-04	kg	(No statement)
Manganese [Heavy metals to agricultural soil]	Mass	1,49E-05	kg	(No statement)
Manganese [Heavy metals to air]	Mass	3,70E-06	kg	(Calculated)
Manganese [Heavy metals to fresh water]	Mass	2,38E-05	kg	(Literature)
Manganese [Heavy metals to industrial soil]	Mass	9,54E-07	kg	(No statement)
Manganese [Heavy metals to sea water]	Mass	6,00E-07	kg	(No statement)
Medium and low radioactive liquid waste [Radioactive	Mass	1,70E-07	kg	(Estimated)

Appendix 2.6
LCI Data - Web based newspaper 30 minutes reading, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
waste]				
Medium and low radioactive wastes [Radioactive waste]	Mass	1,96E-05	kg	(Literature)
Mercaptan (unspecified) [Group NMVOC to air]	Mass	4,31E-10	kg	(Literature)
Mercury [Fresh water]	Mass	4,41E-08	kg	(No statement)
Mercury [Heavy metals to agricultural soil]	Mass	3,52E-10	kg	(No statement)
Mercury [Heavy metals to air]	Mass	6,64E-07	kg	(Literature)
Mercury [Heavy metals to fresh water]	Mass	6,99E-08	kg	(Literature)
Mercury [Heavy metals to industrial soil]	Mass	2,74E-08	kg	Measured
Mercury [Heavy metals to sea water]	Mass	9,81E-10	kg	(No statement)
Metal ions (unspecific) [Fresh water]	Mass	5,24E-04	kg	(No statement)
Metal ions (unspecific) [Inorganic emissions to fresh water]	Mass	2,77E-05	kg	(Calculated)
Metaldehyde [Organic emissions to agricultural soil]	Mass	2,38E-11	kg	(No statement)
Metals (unspecified) [Inorganic emissions to fresh water]	Mass	1,35E-15	kg	Literature
Metals (unspecified) [Particles to air]	Mass	-3,03E-08	kg	(Estimated)
Metals (unspecified) [Particles to fresh water]	Mass	1,10E-06	kg	(Literature)
Methacrylate [Group NMVOC to air]	Mass	1,50E-07	kg	Calculated
Methane (biotic) [Air]	Mass	8,06E-05	kg	(No statement)
Methane [Organic emissions to air (group VOC)]	Mass	4,60E-02	kg	(Literature)
Methanol [Group NMVOC to air]	Mass	1,61E-05	kg	(Literature)
Methanol [Hydrocarbons to fresh water]	Mass	3,78E-05	kg	(Measured)
Methanol [Hydrocarbons to sea water]	Mass	9,07E-07	kg	(No statement)
Methanol [Organic intermediate products]	Mass	8,06E-10	kg	Literature
Methyl methacrylate (MMA) [Group NMVOC to air]	Mass	4,13E-06	kg	Calculated
Methyl tert-butylether [Group NMVOC to air]	Mass	2,68E-09	kg	(No statement)
Methyl tert-butylether [Hydrocarbons to fresh water]	Mass	4,15E-11	kg	(No statement)
Methyl tert-butylether [Hydrocarbons to sea water]	Mass	8,84E-08	kg	(No statement)
Metolachlor [Pesticides to agricultural soil]	Mass	2,99E-08	kg	(No statement)
Metribuzin [Pesticides to agricultural soil]	Mass	5,96E-10	kg	(No statement)
Mineral waste [Consumer waste]	Mass	7,23E-07	kg	(Estimated)
Molybdenum (Mo99) [Radioactive emissions to fresh water]	Activity	3,15E-04	Bq	(No statement)
Molybdenum [Fresh water]	Mass	2,27E-07	kg	(No statement)
Molybdenum [Heavy metals to agricultural soil]	Mass	3,67E-09	kg	(No statement)
Molybdenum [Heavy metals to air]	Mass	3,01E-07	kg	(Literature)
Molybdenum [Heavy metals to fresh water]	Mass	1,39E-05	kg	(Estimated)
Molybdenum [Heavy metals to sea water]	Mass	2,79E-09	kg	(No statement)
Monoethanolamine [Group NMVOC to air]	Mass	4,07E-08	kg	(No statement)
Municipal waste [Consumer waste]	Mass	6,53E-04	kg	(Calculated)
Napropamide [Pesticides to agricultural soil]	Mass	4,21E-11	kg	(No statement)
Neutral salts [Inorganic emissions to fresh water]	Mass	-5,49E-07	kg	Calculated
Nickel [Fresh water]	Mass	1,21E-04	kg	(No statement)
Nickel [Heavy metals to agricultural soil]	Mass	4,71E-08	kg	(No statement)
Nickel [Heavy metals to air]	Mass	1,51E-05	kg	(Literature)
Nickel [Heavy metals to fresh water]	Mass	2,82E-06	kg	(Literature)
Nickel [Heavy metals to industrial soil]	Mass	2,91E-09	kg	(No statement)
Nickel [Heavy metals to sea water]	Mass	1,05E-08	kg	(No statement)
Niobium (Nb95) [Radioactive emissions to air]	Activity	1,23E-02	Bq	(No statement)
Nitrate [Fresh water]	Mass	6,18E-05	kg	(No statement)
Nitrate [Inorganic emissions to air]	Mass	2,36E-08	kg	(No statement)
Nitrate [Inorganic emissions to fresh water]	Mass	4,33E-04	kg	(Literature)
Nitrate [Inorganic emissions to sea water]	Mass	6,48E-05	kg	(No statement)
Nitrite [Fresh water]	Mass	7,72E-08	kg	(No statement)

Appendix 2.6
LCI Data - Web based newspaper 30 minutes reading, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Nitrite [Inorganic emissions to fresh water]	Mass	3,28E-06	kg	(No statement)
Nitrite [Inorganic emissions to sea water]	Mass	1,30E-06	kg	(No statement)
Nitrogen [Inorganic emissions to fresh water]	Mass	1,68E-04	kg	(Estimated)
Nitrogen [Inorganic emissions to sea water]	Mass	2,24E-07	kg	(No statement)
Nitrogen organic bounded [Fresh water]	Mass	2,31E-06	kg	(No statement)
Nitrogen organic bounded [Inorganic emissions to fresh water]	Mass	6,11E-06	kg	Literature
Nitrogen organic bounded [Inorganic emissions to sea water]	Mass	4,79E-06	kg	(No statement)
Nitrogen oxides [Inorganic emissions to air]	Mass	5,41E-02	kg	(Literature)
Nitrous oxide (laughing gas) [Inorganic emissions to air]	Mass	9,05E-04	kg	(Literature)
NMVOC (unspecified) [Group NMVOC to air]	Mass	5,83E-03	kg	(Literature)
non used primary energy from water power [Other emissions to fresh water]	Energy ren.	1,07E+00	MJ	(Calculated)
non used primary energy from wind power [Other emissions to air]	Energy ren.	6,23E-02	MJ	(Measured)
Oil (unspecified) [Hydrocarbons to fresh water]	Mass	2,38E-03	kg	(Literature)
Oil (unspecified) [Hydrocarbons to sea water]	Mass	6,43E-04	kg	(No statement)
Oil (unspecified) [Organic emissions to agricultural soil]	Mass	2,90E-03	kg	(No statement)
Oil (unspecified) [Organic emissions to industrial soil]	Mass	1,40E-05	kg	Measured
Orbencarb [Pesticides to agricultural soil]	Mass	3,21E-09	kg	(No statement)
Organic chlorine compounds (unspecified) [Organic emissions to fresh water]	Mass	4,31E-10	kg	(Literature)
Organic chlorine compounds [Organic emissions to air (group VOC)]	Mass	4,31E-10	kg	(Literature)
Organic compounds (dissolved) [Organic emissions to fresh water]	Mass	1,22E-07	kg	Calculated
Organic compounds (unspecified) [Organic emissions to fresh water]	Mass	1,08E-14	kg	Literature
Organic waste [Consumer waste]	Mass	3,28E-09	kg	Literature
Overburden [Stockpile goods]	Mass	3,54E+00	kg	(Calculated)
Ozone [Inorganic emissions to air]	Mass	1,75E-04	kg	(No statement)
Pentachlorobenzene [Halogenated organic emissions to air]	Mass	3,29E-10	kg	(No statement)
Pentachlorophenol (PCP) [Halogenated organic emissions to air]	Mass	1,81E-07	kg	(No statement)
Pentane (n-pentane) [Group NMVOC to air]	Mass	1,58E-04	kg	(Literature)
Personal computer [Flows]	Number of pieces	1,31E-16	pcs.	(No statement)
Phenol (hydroxy benzene) [Group NMVOC to air]	Mass	9,05E-08	kg	Literature
Phenol (hydroxy benzene) [Hydrocarbons to fresh water]	Mass	4,04E-06	kg	(Estimated)
Phenol (hydroxy benzene) [Hydrocarbons to sea water]	Mass	1,74E-06	kg	(No statement)
Phosphate [Fresh water]	Mass	2,32E-04	kg	(No statement)
Phosphate [Inorganic emissions to fresh water]	Mass	2,03E-05	kg	(Literature)
Phosphate [Inorganic emissions to sea water]	Mass	8,99E-07	kg	(No statement)
Phosphorus [Inorganic emissions to agricultural soil]	Mass	7,28E-06	kg	(No statement)
Phosphorus [Inorganic emissions to air]	Mass	1,78E-06	kg	(No statement)
Phosphorus [Inorganic emissions to fresh water]	Mass	6,49E-07	kg	(No statement)
Phosphorus [Inorganic emissions to industrial soil]	Mass	1,19E-06	kg	(No statement)
Phosphorus [Inorganic emissions to sea water]	Mass	1,33E-07	kg	(No statement)
Pirimicarb [Pesticides to agricultural soil]	Mass	2,58E-11	kg	(No statement)
Plastic (unspecified) [Waste for recovery]	Mass	1,86E-04	kg	(Literature)
Platinum [Heavy metals to air]	Mass	1,89E-13	kg	(No statement)
Plutonium (Pu alpha) [Radioactive emissions to air]	Activity	7,78E-04	Bq	(Estimated)
Plutonium (Pu alpha) [Radioactive emissions to fresh	Activity	2,47E-01	Bq	(Estimated)

Appendix 2.6
LCI Data - Web based newspaper 30 minutes reading, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
water]				
Plutonium (Pu238) [Radioactive emissions to air]	Activity	7,03E-08	Bq	(No statement)
Plutonium as residual product [Radioactive waste]	Mass	3,38E-08	kg	(Calculated)
Polonium (Po210) [Radioactive emissions to air]	Activity	4,02E+00	Bq	(No statement)
Polonium (Po210) [Radioactive emissions to fresh water]	Activity	1,13E+00	Bq	(No statement)
Polonium (Po210) [Radioactive emissions to sea water]	Activity	8,13E-02	Bq	(No statement)
Polychlorinated biphenyls (PCB unspecified) [Halogenated organic emissions to air]	Mass	5,39E-10	kg	(No statement)
Polychlorinated dibenzo-p-dioxins (2,3,7,8 - TCDD) [Halogenated organic emissions to air]	Mass	1,14E-11	kg	(Literature)
Polychlorinated dibenzo-p-dioxins (2,3,7,8 - TCDD) [Halogenated organic emissions to fresh water]	Mass	1,81E-20	kg	Estimated
Polycyclic aromatic hydrocarbons (PAH) [Group PAH to air]	Mass	1,19E-06	kg	(Literature)
Polycyclic aromatic hydrocarbons (PAH, unspec.) [Hydrocarbons to fresh water]	Mass	1,78E-06	kg	(Literature)
Polycyclic aromatic hydrocarbons (PAH, unspec.) [Hydrocarbons to sea water]	Mass	1,08E-07	kg	(No statement)
Populated PWB Iliad Module (E-Paper) [Flows]	Mass	7,16E-06	kg	(No statement)
Potassium (K40) [Radioactive emissions to air]	Activity	4,88E-01	Bq	(No statement)
Potassium (K40) [Radioactive emissions to fresh water]	Activity	1,42E+00	Bq	(No statement)
Potassium (K40) [Radioactive emissions to sea water]	Activity	6,44E-03	Bq	(No statement)
Potassium [Fresh water]	Mass	1,28E-03	kg	(No statement)
Potassium [Inorganic emissions to fresh water]	Mass	1,12E-03	kg	(Literature)
Potassium [Inorganic emissions to sea water]	Mass	5,77E-05	kg	(No statement)
Propane [Group NMVOC to air]	Mass	3,70E-04	kg	(Literature)
Propanol (iso-propanol; isopropanol) [Group NMVOC to air]	Mass	8,51E-05	kg	Estimated
Propene (propylene) [Group NMVOC to air]	Mass	7,07E-06	kg	(Calculated)
Propene [Hydrocarbons to fresh water]	Mass	1,50E-07	kg	(No statement)
Propionaldehyde [Group NMVOC to air]	Mass	1,01E-10	kg	(No statement)
Propionic acid (propane acid) [Group NMVOC to air]	Mass	9,36E-07	kg	(Literature)
Propylene oxide [Group NMVOC to air]	Mass	5,03E-09	kg	(No statement)
Propylene oxide [Hydrocarbons to fresh water]	Mass	1,21E-08	kg	(No statement)
Protactinium (Pa234m) [Radioactive emissions to air]	Activity	7,01E-02	Bq	(No statement)
Protactinium (Pa234m) [Radioactive emissions to fresh water]	Activity	1,30E+00	Bq	(No statement)
R 11 (trichlorofluoromethane) [Halogenated organic emissions to air]	Mass	3,58E-07	kg	(Estimated)
R 113 (trichlorofluoroethane) [Halogenated organic emissions to air]	Mass	0,00E+00	kg	(No statement)
R 114 (dichlorotetrafluoroethane) [Halogenated organic emissions to air]	Mass	4,87E-07	kg	(Estimated)
R 116 (hexafluoroethane) [Halogenated organic emissions to air]	Mass	1,40E-07	kg	Calculated
R 12 (dichlorodifluoromethane) [Halogenated organic emissions to air]	Mass	7,72E-08	kg	(Estimated)
R 124 (chlorotetrafluoroethane) [Halogenated organic emissions to air]	Mass	0,00E+00	kg	(No statement)
R 13 (chlorotrifluoromethane) [Halogenated organic emissions to air]	Mass	4,83E-08	kg	(Estimated)
R 134a (tetrafluoroethane) [Halogenated organic emissions to air]	Mass	9,39E-08	kg	(No statement)
R 21 (Dichlorofluoromethane) [Halogenated organic emissions to air]	Mass	7,64E-15	kg	(No statement)
R 22 (chlorodifluoromethane) [Halogenated organic	Mass	4,48E-07	kg	(Estimated)

Appendix 2.6
LCI Data - Web based newspaper 30 minutes reading, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
emissions to air]				
R 23 (trifluoromethane) [Halogenated organic emissions to air]	Mass	2,43E-12	kg	(No statement)
Radioactive emissions (general) [Radioactive emissions to air]	Activity	1,26E-01	Bq	Literature
Radioactive isotopes (unspecific) [Radioactive emissions to air]	Activity	1,05E+00	Bq	(No statement)
Radioactive isotopes (unspecific) [Radioactive emissions to fresh water]	Activity	5,02E+02	Bq	(No statement)
Radioactive tailings [Radioactive waste]	Mass	1,98E-03	kg	(Calculated)
Radium (Ra224) [Radioactive emissions to fresh water]	Activity	1,36E+00	Bq	(No statement)
Radium (Ra224) [Radioactive emissions to sea water]	Activity	6,80E-01	Bq	(No statement)
Radium (Ra226) [Radioactive emissions to air]	Activity	2,85E+00	Bq	(No statement)
Radium (Ra226) [Radioactive emissions to fresh water]	Activity	1,77E+03	Bq	(Literature)
Radium (Ra226) [Radioactive emissions to sea water]	Activity	1,15E+00	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to air]	Activity	1,96E-01	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to fresh water]	Activity	2,71E+00	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to sea water]	Activity	1,36E+00	Bq	(No statement)
Radon (Rn220) [Radioactive emissions to air]	Activity	3,16E-04	Bq	(No statement)
Radon (Rn222) [Air]	Activity	9,09E+06	Bq	(No statement)
Radon (Rn222) [Radioactive emissions to air]	Activity	2,48E+05	Bq	(Literature)
Red mud (wet) (3% NaOH) [Hazardous waste for disposal]	Mass	2,27E-03	kg	Measured
Residues for incineration [Waste for disposal]	Mass	2,92E-06	kg	(No statement)
Rolling tinder [Waste for recovery]	Mass	1,50E-03	kg	Calculated
Rubidium [Inorganic emissions to fresh water]	Mass	4,58E-07	kg	(No statement)
Ruthenium (Ru103) [Radioactive emissions to air]	Activity	6,84E-08	Bq	(No statement)
Ruthenium (Ru103) [Radioactive emissions to fresh water]	Activity	6,64E-05	Bq	(No statement)
Ruthenium (Ru106) [Radioactive emissions to fresh water]	Activity	5,74E-02	Bq	Calculated
Scandium [Fresh water]	Mass	2,43E-06	kg	(No statement)
Scandium [Inorganic emissions to air]	Mass	1,78E-09	kg	(Estimated)
Scandium [Inorganic emissions to fresh water]	Mass	5,84E-07	kg	(No statement)
Selenium [Fresh water]	Mass	1,76E-06	kg	(No statement)
Selenium [Heavy metals to air]	Mass	3,09E-06	kg	(Literature)
Selenium [Heavy metals to fresh water]	Mass	1,77E-06	kg	(Literature)
Selenium [Heavy metals to sea water]	Mass	4,18E-09	kg	(No statement)
Sewage sludge (waste water processing) [Hazardous waste]	Mass	6,50E-04	kg	Calculated
Silicium tetrafluoride [Inorganic emissions to air]	Mass	1,41E-10	kg	(No statement)
Silicon dioxide (silica) [Particles to air]	Mass	0,00E+00	kg	Estimated
Silicon dioxide (silica) [Particles to fresh water]	Mass	0,00E+00	kg	Estimated
Silver (Ag110m) [Radioactive emissions to air]	Activity	6,78E-07	Bq	(No statement)
Silver (Ag110m) [Radioactive emissions to fresh water]	Activity	7,31E-01	Bq	(Literature)
Silver [Fresh water]	Mass	1,51E-09	kg	(No statement)
Silver [Heavy metals to agricultural soil]	Mass	3,32E-11	kg	(No statement)
Silver [Heavy metals to air]	Mass	7,53E-12	kg	(No statement)
Silver [Heavy metals to fresh water]	Mass	3,51E-08	kg	(Literature)
Silver [Heavy metals to sea water]	Mass	8,16E-09	kg	(No statement)
Slag (Iron plate production) [Waste for recovery]	Mass	1,52E-02	kg	(Measured)
Slag (Mo-containing) [Waste for recovery]	Mass	8,42E-08	kg	Estimated
Slag [Hazardous waste]	Mass	1,53E-03	kg	(Literature)
Slag [Waste for recovery]	Mass	2,74E-03	kg	(Literature)

Appendix 2.6
LCI Data - Web based newspaper 30 minutes reading, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Sludge [Hazardous waste]	Mass	1,01E-02	kg	(Calculated)
Sludge from water works (6% dry matter-content) [Waste for disposal]	Mass	4,26E-08	kg	(No statement)
Sodium (Na24) [Radioactive emissions to fresh water]	Activity	2,38E-03	Bq	(No statement)
Sodium [Fresh water]	Mass	1,06E-03	kg	(No statement)
Sodium [Inorganic emissions to fresh water]	Mass	4,86E-02	kg	(Literature)
Sodium [Inorganic emissions to sea water]	Mass	4,16E-03	kg	(No statement)
Sodium chlorate [high population density]	Mass	7,82E-09	kg	(No statement)
Sodium chloride (rock salt) [Inorganic intermediate products]	Mass	5,49E-05	kg	Calculated
Sodium dichromate [high population density]	Mass	4,90E-08	kg	(No statement)
Sodium formate [high population density]	Mass	8,62E-11	kg	(No statement)
Sodium formate [Hydrocarbons to fresh water]	Mass	2,07E-10	kg	(No statement)
Sodium hypochlorite [Inorganic emissions to fresh water]	Mass	1,53E-07	kg	(Estimated)
Solder paste waste [Hazardous waste for recovery]	Mass	6,94E-05	kg	Estimated
Solids (dissolved) [Analytical measures to fresh water]	Mass	1,81E-02	kg	(Literature)
Solids (suspended) [Fresh water]	Mass	9,03E-02	kg	(No statement)
Solids (suspended) [Particles to fresh water]	Mass	5,24E-03	kg	(Estimated)
Solids (suspended) [Particles to sea water]	Mass	1,95E-03	kg	(No statement)
Spoil [Stockpile goods]	Mass	5,00E-10	kg	Calculated
Steam [Inorganic emissions to air]	Mass	6,49E+00	kg	(Estimated)
Steel works slag [Waste for recovery]	Mass	7,85E-03	kg	Calculated
Strontium (Sr89) [Radioactive emissions to fresh water]	Activity	1,42E-02	Bq	(No statement)
Strontium (Sr90) [Radioactive emissions to fresh water]	Activity	7,15E+02	Bq	(Literature)
Strontium (Sr90) [Radioactive emissions to sea water]	Activity	1,07E+01	Bq	(No statement)
Strontium [Fresh water]	Mass	1,96E-04	kg	(No statement)
Strontium [Heavy metals to agricultural soil]	Mass	1,29E-09	kg	(No statement)
Strontium [Heavy metals to fresh water]	Mass	1,86E-04	kg	(Literature)
Strontium [Heavy metals to industrial soil]	Mass	2,38E-07	kg	(No statement)
Strontium [Heavy metals to sea water]	Mass	8,18E-05	kg	(No statement)
Strontium [Inorganic emissions to air]	Mass	1,88E-06	kg	(Estimated)
Styrene [Group NMVOC to air]	Mass	2,30E-09	kg	(No statement)
Sulphate [Fresh water]	Mass	4,14E-02	kg	(No statement)
Sulphate [Inorganic emissions to fresh water]	Mass	5,31E-02	kg	(Literature)
Sulphate [Inorganic emissions to sea water]	Mass	1,36E-04	kg	(No statement)
Sulphide [Inorganic emissions to fresh water]	Mass	1,09E-06	kg	(Literature)
Sulphide [Inorganic emissions to sea water]	Mass	1,34E-07	kg	(No statement)
Sulphite [Inorganic emissions to fresh water]	Mass	3,80E-05	kg	(Literature)
Sulphur [Inorganic emissions to agricultural soil]	Mass	9,85E-06	kg	(No statement)
Sulphur [Inorganic emissions to fresh water]	Mass	7,46E-06	kg	(No statement)
Sulphur [Inorganic emissions to industrial soil]	Mass	1,43E-05	kg	(No statement)
Sulphur [Inorganic emissions to sea water]	Mass	7,37E-07	kg	(No statement)
Sulphur dioxide [Inorganic emissions to air]	Mass	1,23E-01	kg	(Literature)
Sulphur hexafluoride [Inorganic emissions to air]	Mass	3,33E-06	kg	(Literature)
Sulphuric acid [Inorganic emissions to air]	Mass	2,52E-07	kg	(Calculated)
Tailings [Stockpile goods]	Mass	1,02E+00	kg	(Literature)
Tebutam [Pesticides to agricultural soil]	Mass	9,97E-11	kg	(No statement)
Technetium (Tc99m) [Radioactive emissions to fresh water]	Activity	7,31E-03	Bq	(No statement)
Teflubenzuron [Pesticides to agricultural soil]	Mass	3,97E-11	kg	(No statement)
Tellurium (Te123m) [Radioactive emissions to fresh water]	Activity	1,55E-02	Bq	(No statement)
Tellurium (Te132) [Radioactive emissions to fresh water]	Activity	1,82E-05	Bq	(No statement)
Tetrafluoromethane [Halogenated organic emissions to	Mass	1,33E-06	kg	Measured

Appendix 2.6
LCI Data - Web based newspaper 30 minutes reading, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
air]				
Thallium [Fresh water]	Mass	1,95E-07	kg	(No statement)
Thallium [Heavy metals to air]	Mass	9,22E-09	kg	(Calculated)
Thallium [Heavy metals to fresh water]	Mass	7,38E-08	kg	(Measured)
Thorium (Th228) [Radioactive emissions to air]	Activity	9,64E-02	Bq	(No statement)
Thorium (Th228) [Radioactive emissions to fresh water]	Activity	5,43E+00	Bq	(No statement)
Thorium (Th228) [Radioactive emissions to sea water]	Activity	2,72E+00	Bq	(No statement)
Thorium (Th230) [Radioactive emissions to air]	Activity	6,94E+01	Bq	(No statement)
Thorium (Th230) [Radioactive emissions to fresh water]	Activity	1,77E+02	Bq	(No statement)
Thorium (Th232) [Radioactive emissions to air]	Activity	1,50E-01	Bq	(No statement)
Thorium (Th232) [Radioactive emissions to fresh water]	Activity	2,64E-01	Bq	(No statement)
Thorium (Th234) [Radioactive emissions to air]	Activity	7,02E-02	Bq	(No statement)
Thorium (Th234) [Radioactive emissions to fresh water]	Activity	1,30E+00	Bq	(No statement)
Tin [Fresh water]	Mass	2,11E-05	kg	(No statement)
Tin [Heavy metals to agricultural soil]	Mass	3,88E-09	kg	(No statement)
Tin [Heavy metals to air]	Mass	7,34E-07	kg	(Calculated)
Tin [Heavy metals to fresh water]	Mass	8,66E-08	kg	(Literature)
Titanium [Heavy metals to agricultural soil]	Mass	1,02E-06	kg	(No statement)
Titanium [Heavy metals to air]	Mass	8,02E-07	kg	(Estimated)
Titanium [Heavy metals to fresh water]	Mass	2,55E-06	kg	(Literature)
Titanium [Heavy metals to sea water]	Mass	2,45E-09	kg	(No statement)
Toluene (methyl benzene) [Group NMVOC to air]	Mass	3,76E-05	kg	(Literature)
Toluene (methyl benzene) [Hydrocarbons to fresh water]	Mass	4,42E-06	kg	(Literature)
Toluene (methyl benzene) [Hydrocarbons to sea water]	Mass	1,93E-06	kg	(No statement)
Top Cover (E-Paper) [Flows]	Mass	3,86E-01	kg	(No statement)
Total dissolved organic bounded carbon [Analytical measures to fresh water]	Mass	2,52E-03	kg	(Estimated)
Total dissolved organic bounded carbon [Analytical measures to sea water]	Mass	6,50E-04	kg	(No statement)
Total organic bounded carbon [Analytical measures to fresh water]	Mass	4,10E-03	kg	(Measured)
Total organic bounded carbon [Analytical measures to sea water]	Mass	6,50E-04	kg	(No statement)
Total organic carbon, TOC (Ecoinvent) [Fresh water]	Mass	1,39E-03	kg	(No statement)
Treatment residue (mineral) [Stockpile goods]	Mass	2,04E-03	kg	(Calculated)
Tributyltinoxide [Pesticides to sea water]	Mass	2,24E-07	kg	(No statement)
Trichloromethane (chloroform) [Halogenated organic emissions to air]	Mass	5,36E-09	kg	(No statement)
Trichloromethane (chloroform) [Halogenated organic emissions to fresh water]	Mass	7,64E-15	kg	(No statement)
Triethylene glycol [Hydrocarbons to sea water]	Mass	7,36E-07	kg	(No statement)
Tungsten [Fresh water]	Mass	1,97E-06	kg	(No statement)
Tungsten [Heavy metals to fresh water]	Mass	1,21E-06	kg	(No statement)
Uranium (total) [Radioactive emissions to air]	Activity	3,94E+00	Bq	(Literature)
Uranium (U234) [Radioactive emissions to air]	Activity	9,55E-01	Bq	(Literature)
Uranium (U234) [Radioactive emissions to fresh water]	Activity	1,56E+00	Bq	(No statement)
Uranium (U235) [Radioactive emissions to air]	Activity	4,63E-02	Bq	(Literature)
Uranium (U235) [Radioactive emissions to fresh water]	Activity	2,57E+00	Bq	(No statement)
Uranium (U238) [Radioactive emissions to air]	Activity	2,30E+00	Bq	(Literature)
Uranium (U238) [Radioactive emissions to fresh water]	Activity	4,48E+00	Bq	(No statement)
Uranium (U238) [Radioactive emissions to sea water]	Activity	2,73E-02	Bq	(No statement)
Uranium [Radioactive emissions to fresh water]	Activity	9,25E+01	Bq	(Literature)
Uranium depleted [Radioactive waste]	Mass	3,90E-05	kg	(Calculated)
Uranium spent as residue [Radioactive waste]	Mass	1,72E-09	kg	(Calculated)

Appendix 2.6
LCI Data - Web based newspaper 30 minutes reading, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Used air [Other emissions to air]	Mass	2,27E+00	kg	(Measured)
Used oil [Hazardous waste for recovery]	Mass	3,53E-12	kg	(Literature)
Vanadium [Fresh water]	Mass	3,47E-05	kg	(No statement)
Vanadium [Heavy metals to agricultural soil]	Mass	2,93E-08	kg	(No statement)
Vanadium [Heavy metals to air]	Mass	2,81E-05	kg	(Literature)
Vanadium [Heavy metals to fresh water]	Mass	3,92E-06	kg	(Literature)
Vanadium [Heavy metals to sea water]	Mass	8,34E-09	kg	(No statement)
Waste (unspecified) [Consumer waste]	Mass	3,71E-03	kg	(Calculated)
Waste heat [Fresh water]	Energy	2,73E-02	MJ	(No statement)
Waste heat [Other emissions to air]	Energy	2,81E+02	MJ	(Measured)
Waste heat [Other emissions to fresh water]	Energy	1,81E+01	MJ	(Measured)
Waste paper [Waste for recovery]	Mass	3,40E-06	kg	Measured
Waste radioactive [Radioactive waste]	Mass	3,29E-05	kg	(Literature)
Waste water [Other emissions to fresh water]	Mass	1,28E+04	kg	(Literature)
Waste water processing residue [Hazardous waste for recovery]	Mass	1,12E-01	kg	Literature
Wave solder dross [Hazardous waste for recovery]	Mass	2,72E-04	kg	Estimated
Vinyl chloride (VCM; chloroethene) [Halogenated organic emissions to air]	Mass	3,18E-07	kg	Calculated
Vinyl chloride (VCM; chloroethene) [Halogenated organic emissions to fresh water]	Mass	1,05E-09	kg	(No statement)
VOC (unspecified) [Organic emissions to air (group VOC)]	Mass	3,16E-04	kg	(Literature)
VOC [Organic emissions to fresh water]	Mass	1,28E-05	kg	(No statement)
VOC [Organic emissions to sea water]	Mass	4,76E-06	kg	(No statement)
Volatile fission products (inert gases;iodine;C14) [Radioactive waste]	Mass	1,26E-09	kg	(Estimated)
Xenon (Xe131m) [Radioactive emissions to air]	Activity	1,85E+01	Bq	(Literature)
Xenon (Xe133) [Radioactive emissions to air]	Activity	8,93E+02	Bq	(Literature)
Xenon (Xe133m) [Radioactive emissions to air]	Activity	6,10E+00	Bq	(Literature)
Xenon (Xe135) [Radioactive emissions to air]	Activity	3,47E+02	Bq	(Literature)
Xenon (Xe135m) [Radioactive emissions to air]	Activity	1,52E+02	Bq	(Literature)
Xenon (Xe137) [Radioactive emissions to air]	Activity	2,11E+00	Bq	(Literature)
Xenon (Xe138) [Radioactive emissions to air]	Activity	2,64E+01	Bq	(Literature)
Xylene (dimethyl benzene) [Group NMVOC to air]	Mass	2,58E-04	kg	(Calculated)
Xylene (isomers; dimethyl benzene) [Hydrocarbons to fresh water]	Mass	1,28E-05	kg	(Literature)
Xylene (isomers; dimethyl benzene) [Hydrocarbons to sea water]	Mass	1,61E-06	kg	(No statement)
Xylene (meta-Xylene; 1,3-Dimethylbenzene) [Group NMVOC to air]	Mass	6,68E-07	kg	(No statement)
Zinc (Zn65) [Radioactive emissions to air]	Activity	1,31E-05	Bq	(No statement)
Zinc (Zn65) [Radioactive emissions to fresh water]	Activity	3,23E-02	Bq	(No statement)
Zinc [Fresh water]	Mass	4,25E-05	kg	(No statement)
Zinc [Heavy metals to agricultural soil]	Mass	3,17E-06	kg	(No statement)
Zinc [Heavy metals to air]	Mass	2,72E-05	kg	(Literature)
Zinc [Heavy metals to fresh water]	Mass	1,53E-05	kg	(Literature)
Zinc [Heavy metals to industrial soil]	Mass	7,18E-06	kg	Measured
Zinc [Heavy metals to sea water]	Mass	2,73E-05	kg	(No statement)
Zinc sulphate [Inorganic emissions to air]	Mass	3,59E-08	kg	Measured
Zirconium (Zr) [Air]	Mass	1,18E-10	kg	(No statement)
Zirconium (Zr95) [Radioactive emissions to air]	Activity	1,28E-05	Bq	(No statement)
Zirconium (Zr95) [Radioactive emissions to fresh water]	Activity	3,74E-04	Bq	(No statement)

Appendix 2.7 LCI Data - Web based newspaper 30 minutes reading, Swedish scenario

In the tables below the LCI data for the studied system "Web based newspaper 30 minutes reading, Swedish scenario" are presented. The data are divided as inputs to the system and outputs from the system.

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Air [Operating materials]	Mass	1,07E-16	kg	Estimated
Air [Renewable resources]	Mass	3,67E+01	kg	(Calculated)
Aluminum [Non renewable elements]	Mass	3,28E-03	kg	(No statement)
Antimonite [Non renewable resources]	Mass	4,40E-11	kg	(No statement)
Barium sulphate [Non renewable resources]	Mass	1,42E-03	kg	(No statement)
Basalt [Non renewable resources]	Mass	2,47E-04	kg	(No statement)
Bauxite [Non renewable resources]	Mass	3,16E-02	kg	Calculated
Bentonite [Non renewable resources]	Mass	1,36E-03	kg	(Literature)
Borax [Non renewable resources]	Mass	1,11E-07	kg	(No statement)
Calcium chloride [Non renewable resources]	Mass	2,34E-11	kg	Literature
Carbon dioxide [Renewable resources]	Mass	3,12E+00	kg	Calculated
Catalyst [Operating materials]	Mass	9,83E-07	kg	Calculated
Chromium [Non renewable elements]	Mass	6,40E-04	kg	(No statement)
Chrysotile [Non renewable resources]	Mass	5,34E-08	kg	(No statement)
Cinnabar [Non renewable resources]	Mass	5,77E-09	kg	(No statement)
Circuit material (Fe carrier) [Metals]	Mass	1,14E-08	kg	Calculated
Clay [Non renewable resources]	Mass	3,62E-02	kg	(No statement)
Cobalt [Non renewable elements]	Mass	9,72E-10	kg	(No statement)
Colemanite ore [Non renewable resources]	Mass	5,67E-04	kg	Calculated
Cooling water [Operating materials]	Mass	1,73E+01	kg	(Measured)
Copper [Non renewable elements]	Mass	1,95E-03	kg	(No statement)
Copper ore (0.14%) [Non renewable resources]	Mass	7,67E+00	kg	Measured
Copper ore (0.3%) [Non renewable resources]	Mass	3,12E-08	kg	Estimated
Crude oil [Crude oil (resource)]	Mass	2,19E-01	kg	(Literature)
Crude oil Algeria [Crude oil (resource)]	Mass	9,58E-03	kg	(Literature)
Crude oil Angola [Crude oil (resource)]	Mass	3,69E-03	kg	(Estimated)
Crude oil Argentina [Crude oil (resource)]	Mass	2,25E-05	kg	Literature
Crude oil Australia [Crude oil (resource)]	Mass	8,62E-04	kg	(Estimated)
Crude oil Brazil [Crude oil (resource)]	Mass	4,87E-04	kg	Literature
Crude oil Cameroon [Crude oil (resource)]	Mass	1,50E-03	kg	(Estimated)
Crude oil Canada [Crude oil (resource)]	Mass	1,28E-02	kg	(Literature)
Crude oil Central Africa [Crude oil (resource)]	Mass	1,30E-04	kg	(Calculated)
Crude oil Central America [Crude oil (resource)]	Mass	7,96E-05	kg	(Calculated)
Crude oil China [Crude oil (resource)]	Mass	6,54E-02	kg	(Calculated)
Crude oil CIS [Crude oil (resource)]	Mass	4,04E-02	kg	(Literature)
Crude oil Colombia [Crude oil (resource)]	Mass	4,95E-06	kg	(Literature)
Crude oil Denmark [Crude oil (resource)]	Mass	1,49E-04	kg	(Literature)
Crude oil Egypt [Crude oil (resource)]	Mass	4,28E-03	kg	(Estimated)
Crude oil France [Crude oil (resource)]	Mass	1,20E-04	kg	(Literature)
Crude oil free wellhead [Crude oil (resource)]	Mass	-1,67E-05	kg	Literature
Crude oil Gabon [Crude oil (resource)]	Mass	2,01E-04	kg	(Estimated)
Crude oil Germany [Crude oil (resource)]	Mass	4,10E-03	kg	(Literature)
Crude oil Indonesia [Crude oil (resource)]	Mass	2,46E-04	kg	(Estimated)
Crude oil Iran [Crude oil (resource)]	Mass	1,94E-02	kg	(Estimated)

Appendix 2.7
LCI Data - Web based newspaper with print-out, Swedish scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Crude oil Italy [Crude oil (resource)]	Mass	4,38E-03	kg	(Literature)
Crude oil Kuwait [Crude oil (resource)]	Mass	1,81E-03	kg	(Estimated)
Crude oil Libya [Crude oil (resource)]	Mass	3,83E-02	kg	(Literature)
Crude oil Mexico [Crude oil (resource)]	Mass	1,41E-03	kg	(Literature)
Crude oil Middle East [Crude oil (resource)]	Mass	3,42E-04	kg	(Calculated)
Crude oil Netherlands [Crude oil (resource)]	Mass	4,05E-04	kg	(Literature)
Crude oil New Zealand [Crude oil (resource)]	Mass	3,00E-05	kg	(Estimated)
Crude oil Nigeria [Crude oil (resource)]	Mass	9,88E-03	kg	(Estimated)
Crude oil North Africa [Crude oil (resource)]	Mass	2,48E-04	kg	(Calculated)
Crude oil Norway [Crude oil (resource)]	Mass	3,30E-02	kg	(Literature)
Crude oil Oman [Crude oil (resource)]	Mass	3,45E-03	kg	(Estimated)
Crude oil Qatar [Crude oil (resource)]	Mass	9,99E-05	kg	(Estimated)
Crude oil Saudi Arabia [Crude oil (resource)]	Mass	2,89E-02	kg	(Estimated)
Crude oil Tunisia [Crude oil (resource)]	Mass	1,99E-04	kg	(Literature)
Crude oil United Arab Emirates [Crude oil (resource)]	Mass	1,28E-04	kg	(Estimated)
Crude oil United Kingdom [Crude oil (resource)]	Mass	3,18E-02	kg	(Literature)
Crude oil USA [Crude oil (resource)]	Mass	1,40E-04	kg	(Literature)
Crude oil Venezuela [Crude oil (resource)]	Mass	8,49E-03	kg	(Literature)
Diatomite [Non renewable resources]	Mass	4,24E-10	kg	(No statement)
Dolomite [Non renewable resources]	Mass	1,93E-04	kg	(Literature)
Energy, calorific value, in organic substance [biotic]	Energy ren.	3,46E+01	MJ	(No statement)
Feldspar (aluminum silicates) [Non renewable resources]	Mass	5,41E-11	kg	(No statement)
Fluorine [Non renewable elements]	Mass	3,00E-06	kg	(No statement)
Fluorspar (calcium fluoride; fluorite) [Non renewable resources]	Mass	4,90E-04	kg	Calculated
Granite [Non renewable resources]	Mass	2,65E-07	kg	(No statement)
Gypsum (natural gypsum) [Non renewable resources]	Mass	2,97E-07	kg	(No statement)
Hard coal [Hard coal (resource)]	Mass	1,51E+00	kg	(Literature)
Hard coal Australia [Hard coal (resource)]	Mass	1,70E-02	kg	(Calculated)
Hard coal Belgium [Hard coal (resource)]	Mass	1,16E-03	kg	(Calculated)
Hard coal Brazil [Hard coal (resource)]	Mass	1,07E-04	kg	Estimated
Hard coal Canada [Hard coal (resource)]	Mass	6,89E-03	kg	(Calculated)
Hard coal China [Hard coal (resource)]	Mass	1,21E+00	kg	(Calculated)
Hard coal CIS [Hard coal (resource)]	Mass	7,44E-03	kg	(Calculated)
Hard coal Colombia [Hard coal (resource)]	Mass	1,51E-02	kg	(Measured)
Hard coal Czech Republic [Hard coal (resource)]	Mass	8,06E-03	kg	(Measured)
Hard coal France [Hard coal (resource)]	Mass	1,41E-02	kg	(Calculated)
Hard coal Germany [Hard coal (resource)]	Mass	2,34E-01	kg	(Calculated)
Hard coal Indonesia [Hard coal (resource)]	Mass	6,32E-03	kg	(Measured)
Hard coal Japan [Hard coal (resource)]	Mass	1,12E-05	kg	(Calculated)
Hard coal Poland [Hard coal (resource)]	Mass	3,07E-02	kg	(Calculated)
Hard coal Portugal [Hard coal (resource)]	Mass	2,10E-04	kg	Estimated
Hard coal South Africa [Hard coal (resource)]	Mass	1,39E-01	kg	(Measured)
Hard coal Spain [Hard coal (resource)]	Mass	2,79E-02	kg	(Calculated)
Hard coal United Kingdom [Hard coal (resource)]	Mass	3,63E-03	kg	(Calculated)
Hard coal USA [Hard coal (resource)]	Mass	7,15E-02	kg	(Calculated)
Hard coal Venezuela [Hard coal (resource)]	Mass	1,57E-02	kg	(Measured)
Heavy spar (barytes) [Non renewable resources]	Mass	3,80E-03	kg	(Literature)
Inert rock [Non renewable resources]	Mass	1,02E+01	kg	(Literature)
Iron [Non renewable elements]	Mass	2,54E-02	kg	(Estimated)
Iron ore (65%) [Non renewable resources]	Mass	3,92E-04	kg	(Estimated)
Iron ore [Non renewable resources]	Mass	4,38E-01	kg	(Calculated)

Appendix 2.7
LCI Data - Web based newspaper with print-out, Swedish scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Kaolin ore [Non renewable resources]	Mass	6,57E-03	kg	Measured
Kaolinite (24% in ore as mined) [Non renewable resources]	Mass	1,81E-05	kg	(No statement)
Kieserite (25% in ore as mined) [Non renewable resources]	Mass	1,36E-07	kg	(No statement)
Lead - zinc ore (4.6%-0.6%) [Non renewable resources]	Mass	2,80E-02	kg	Calculated
Lead [Non renewable elements]	Mass	1,68E-03	kg	(No statement)
Lead ore [Non renewable resources]	Mass	5,28E-04	kg	Estimated
Lignite [Lignite (resource)]	Mass	4,63E-02	kg	(Estimated)
Lignite Australia [Lignite (resource)]	Mass	1,10E-04	kg	Literature
Lignite Australia [Lignite (resource)]	Mass	1,09E-03	kg	Literature
Lignite Austria [Lignite (resource)]	Mass	1,44E-06	kg	(Estimated)
Lignite France [Lignite (resource)]	Mass	1,68E-06	kg	Calculated
Lignite Germany (Lausitz) [Lignite (resource)]	Mass	1,24E-04	kg	Calculated
Lignite Germany (Rheinisch) [Lignite (resource)]	Mass	1,56E-02	kg	(Calculated)
Lignite Germany [Lignite (resource)]	Mass	5,84E-01	kg	(Literature)
Lignite Greece [Lignite (resource)]	Mass	2,64E-01	kg	Literature
Lignite Spain [Lignite (resource)]	Mass	5,31E-02	kg	(Literature)
Lignite USA [Lignite (resource)]	Mass	1,56E-04	kg	Literature
Limestone (calcium carbonate) [Non renewable resources]	Mass	2,29E-01	kg	(Literature)
Magnesit (Magnesium carbonate) [Non renewable resources]	Mass	2,93E-04	kg	(No statement)
Magnesium [Non renewable elements]	Mass	3,76E-08	kg	(No statement)
Manganese [Non renewable elements]	Mass	9,22E-05	kg	(No statement)
Manganese ore (R.O.M.) [Non renewable resources]	Mass	2,28E-03	kg	Calculated
Molybdenite (Mo 0,24%) [Non renewable resources]	Mass	7,05E-05	kg	Estimated
Molybdenum [Non renewable elements]	Mass	1,25E-04	kg	(No statement)
Natural Aggregate [Non renewable resources]	Mass	8,66E-01	kg	Calculated
Natural gas [Natural gas (resource)]	Mass	4,45E-01	kg	(Literature)
Natural gas Algeria [Natural gas (resource)]	Mass	1,64E-02	kg	(Literature)
Natural gas Angola [Natural gas (resource)]	Mass	2,99E-04	kg	(Estimated)
Natural gas Argentina [Natural gas (resource)]	Mass	7,38E-07	kg	Literature
Natural gas Australia [Natural gas (resource)]	Mass	3,43E-04	kg	(Estimated)
Natural gas Brazil [Natural gas (resource)]	Mass	1,22E-04	kg	(Estimated)
Natural gas Brunei [Natural gas (resource)]	Mass	1,27E-05	kg	Estimated
Natural gas Cameroon [Natural gas (resource)]	Mass	1,22E-04	kg	(Estimated)
Natural gas Canada [Natural gas (resource)]	Mass	3,23E-04	kg	(Literature)
Natural gas China [Natural gas (resource)]	Mass	3,71E-03	kg	(Calculated)
Natural gas CIS [Natural gas (resource)]	Mass	2,11E-01	kg	(Literature)
Natural gas Colombia [Natural gas (resource)]	Mass	1,88E-07	kg	(Literature)
Natural gas Denmark [Natural gas (resource)]	Mass	5,68E-03	kg	(Estimated)
Natural gas Egypt [Natural gas (resource)]	Mass	3,47E-04	kg	(Estimated)
Natural gas France [Natural gas (resource)]	Mass	5,22E-04	kg	(Estimated)
Natural gas Gabon [Natural gas (resource)]	Mass	1,67E-05	kg	(Estimated)
Natural gas Germany [Natural gas (resource)]	Mass	1,12E-01	kg	(Literature)
Natural gas Indonesia [Natural gas (resource)]	Mass	6,23E-05	kg	(Estimated)
Natural gas Iran [Natural gas (resource)]	Mass	7,27E-04	kg	(Estimated)
Natural gas Italy [Natural gas (resource)]	Mass	8,89E-03	kg	(Literature)
Natural gas Japan [Natural gas (resource)]	Mass	3,63E-06	kg	Estimated
Natural gas Kuwait [Natural gas (resource)]	Mass	6,77E-05	kg	(Estimated)
Natural gas Libyan [Natural gas (resource)]	Mass	3,71E-03	kg	(Literature)
Natural gas Malaysia [Natural gas (resource)]	Mass	1,80E-05	kg	Estimated
Natural gas Mexico [Natural gas (resource)]	Mass	4,64E-05	kg	(Literature)

Appendix 2.7
LCI Data - Web based newspaper with print-out, Swedish scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Natural gas Netherlands [Natural gas (resource)]	Mass	1,90E-01	kg	(Estimated)
Natural gas New Zealand [Natural gas (resource)]	Mass	6,63E-07	kg	(Estimated)
Natural gas Nigeria [Natural gas (resource)]	Mass	8,01E-04	kg	(Estimated)
Natural gas Norway [Natural gas (resource)]	Mass	8,95E-02	kg	(Estimated)
Natural gas Oman [Natural gas (resource)]	Mass	1,29E-04	kg	(Estimated)
Natural gas Qatar [Natural gas (resource)]	Mass	3,73E-06	kg	(Estimated)
Natural gas Saudi Arabia [Natural gas (resource)]	Mass	1,08E-03	kg	(Estimated)
Natural gas Spain [Natural gas (resource)]	Mass	1,59E-04	kg	(Estimated)
Natural gas Tunisia [Natural gas (resource)]	Mass	1,61E-05	kg	(Literature)
Natural gas United Arab Emirates [Natural gas (resource)]	Mass	1,39E-05	kg	(Estimated)
Natural gas United Kingdom [Natural gas (resource)]	Mass	4,47E-03	kg	(Literature)
Natural gas USA [Natural gas (resource)]	Mass	4,25E-04	kg	(Estimated)
Natural gas Venezuela [Natural gas (resource)]	Mass	4,99E-04	kg	(Literature)
Nickel [Non renewable elements]	Mass	1,71E-03	kg	(No statement)
Nickel ore (1.6%) [Non renewable resources]	Mass	2,14E-02	kg	Measured
Nitrogen [Renewable resources]	Mass	1,38E-06	kg	(Literature)
Occupation, arable, non-irrigated [Hemerobie ecoinvent]	Areatime	2,80E-04	m2*yr	(No statement)
Occupation, construction site [Hemerobie ecoinvent]	Areatime	1,85E-04	m2*yr	(No statement)
Occupation, dump site [Hemerobie ecoinvent]	Areatime	9,86E-03	m2*yr	(No statement)
Occupation, dump site, benthos [Hemerobie ecoinvent]	Areatime	1,96E-04	m2*yr	(No statement)
Occupation, forest, intensive [Hemerobie ecoinvent]	Areatime	3,58E-04	m2*yr	(No statement)
Occupation, forest, intensive, normal [Hemerobie ecoinvent]	Areatime	6,20E-01	m2*yr	(No statement)
Occupation, industrial area [Hemerobie ecoinvent]	Areatime	5,94E-03	m2*yr	(No statement)
Occupation, industrial area, benthos [Hemerobie ecoinvent]	Areatime	2,04E-06	m2*yr	(No statement)
Occupation, industrial area, built up [Hemerobie ecoinvent]	Areatime	8,13E-04	m2*yr	(No statement)
Occupation, industrial area, vegetation [Hemerobie ecoinvent]	Areatime	7,34E-04	m2*yr	(No statement)
Occupation, mineral extraction site [Hemerobie ecoinvent]	Areatime	6,61E-03	m2*yr	(No statement)
Occupation, permanent crop, fruit, intensive [Hemerobie ecoinvent]	Areatime	1,10E-05	m2*yr	(No statement)
Occupation, shrub land, sclerophyllous [Hemerobie ecoinvent]	Areatime	1,67E-04	m2*yr	(No statement)
Occupation, traffic area, rail embankment [Hemerobie ecoinvent]	Areatime	2,54E-04	m2*yr	(No statement)
Occupation, traffic area, rail network [Hemerobie ecoinvent]	Areatime	2,81E-04	m2*yr	(No statement)
Occupation, traffic area, road embankment [Hemerobie ecoinvent]	Areatime	6,22E-03	m2*yr	(No statement)
Occupation, traffic area, road network [Hemerobie ecoinvent]	Areatime	1,82E-03	m2*yr	(No statement)
Occupation, urban, discontinuously built [Hemerobie ecoinvent]	Areatime	5,44E-07	m2*yr	(No statement)
Occupation, water bodies, artificial [Hemerobie ecoinvent]	Areatime	1,44E-01	m2*yr	(No statement)
Occupation, water courses, artificial [Hemerobie ecoinvent]	Areatime	3,02E-02	m2*yr	(No statement)
Olivine [Non renewable resources]	Mass	7,22E-09	kg	(No statement)
Palladium [Non renewable elements]	Mass	8,02E-10	kg	(No statement)
Peat [Renewable resources]	Mass	4,19E-01	kg	(No statement)
Phosphorus [Non renewable elements]	Mass	1,21E-05	kg	(No statement)
Phosphorus minerals [Non renewable resources]	Mass	6,13E-07	kg	Literature

Appendix 2.7
LCI Data - Web based newspaper with print-out, Swedish scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Pit gas [Natural gas (resource)]	Mass	3,38E-02	kg	(Literature)
Platinum [Non renewable elements]	Mass	1,49E-09	kg	(No statement)
Potassium chloride [Non renewable resources]	Mass	2,16E-05	kg	Calculated
Precious metal ore (R.O.M) [Non renewable resources]	Mass	4,92E-01	kg	Calculated
Primary energy from hydro power (BUWAL) [Renewable energy resources]	Energy ren.	-1,19E-03	MJ	Literature
Primary energy from hydro power [Renewable energy resources]	Energy ren.	1,12E+02	MJ	(Literature)
Primary energy from solar energy [Renewable energy resources]	Energy ren.	4,95E-02	MJ	Literature
Primary energy from wind power [Renewable energy resources]	Energy ren.	6,93E+00	MJ	Calculated
Process and cooling water [Operating materials]	Mass	8,62E-09	kg	Literature
Process water [Operating materials]	Mass	5,38E+01	kg	(Measured)
Quartz sand (silica sand; silicon dioxide) [Non renewable resources]	Mass	1,37E-02	kg	(Literature)
Raw brown coal (BUWAL) [Lignite (resource)]	Mass	-1,96E-06	kg	Literature
Raw hard coal (BUWAL) [Hard coal (resource)]	Mass	-1,69E-06	kg	Literature
Raw natural gas (BUWAL) [Natural gas (resource)]	Mass	-2,77E-06	kg	Literature
Refractory [Minerals]	Mass	4,26E-12	kg	Measured
Renewable fuels [Renewable energy resources]	Mass	-1,45E-06	kg	Calculated
Rhenium [Non renewable elements]	Mass	7,04E-12	kg	(No statement)
Rhodium [Non renewable elements]	Mass	2,22E-11	kg	(No statement)
Rutile (titanium ore) [Non renewable resources]	Mass	2,38E-11	kg	(No statement)
sand [Non renewable resources]	Mass	3,37E-05	kg	(No statement)
Silver [Non renewable elements]	Mass	2,02E-10	kg	(No statement)
Slate [Non renewable resources]	Mass	4,02E-08	kg	(No statement)
Sodium chloride (rock salt) [Non renewable resources]	Mass	1,75E-01	kg	(Literature)
Sodium sulphate [Non renewable resources]	Mass	5,64E-05	kg	Literature
Soil [Non renewable resources]	Mass	1,77E-02	kg	(Calculated)
Steel scrap (St) [Waste for recovery]	Mass	2,79E-02	kg	Calculated
Sulphite [Inorganic emissions to sea water]	Mass	3,68E-16	kg	(No statement)
Sulphur (bonded) [Non renewable resources]	Mass	1,46E-07	kg	(Literature)
Sulphur [Non renewable elements]	Mass	1,58E-05	kg	(Literature)
Sylvite (25% in Sylvinite) [Non renewable resources]	Mass	1,06E-05	kg	(No statement)
Talc [Non renewable resources]	Mass	4,56E-04	kg	Calculated
Tin [Non renewable elements]	Mass	1,42E-06	kg	(No statement)
Tin ore [Non renewable resources]	Mass	2,13E-03	kg	Estimated
Titanium dioxide [Non renewable resources]	Mass	1,77E-04	kg	(No statement)
Titanium ore [Non renewable resources]	Mass	6,76E-06	kg	(No statement)
Transformation, from arable [Hemerobie ecoinvent]	Area	1,41E-05	sqm	(No statement)
Transformation, from arable, non-irrigated [Hemerobie ecoinvent]	Area	5,17E-04	sqm	(No statement)
Transformation, from arable, non-irrigated, fallow [Hemerobie ecoinvent]	Area	2,11E-07	sqm	(No statement)
Transformation, from dump site, inert material landfill [Hemerobie ecoinvent]	Area	3,01E-05	sqm	(No statement)
Transformation, from dump site, residual material landfill [Hemerobie ecoinvent]	Area	2,12E-06	sqm	(No statement)
Transformation, from dump site, sanitary landfill [Hemerobie ecoinvent]	Area	9,32E-07	sqm	(No statement)
Transformation, from dump site, slag compartment [Hemerobie ecoinvent]	Area	3,72E-07	sqm	(No statement)
Transformation, from forest [Hemerobie ecoinvent]	Area	3,43E-04	sqm	(No statement)
Transformation, from forest, extensive [Hemerobie	Area	4,71E-03	sqm	(No statement)

Appendix 2.7
LCI Data - Web based newspaper with print-out, Swedish scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
ecoinvent]				
Transformation, from industrial area [Hemerobie ecoinvent]	Area	2,08E-05	sqm	(No statement)
Transformation, from industrial area, benthos [Hemerobie ecoinvent]	Area	2,56E-08	sqm	(No statement)
Transformation, from industrial area, built up [Hemerobie ecoinvent]	Area	2,91E-09	sqm	(No statement)
Transformation, from industrial area, vegetation [Hemerobie ecoinvent]	Area	4,96E-09	sqm	(No statement)
Transformation, from mineral extraction site [Hemerobie ecoinvent]	Area	1,06E-04	sqm	(No statement)
Transformation, from pasture and meadow [Hemerobie ecoinvent]	Area	2,56E-04	sqm	(No statement)
Transformation, from pasture and meadow, intensive [Hemerobie ecoinvent]	Area	4,16E-07	sqm	(No statement)
Transformation, from sea and ocean [Hemerobie ecoinvent]	Area	1,97E-04	sqm	(No statement)
Transformation, from shrub land, sclerophyllous [Hemerobie ecoinvent]	Area	2,18E-04	sqm	(No statement)
Transformation, from unknown [Hemerobie ecoinvent]	Area	1,52E-03	sqm	(No statement)
Transformation, to arable [Hemerobie ecoinvent]	Area	5,87E-05	sqm	(No statement)
Transformation, to arable, non-irrigated [Hemerobie ecoinvent]	Area	5,17E-04	sqm	(No statement)
Transformation, to arable, non-irrigated, fallow [Hemerobie ecoinvent]	Area	3,60E-07	sqm	(No statement)
Transformation, to dump site [Hemerobie ecoinvent]	Area	7,78E-05	sqm	(No statement)
Transformation, to dump site, benthos [Hemerobie ecoinvent]	Area	1,96E-04	sqm	(No statement)
Transformation, to dump site, inert material landfill [Hemerobie ecoinvent]	Area	3,01E-05	sqm	(No statement)
Transformation, to dump site, residual material landfill [Hemerobie ecoinvent]	Area	2,12E-06	sqm	(No statement)
Transformation, to dump site, sanitary landfill [Hemerobie ecoinvent]	Area	9,32E-07	sqm	(No statement)
Transformation, to dump site, slag compartment [Hemerobie ecoinvent]	Area	3,72E-07	sqm	(No statement)
Transformation, to forest [Hemerobie ecoinvent]	Area	9,64E-05	sqm	(No statement)
Transformation, to forest, intensive [Hemerobie ecoinvent]	Area	2,39E-06	sqm	(No statement)
Transformation, to forest, intensive, normal [Hemerobie ecoinvent]	Area	4,66E-03	sqm	(No statement)
Transformation, to heterogeneous, agricultural [Hemerobie ecoinvent]	Area	1,76E-05	sqm	(No statement)
Transformation, to industrial area [Hemerobie ecoinvent]	Area	1,17E-04	sqm	(No statement)
Transformation, to industrial area, benthos [Hemerobie ecoinvent]	Area	1,37E-07	sqm	(No statement)
Transformation, to industrial area, built up [Hemerobie ecoinvent]	Area	3,56E-05	sqm	(No statement)
Transformation, to industrial area, vegetation [Hemerobie ecoinvent]	Area	1,97E-05	sqm	(No statement)
Transformation, to mineral extraction site [Hemerobie ecoinvent]	Area	6,10E-04	sqm	(No statement)
Transformation, to pasture and meadow [Hemerobie ecoinvent]	Area	1,57E-06	sqm	(No statement)
Transformation, to permanent crop, fruit, intensive [Hemerobie ecoinvent]	Area	1,86E-07	sqm	(No statement)
Transformation, to sea and ocean [Hemerobie ecoinvent]	Area	2,56E-08	sqm	(No statement)
Transformation, to shrub land, sclerophyllous [Hemerobie	Area	3,35E-05	sqm	(No statement)

Appendix 2.7
LCI Data - Web based newspaper with print-out, Swedish scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
ecoinvent]				
Transformation, to traffic area, rail embankment [Hemerobie ecoinvent]	Area	5,90E-07	sqm	(No statement)
Transformation, to traffic area, rail network [Hemerobie ecoinvent]	Area	6,49E-07	sqm	(No statement)
Transformation, to traffic area, road embankment [Hemerobie ecoinvent]	Area	4,63E-05	sqm	(No statement)
Transformation, to traffic area, road network [Hemerobie ecoinvent]	Area	3,45E-05	sqm	(No statement)
Transformation, to unknown [Hemerobie ecoinvent]	Area	2,02E-05	sqm	(No statement)
Transformation, to urban, discontinuously built [Hemerobie ecoinvent]	Area	1,08E-08	sqm	(No statement)
Transformation, to water bodies, artificial [Hemerobie ecoinvent]	Area	9,86E-04	sqm	(No statement)
Transformation, to water courses, artificial [Hemerobie ecoinvent]	Area	3,72E-04	sqm	(No statement)
Ulexite [Non renewable resources]	Mass	3,31E-06	kg	(No statement)
Uranium free ore (BUWAL) [Uranium (resource)]	Mass	-5,46E-08	kg	Literature
Uranium free ore [Uranium (resource)]	Mass	1,97E-16	kg	Literature
Uranium natural [Uranium (resource)]	Mass	2,22E-04	kg	(Literature)
Waste (unspecified) [Consumer waste]	Mass	9,96E-04	kg	(No statement)
Waste for recovery (unspecified) [Waste for recovery]	Mass	2,96E-01	kg	(No statement)
Water (feed water) [Water]	Mass	1,27E-02	kg	(Literature)
Water (ground water) [Water]	Mass	1,88E+01	kg	(Estimated)
Water (lake water) [Water]	Mass	1,24E-01	kg	(No statement)
Water (river water) [Water]	Mass	6,53E+01	kg	(No statement)
Water (sea water) [Water]	Mass	1,04E+01	kg	(Literature)
Water (surface water) [Water]	Mass	1,88E+02	kg	(Literature)
Water [Water]	Mass	2,39E+02	kg	(Literature)
Water for industrial use [Operating materials]	Mass	5,80E+00	kg	(Calculated)
Water, salt, sole [in water]	Volume	1,57E-04	m3	(No statement)
Water,turbine use, unspecified natural origin [in water]	Volume	3,29E+02	m3	(No statement)
Vermiculite [Non renewable resources]	Mass	1,19E-07	kg	(No statement)
Volume occupied, final repository for low-active radioactive waste [Hemerobie ecoinvent]	Volume	3,45E-07	m3	(No statement)
Volume occupied, final repository for radioactive waste [Hemerobie ecoinvent]	Volume	8,82E-08	m3	(No statement)
Volume occupied, reservoir [Hemerobie ecoinvent]	Cubic meter years	2,50E+00	m3a	(No statement)
Volume occupied, underground deposit [Hemerobie ecoinvent]	Volume	1,07E-07	m3	(No statement)
Wood (BUWAL) [Renewable energy resources]	Mass	-3,87E-02	kg	Literature
Wood [Renewable energy resources]	Mass	7,18E-03	kg	(Estimated)
Wood, hard, standing [biotic]	Volume	9,52E-04	m3	(No statement)
Wood, soft, standing [biotic]	Volume	2,45E-03	m3	(No statement)
Zinc - copper ore (4.07%-2.59%) [Non renewable resources]	Mass	3,67E-01	kg	(Estimated)
Zinc - lead - copper ore (12%-3%-2%) [Non renewable resources]	Mass	2,74E-01	kg	Calculated
Zinc - lead ore (4.21%-4.96%) [Non renewable resources]	Mass	4,36E-10	kg	Estimated
Zinc [Non renewable elements]	Mass	4,91E-05	kg	(No statement)
Zinc ore (sulphide) [Non renewable resources]	Mass	3,02E-11	kg	Calculated

Appendix 2.7
LCI Data - Web based newspaper with print-out, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Acenaphthene [Hydrocarbons to fresh water]	Mass	5,29E-11	kg	(No statement)
Acenaphthene [Hydrocarbons to sea water]	Mass	2,54E-11	kg	(No statement)
Acenaphthylene [Hydrocarbons to fresh water]	Mass	3,31E-12	kg	(No statement)
Acenaphthylene [Hydrocarbons to sea water]	Mass	1,59E-12	kg	(No statement)
Acentaphthene [Group NMVOC to air]	Mass	1,30E-11	kg	(No statement)
Acetaldehyde (Ethanal) [Group NMVOC to air]	Mass	4,65E-06	kg	(Literature)
Acetic acid [Group NMVOC to air]	Mass	1,54E-05	kg	(Literature)
Acetic acid [Hydrocarbons to fresh water]	Mass	2,85E-08	kg	(No statement)
Acetone (dimethylcetone) [Group NMVOC to air]	Mass	4,19E-06	kg	(Literature)
Acid (calculated as H+) [Inorganic emissions to fresh water]	Mass	4,50E-05	kg	(Literature)
Aclonifen [Pesticides to agricultural soil]	Mass	1,05E-09	kg	(No statement)
Acrolein [Group NMVOC to air]	Mass	8,14E-10	kg	(No statement)
Acrylonitrile [Hydrocarbons to fresh water]	Mass	3,05E-05	kg	(Calculated)
Adsorbable organic halogen compounds (AOX) [Analytical measures to fresh water]	Mass	1,25E-04	kg	(Measured)
Adsorbable organic halogen compounds (AOX) [Analytical measures to sea water]	Mass	1,48E-09	kg	(No statement)
Aktinide (general) [Radioactive emissions to air]	Activity	4,36E-06	Bq	(No statement)
Aktinide (general) [Radioactive emissions to sea water]	Activity	4,83E-01	Bq	(No statement)
Aldehyde (unspecified) [Group NMVOC to air]	Mass	2,26E-07	kg	(Literature)
Alkane (unspecified) [Group NMVOC to air]	Mass	8,57E-05	kg	(Calculated)
Alkane (unspecified) [Hydrocarbons to fresh water]	Mass	1,10E-06	kg	(No statement)
Alkane (unspecified) [Hydrocarbons to sea water]	Mass	5,32E-07	kg	(No statement)
Alkene (unspecified) [Group NMVOC to air]	Mass	1,23E-04	kg	(Calculated)
Alkene (unspecified) [Hydrocarbons to fresh water]	Mass	1,02E-07	kg	(No statement)
Alkene (unspecified) [Hydrocarbons to sea water]	Mass	4,91E-08	kg	(No statement)
Aluminum [Fresh water]	Mass	1,89E-03	kg	(No statement)
Aluminum [Inorganic emissions to agricultural soil]	Mass	8,15E-05	kg	(No statement)
Aluminum [Inorganic emissions to fresh water]	Mass	9,42E-05	kg	(Literature)
Aluminum [Inorganic emissions to industrial soil]	Mass	7,38E-06	kg	(No statement)
Aluminum [Inorganic emissions to sea water]	Mass	3,13E-06	kg	(No statement)
Aluminum [Particles to air]	Mass	1,39E-04	kg	(No statement)
Aluminum scrap [Waste for recovery]	Mass	3,31E-06	kg	Measured
Americium (Am241) [Radioactive emissions to fresh water]	Activity	5,74E-02	Bq	Calculated
Ammonia [Inorganic emissions to air]	Mass	1,84E-04	kg	(Calculated)
Ammonia [Inorganic emissions to fresh water]	Mass	1,39E-06	kg	(Measured)
Ammonium / ammonia [Fresh water]	Mass	4,91E-07	kg	(No statement)
Ammonium / ammonia [Inorganic emissions to fresh water]	Mass	3,44E-04	kg	(Literature)
Ammonium / ammonia [Inorganic emissions to sea water]	Mass	3,25E-07	kg	(No statement)
Ammonium [Inorganic emissions to air]	Mass	7,65E-06	kg	Measured
Ammonium carbonate [high population density]	Mass	8,59E-09	kg	(No statement)
Ammonium nitrate [Inorganic emissions to air]	Mass	8,62E-10	kg	(Literature)
Antimony (Sb122) [Radioactive emissions to fresh water]	Activity	4,89E-06	Bq	(No statement)
Antimony (Sb124) [Radioactive emissions to air]	Activity	4,13E-04	Bq	(Literature)
Antimony (Sb124) [Radioactive emissions to fresh water]	Activity	1,01E-01	Bq	(Literature)
Antimony (Sb125) [Radioactive emissions to air]	Activity	1,27E-07	Bq	(No statement)
Antimony (Sb125) [Radioactive emissions to fresh water]	Activity	1,39E-01	Bq	(Literature)
Antimony [Fresh water]	Mass	3,89E-04	kg	(No statement)
Antimony [Heavy metals to agricultural soil]	Mass	1,85E-12	kg	(No statement)
Antimony [Heavy metals to air]	Mass	2,10E-06	kg	(Calculated)
Antimony [Heavy metals to fresh water]	Mass	2,11E-04	kg	(No statement)

Appendix 2.7
LCI Data - Web based newspaper with print-out, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Argon (Ar41) [Radioactive emissions to air]	Activity	1,64E+02	Bq	(Literature)
Aromatic hydrocarbons (unspecified) [Group NMVOC to air]	Mass	6,81E-07	kg	(Calculated)
Aromatic hydrocarbons (unspecified) [Hydrocarbons to fresh water]	Mass	4,47E-06	kg	Literature
Aromatic hydrocarbons (unspecified) [Hydrocarbons to sea water]	Mass	2,36E-06	kg	(No statement)
Arsenic [Fresh water]	Mass	8,11E-07	kg	(No statement)
Arsenic [Heavy metals to agricultural soil]	Mass	2,38E-08	kg	(No statement)
Arsenic [Heavy metals to air]	Mass	2,73E-06	kg	(Literature)
Arsenic [Heavy metals to fresh water]	Mass	2,60E-06	kg	(Literature)
Arsenic [Heavy metals to industrial soil]	Mass	6,80E-07	kg	Measured
Arsenic [Heavy metals to sea water]	Mass	5,01E-09	kg	(No statement)
Arsenic trioxide [Heavy metals to air]	Mass	2,05E-11	kg	Measured
Ash [Stockpile goods]	Mass	-1,27E-05	kg	Calculated
Atrazine [Pesticides to agricultural soil]	Mass	1,26E-11	kg	(No statement)
Barium (Ba140) [Radioactive emissions to air]	Activity	8,23E-06	Bq	(No statement)
Barium (Ba140) [Radioactive emissions to fresh water]	Activity	2,14E-05	Bq	(No statement)
Barium [Fresh water]	Mass	3,79E-05	kg	(No statement)
Barium [Inorganic emissions to agricultural soil]	Mass	1,49E-10	kg	(No statement)
Barium [Inorganic emissions to air]	Mass	9,59E-06	kg	(Literature)
Barium [Inorganic emissions to fresh water]	Mass	1,00E-05	kg	(Literature)
Barium [Inorganic emissions to industrial soil]	Mass	3,69E-06	kg	(No statement)
Barium [Inorganic emissions to sea water]	Mass	3,57E-06	kg	(No statement)
Barytes [ocean]	Mass	1,22E-04	kg	(No statement)
Battery Li-Ion (E-Paper) [Flows]	Mass	1,22E-10	kg	(No statement)
Bentazone [Pesticides to agricultural soil]	Mass	5,33E-10	kg	(No statement)
Benzaldehyde [Group NMVOC to air]	Mass	5,00E-11	kg	(No statement)
Benzene [Group NMVOC to air]	Mass	5,21E-05	kg	(Literature)
Benzene [Hydrocarbons to fresh water]	Mass	2,19E-06	kg	(Literature)
Benzene [Hydrocarbons to sea water]	Mass	3,41E-07	kg	(No statement)
Benzo{a}pyrene [Group PAH to air]	Mass	1,58E-07	kg	(Literature)
Beryllium [Fresh water]	Mass	1,63E-07	kg	(No statement)
Beryllium [Inorganic emissions to air]	Mass	7,31E-08	kg	(Literature)
Beryllium [Inorganic emissions to fresh water]	Mass	3,65E-09	kg	(Literature)
Biological oxygen demand (BOD) [Analytical measures to fresh water]	Mass	3,24E-03	kg	(Literature)
Biological oxygen demand (BOD) [Analytical measures to sea water]	Mass	4,37E-04	kg	(No statement)
Biological oxygen demand, BSB5 (Ecoinvent) [Fresh water]	Mass	1,00E-03	kg	(No statement)
Boiler ash (unspecified) [Waste for recovery]	Mass	-5,71E-05	kg	Calculated
Boron [Fresh water]	Mass	2,96E-05	kg	(No statement)
Boron [Inorganic emissions to air]	Mass	9,85E-08	kg	(No statement)
Boron [Inorganic emissions to fresh water]	Mass	4,71E-06	kg	(Literature)
Boron [Inorganic emissions to sea water]	Mass	3,37E-08	kg	(No statement)
Boron compounds (unspecified) [Inorganic emissions to air]	Mass	3,97E-05	kg	(Calculated)
Bromate [Inorganic emissions to fresh water]	Mass	3,15E-07	kg	(No statement)
Bromine [Fresh water]	Mass	1,51E-04	kg	(No statement)
Bromine [Inorganic emissions to air]	Mass	2,88E-05	kg	(Calculated)
Bromine [Inorganic emissions to fresh water]	Mass	7,18E-04	kg	(No statement)
Bromine [Inorganic emissions to sea water]	Mass	2,86E-06	kg	(No statement)
Butadiene [Group NMVOC to air]	Mass	1,77E-13	kg	(No statement)

Appendix 2.7
LCI Data - Web based newspaper with print-out, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Butane (n-butane) [Group NMVOC to air]	Mass	3,95E-06	kg	(Measured)
Butane [Group NMVOC to air]	Mass	3,76E-05	kg	(Literature)
Butene [Group NMVOC to air]	Mass	2,68E-07	kg	(No statement)
Butene [Hydrocarbons to fresh water]	Mass	1,95E-09	kg	(No statement)
Cadmium [Fresh water]	Mass	3,22E-07	kg	(No statement)
Cadmium [Heavy metals to agricultural soil]	Mass	4,81E-08	kg	(No statement)
Cadmium [Heavy metals to air]	Mass	6,25E-07	kg	(Literature)
Cadmium [Heavy metals to fresh water]	Mass	1,99E-06	kg	(Literature)
Cadmium [Heavy metals to industrial soil]	Mass	1,10E-07	kg	Measured
Cadmium [Heavy metals to sea water]	Mass	1,44E-09	kg	(No statement)
CaF2 (low radioactice) [Radioactive waste]	Mass	1,13E-06	kg	(Literature)
Calcium [Fresh water]	Mass	9,82E-03	kg	(No statement)
Calcium [Inorganic emissions to fresh water]	Mass	6,61E-03	kg	(Literature)
Calcium [Inorganic emissions to sea water]	Mass	1,36E-04	kg	(No statement)
Carbetamide [Pesticides to agricultural soil]	Mass	1,93E-10	kg	(No statement)
Carbon (C14) [Radioactive emissions to air]	Activity	4,01E+02	Bq	(Literature)
Carbon (C14) [Radioactive emissions to fresh water]	Activity	2,97E+00	Bq	(Estimated)
Carbon (unspecified) [Organic emissions to agricultural soil]	Mass	1,94E-04	kg	(No statement)
Carbon (unspecified) [Organic emissions to industrial soil]	Mass	2,22E-05	kg	(No statement)
Carbon dioxide (biotic) [Air]	Mass	3,15E+00	kg	(No statement)
Carbon dioxide [Inorganic emissions to air]	Mass	1,20E+01	kg	(Literature)
Carbon disulphide [Inorganic emissions to air]	Mass	1,40E-05	kg	(No statement)
Carbon monoxide (biotic) [Air]	Mass	3,17E-04	kg	(No statement)
Carbon monoxide [Inorganic emissions to air]	Mass	1,11E-02	kg	(Literature)
Carbon tetrachloride (tetrachloromethane) [Halogenated organic emissions to air]	Mass	2,09E-09	kg	(No statement)
Carbonate [Inorganic emissions to fresh water]	Mass	3,48E-05	kg	(Literature)
Cerium (Ce141) [Radioactive emissions to air]	Activity	2,00E-06	Bq	(No statement)
Cerium (Ce141) [Radioactive emissions to fresh water]	Activity	8,56E-06	Bq	(No statement)
Cerium (Ce144) [Radioactive emissions to fresh water]	Activity	2,61E-06	Bq	(No statement)
Cesium (Cs134) [Radioactive emissions to air]	Activity	1,60E-02	Bq	(Literature)
Cesium (Cs134) [Radioactive emissions to fresh water]	Activity	3,99E+00	Bq	(Literature)
Cesium (Cs136) [Radioactive emissions to fresh water]	Activity	1,52E-06	Bq	(No statement)
Cesium (Cs137) [Radioactive emissions to air]	Activity	3,57E-02	Bq	(Literature)
Cesium (Cs137) [Radioactive emissions to fresh water]	Activity	2,73E+01	Bq	(Literature)
Cesium (Cs137) [Radioactive emissions to sea water]	Activity	5,54E+01	Bq	(No statement)
Cesium [Heavy metals to fresh water]	Mass	8,50E-09	kg	(No statement)
Cesium [Heavy metals to sea water]	Mass	4,09E-09	kg	(No statement)
Chemical oxygen demand (COD) [Analytical measures to fresh water]	Mass	4,56E-02	kg	(Literature)
Chemical oxygen demand (COD) [Analytical measures to sea water]	Mass	4,40E-04	kg	Estimated
Chemical oxygen demand, CSB (Ecoinvent) [Fresh water]	Mass	3,06E-03	kg	(No statement)
Chlorate [Inorganic emissions to fresh water]	Mass	2,72E-06	kg	(No statement)
Chloride (unspecified) [Inorganic emissions to air]	Mass	1,41E-05	kg	(Measured)
Chloride [Fresh water]	Mass	6,64E-05	kg	(No statement)
Chloride [Inorganic emissions to fresh water]	Mass	1,00E-01	kg	(Literature)
Chloride [Inorganic emissions to sea water]	Mass	2,05E-03	kg	(No statement)
Chlorinated hydrocarbons (unspecified) [Halogenated organic emissions to fresh water]	Mass	2,44E-07	kg	(Estimated)
Chlorine (dissolved) [Inorganic emissions to fresh water]	Mass	4,84E-05	kg	(Literature)

Appendix 2.7
LCI Data - Web based newspaper with print-out, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Chlorine [Inorganic emissions to agricultural soil]	Mass	1,05E-05	kg	(No statement)
Chlorine [Inorganic emissions to air]	Mass	4,89E-06	kg	(Literature)
Chlorine [Inorganic emissions to industrial soil]	Mass	1,48E-04	kg	(No statement)
Chloromethane (methyl chloride) [Halogenated organic emissions to air]	Mass	1,09E-08	kg	Estimated
Chloromethane (methyl chloride) [Halogenated organic emissions to fresh water]	Mass	4,75E-07	kg	(Literature)
Chlorothalonil [Pesticides to agricultural soil]	Mass	4,81E-09	kg	(No statement)
Chlorous dissolvent [Halogenated organic emissions to fresh water]	Mass	1,42E-08	kg	(No statement)
Chlorous dissolvent [Halogenated organic emissions to sea water]	Mass	1,24E-15	kg	(No statement)
Chromium (Cr51) [Radioactive emissions to air]	Activity	1,28E-07	Bq	(No statement)
Chromium (Cr51) [Radioactive emissions to fresh water]	Activity	1,07E-01	Bq	(No statement)
Chromium (unspecified) [Heavy metals to agricultural soil]	Mass	6,98E-07	kg	(No statement)
Chromium (unspecified) [Heavy metals to air]	Mass	3,52E-06	kg	(Literature)
Chromium (unspecified) [Heavy metals to fresh water]	Mass	1,37E-07	kg	(Literature)
Chromium (unspecified) [Heavy metals to industrial soil]	Mass	4,10E-08	kg	(No statement)
Chromium +III [Heavy metals to fresh water]	Mass	8,63E-08	kg	(Literature)
Chromium +VI [Fresh water]	Mass	4,49E-06	kg	(No statement)
Chromium +VI [Heavy metals to air]	Mass	5,61E-08	kg	(No statement)
Chromium +VI [Heavy metals to fresh water]	Mass	2,48E-06	kg	(No statement)
Chromium +VI [Heavy metals to industrial soil]	Mass	6,95E-06	kg	(No statement)
Cobalt (Co57) [Radioactive emissions to fresh water]	Activity	4,82E-05	Bq	(No statement)
Cobalt (Co58) [Radioactive emissions to air]	Activity	1,07E-03	Bq	(Literature)
Cobalt (Co58) [Radioactive emissions to fresh water]	Activity	8,71E-01	Bq	(Literature)
Cobalt (Co60) [Radioactive emissions to air]	Activity	1,20E-02	Bq	(Literature)
Cobalt (Co60) [Radioactive emissions to fresh water]	Activity	1,32E+01	Bq	(Literature)
Cobalt [Fresh water]	Mass	6,77E-06	kg	(No statement)
Cobalt [Heavy metals to agricultural soil]	Mass	6,63E-08	kg	(No statement)
Cobalt [Heavy metals to air]	Mass	7,29E-07	kg	(Literature)
Cobalt [Heavy metals to fresh water]	Mass	4,13E-08	kg	(No statement)
Cobalt [Heavy metals to sea water]	Mass	1,67E-09	kg	(No statement)
Copper [Fresh water]	Mass	3,33E-04	kg	(No statement)
Copper [Heavy metals to agricultural soil]	Mass	7,83E-07	kg	(No statement)
Copper [Heavy metals to air]	Mass	1,24E-05	kg	(Literature)
Copper [Heavy metals to fresh water]	Mass	5,71E-06	kg	(Literature)
Copper [Heavy metals to industrial soil]	Mass	6,87E-06	kg	Measured
Copper [Heavy metals to sea water]	Mass	8,60E-09	kg	(No statement)
Cumene (isopropylbenzene) [Group NMVOC to air]	Mass	1,29E-07	kg	(No statement)
Cumene (isopropylbenzene) [Organic emissions to fresh water]	Mass	3,11E-07	kg	(No statement)
Curium (Cm alpha) [Radioactive emissions to fresh water]	Activity	7,61E-02	Bq	Calculated
Cyanide (unspecified) [Inorganic emissions to air]	Mass	1,61E-06	kg	(No statement)
Cyanide [Inorganic emissions to fresh water]	Mass	2,51E-06	kg	(Literature)
Cyanide [Inorganic emissions to sea water]	Mass	1,46E-08	kg	(No statement)
Cycloalkanes (unspec.) [Group NMVOC to air]	Mass	2,25E-09	kg	(No statement)
Cypermethrin [Pesticides to agricultural soil]	Mass	4,30E-12	kg	(No statement)
Detergent (unspecified) [Other emissions to fresh water]	Mass	4,31E-10	kg	(Literature)
Dichloroethane (ethylene dichloride) [Halogenated organic emissions to air]	Mass	3,38E-08	kg	(No statement)
Dichloroethane (ethylene dichloride) [Halogenated organic emissions to fresh water]	Mass	1,64E-08	kg	(No statement)

Appendix 2.7
LCI Data - Web based newspaper with print-out, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Dichloromethane (methylene chloride) [Halogenated organic emissions to air]	Mass	1,71E-05	kg	Calculated
Dichloromethane (methylene chloride) [Halogenated organic emissions to fresh water]	Mass	1,87E-07	kg	(No statement)
Dichloropropane [Halogenated organic emissions to fresh water]	Mass	0,00E+00	kg	Estimated
Dichromate [river]	Mass	1,82E-07	kg	(No statement)
Diethyl amine (ethylene ethane amine) [Group NMVOC to air]	Mass	1,91E-10	kg	Measured
Different pollutants [Other emissions to agricultural soil]	Mass	1,57E-03	kg	(No statement)
Different pollutants [Other emissions to industrial soil]	Mass	5,52E-05	kg	(No statement)
Dinoseb [Pesticides to agricultural soil]	Mass	1,31E-09	kg	(No statement)
Dissolved organic carbon, DOC (Ecoinvent) [Fresh water]	Mass	1,25E-03	kg	(No statement)
Dust (> PM10) [Particles to air]	Mass	4,28E-03	kg	(No statement)
Dust (PM2,5 - PM10) [Particles to air]	Mass	4,19E-04	kg	(No statement)
Dust (PM2.5) [Particles to air]	Mass	3,25E-03	kg	(No statement)
Dust (unspecified) [Particles to air]	Mass	6,53E-03	kg	(Literature)
Ethane [Group NMVOC to air]	Mass	6,10E-04	kg	(Literature)
Ethanol [Group NMVOC to air]	Mass	6,55E-06	kg	(Literature)
Ethene (ethylene) [Group NMVOC to air]	Mass	2,50E-06	kg	(Literature)
Ethene (ethylene) [Hydrocarbons to fresh water]	Mass	1,15E-07	kg	(No statement)
Ethine (acetylene) [Group NMVOC to air]	Mass	9,46E-08	kg	(No statement)
Ethyl benzene [Group NMVOC to air]	Mass	3,98E-05	kg	(Calculated)
Ethyl benzene [Hydrocarbons to fresh water]	Mass	4,59E-07	kg	(Literature)
Ethyl benzene [Hydrocarbons to sea water]	Mass	9,82E-08	kg	(No statement)
Ethylene oxide [Group NMVOC to air]	Mass	1,57E-09	kg	(No statement)
Ethylene oxide [Hydrocarbons to fresh water]	Mass	3,73E-11	kg	(No statement)
Ethylenediamine [Group NMVOC to air]	Mass	1,31E-12	kg	(No statement)
Ethylenediamine [Organic emissions to fresh water]	Mass	3,19E-12	kg	(No statement)
Exhaust [Other emissions to air]	Mass	2,90E+01	kg	(Calculated)
Fatty acids (calculated as total carbon) [Hydrocarbons to fresh water]	Mass	3,13E-05	kg	(No statement)
Fatty acids (calculated as total carbon) [Hydrocarbons to sea water]	Mass	2,41E-05	kg	(No statement)
Fenpiclonil [Pesticides to agricultural soil]	Mass	2,25E-10	kg	(No statement)
Fluoride (unspecified) [Inorganic emissions to air]	Mass	1,28E-06	kg	(Literature)
Fluoride [Fresh water]	Mass	2,33E-05	kg	(No statement)
Fluoride [Inorganic emissions to fresh water]	Mass	4,20E-04	kg	(Literature)
Fluoride [Inorganic emissions to industrial soil]	Mass	5,07E-06	kg	(No statement)
Fluoride [Inorganic emissions to sea water]	Mass	5,12E-07	kg	(No statement)
Fluorides [Inorganic emissions to air]	Mass	1,03E-09	kg	(Estimated)
Fluorine [Inorganic emissions to air]	Mass	1,38E-06	kg	(Literature)
Fluorine [Inorganic emissions to fresh water]	Mass	7,40E-06	kg	(Measured)
Fly ash (unspecified) [Waste for recovery]	Mass	-2,22E-04	kg	Calculated
Formaldehyde (methanal) [Group NMVOC to air]	Mass	3,27E-05	kg	(Literature)
Formaldehyde (methanal) [Hydrocarbons to fresh water]	Mass	3,62E-08	kg	Literature
Glutaraldehyde [Hydrocarbons to sea water]	Mass	1,51E-08	kg	(No statement)
Glyphosate [Pesticides to agricultural soil]	Mass	2,91E-09	kg	(No statement)
Glyphosate [Pesticides to industrial soil]	Mass	1,71E-08	kg	(No statement)
Graphites [Particles to air]	Mass	0,00E+00	kg	Estimated
Gypsum (FDI) [Waste for recovery]	Mass	3,15E-03	kg	(Measured)
Gypsum [Waste for recovery]	Mass	1,84E-04	kg	(Estimated)
Halogenated hydrocarbons (unspecified) [Halogenated organic emissions to air]	Mass	-4,54E-12	kg	Literature

Appendix 2.7
LCI Data - Web based newspaper with print-out, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Halon (1211) [Halogenated organic emissions to air]	Mass	2,71E-08	kg	(No statement)
Halon (1301) [Halogenated organic emissions to air]	Mass	2,72E-08	kg	(Literature)
Hazardous waste (unspec.) [Hazardous waste]	Mass	1,23E-01	kg	(Literature)
Heat from natural gas [Flows]	Energy	1,54E-11	MJ	(No statement)
Heat from oil [Flows]	Energy	1,39E-10	MJ	(No statement)
Heat from waste [Flows]	Energy	1,65E-10	MJ	(No statement)
Heavy metals to water (unspecified) [Heavy metals to fresh water]	Mass	2,98E-07	kg	(Measured)
Helium [Inorganic emissions to air]	Mass	1,19E-05	kg	(Literature)
Heptane (isomers) [Group NMVOC to air]	Mass	2,67E-06	kg	(No statement)
Hexachlorobenzene (Perchlorobenzene) [Halogenated organic emissions to air]	Mass	3,16E-10	kg	(No statement)
Hexaflourosilicates [Air]	Mass	4,69E-08	kg	(No statement)
Hexaflourosilicates [Sweet-]	Mass	8,44E-08	kg	(No statement)
Hexane (isomers) [Group NMVOC to air]	Mass	2,18E-05	kg	(Literature)
Highly radioactive waste [Radioactive waste]	Mass	1,65E-05	kg	(Calculated)
Highly-active fission product solution [Radioactive waste]	Mass	1,23E-07	kg	(Estimated)
Housing (E-Paper) [Flows]	Mass	7,31E-06	kg	(No statement)
Hydrocarbons (unspecified) [Hydrocarbons to fresh water]	Mass	9,22E-06	kg	(Literature)
Hydrocarbons (unspecified) [Hydrocarbons to sea water]	Mass	2,29E-06	kg	(No statement)
Hydrocarbons, aromatic [Group NMVOC to air]	Mass	8,53E-07	kg	(No statement)
Hydrocarbons, chloro-/fluoro- [Halogenated organic emissions to air]	Mass	2,07E-08	kg	(No statement)
Hydrocarbons, halogenated [Halogenated organic emissions to air]	Mass	6,82E-09	kg	(No statement)
Hydrogen (H3) [Radioactive emissions to air]	Activity	2,10E+03	Bq	(Literature)
Hydrogen (H3) [Radioactive emissions to fresh water]	Activity	9,98E+04	Bq	(Literature)
Hydrogen (H3) [Radioactive emissions to sea water]	Activity	1,15E+05	Bq	(No statement)
Hydrogen [Inorganic emissions to air]	Mass	8,88E-05	kg	(Measured)
Hydrogen arsenic (arsine) [Heavy metals to air]	Mass	1,70E-09	kg	Measured
Hydrogen chloride [Inorganic emissions to air]	Mass	9,50E-04	kg	(Literature)
Hydrogen chloride [Inorganic emissions to fresh water]	Mass	3,78E-12	kg	Estimated
Hydrogen cyanide (prussic acid) [Inorganic emissions to air]	Mass	1,15E-07	kg	(Calculated)
Hydrogen fluoride (hydrofluoric acid) [Inorganic emissions to fresh water]	Mass	5,51E-09	kg	Measured
Hydrogen fluoride [Inorganic emissions to air]	Mass	2,82E-04	kg	(Literature)
Hydrogen peroxide [Sweet-]	Mass	1,42E-09	kg	(No statement)
Hydrogen sulphide [Fresh water]	Mass	9,21E-06	kg	(No statement)
Hydrogen sulphide [Inorganic emissions to air]	Mass	2,14E-04	kg	(Literature)
Hydrogen sulphide [Inorganic emissions to fresh water]	Mass	4,42E-08	kg	(No statement)
Hydroxide [Inorganic emissions to fresh water]	Mass	1,74E-05	kg	Estimated
Hypochlorite [Inorganic emissions to fresh water]	Mass	1,79E-06	kg	(No statement)
Hypochlorite [Inorganic emissions to sea water]	Mass	2,01E-06	kg	(No statement)
Iliad Module (E-Paper) [Flows]	Mass	1,44E-11	kg	(No statement)
Incineration good [Waste for disposal]	Mass	2,79E-04	kg	Literature
Industrial waste for municipal disposal [Consumer waste]	Mass	2,88E-02	kg	(Literature)
inert chemical waste [Consumer waste]	Mass	4,78E-04	kg	(Literature)
Inert gases [Radioactive emissions to air]	Activity	2,86E+06	Bq	(No statement)
Inorganic salts and acids (unspecified) [Inorganic emissions to fresh water]	Mass	-4,81E-07	kg	Literature
Iodide [Fresh water]	Mass	2,51E-12	kg	(No statement)
Iodide [Inorganic emissions to fresh water]	Mass	9,24E-07	kg	(No statement)

Appendix 2.7
LCI Data - Web based newspaper with print-out, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Iodide [Inorganic emissions to sea water]	Mass	4,09E-07	kg	(No statement)
Iodine (I129) [Radioactive emissions to air]	Activity	4,22E-01	Bq	Calculated
Iodine (I129) [Radioactive emissions to fresh water]	Activity	8,51E+00	Bq	(Estimated)
Iodine (I131) [Radioactive emissions to air]	Activity	3,20E-01	Bq	(Literature)
Iodine (I131) [Radioactive emissions to fresh water]	Activity	2,03E-02	Bq	(Literature)
Iodine (I133) [Radioactive emissions to air]	Activity	9,84E-06	Bq	(No statement)
Iodine (I133) [Radioactive emissions to fresh water]	Activity	1,34E-05	Bq	(No statement)
Iodine [Inorganic emissions to air]	Mass	5,41E-07	kg	(No statement)
Iron (Fe59) [Radioactive emissions to fresh water]	Activity	3,70E-06	Bq	(No statement)
Iron [Fresh water]	Mass	1,07E-03	kg	(No statement)
Iron [Heavy metals to agricultural soil]	Mass	1,92E-04	kg	(No statement)
Iron [Heavy metals to air]	Mass	3,78E-06	kg	(Literature)
Iron [Heavy metals to fresh water]	Mass	2,43E-03	kg	(Literature)
Iron [Heavy metals to industrial soil]	Mass	4,84E-05	kg	(No statement)
Iron [Heavy metals to sea water]	Mass	2,23E-07	kg	(No statement)
Isocyanide acid [Air]	Mass	1,27E-06	kg	(No statement)
Jacket and body material [Radioactive waste]	Mass	1,66E-08	kg	(Calculated)
Krypton (Kr85) [Radioactive emissions to air]	Activity	2,20E+06	Bq	(Literature)
Krypton (Kr85m) [Radioactive emissions to air]	Activity	3,76E+00	Bq	(Literature)
Krypton (Kr87) [Radioactive emissions to air]	Activity	4,97E-02	Bq	(No statement)
Krypton (Kr88) [Radioactive emissions to air]	Activity	5,31E-02	Bq	(No statement)
Krypton (Kr89) [Radioactive emissions to air]	Activity	1,63E-02	Bq	(No statement)
Lanthanides [Heavy metals to air]	Mass	2,75E-09	kg	(Estimated)
Lanthanum (La140) [Radioactive emissions to fresh water]	Activity	2,28E-05	Bq	(No statement)
Lanthanum (La141) [Radioactive emissions to air]	Activity	7,04E-07	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to air]	Activity	3,58E-01	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to fresh water]	Activity	4,79E-01	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to sea water]	Activity	2,39E-02	Bq	(No statement)
Lead [Fresh water]	Mass	3,14E-06	kg	(No statement)
Lead [Heavy metals to agricultural soil]	Mass	2,82E-07	kg	(No statement)
Lead [Heavy metals to air]	Mass	1,25E-05	kg	(Literature)
Lead [Heavy metals to fresh water]	Mass	1,70E-05	kg	(Literature)
Lead [Heavy metals to industrial soil]	Mass	4,85E-06	kg	Measured
Lead [Heavy metals to sea water]	Mass	3,86E-08	kg	(No statement)
Linuron [Pesticides to agricultural soil]	Mass	8,09E-09	kg	(No statement)
Liquid hazardous waste [Hazardous waste]	Mass	2,74E-06	kg	(Estimated)
Liquid waste [Consumer waste]	Mass	2,16E+04	kg	(Calculated)
Magnesium [Fresh water]	Mass	1,01E-03	kg	(No statement)
Magnesium [Inorganic emissions to fresh water]	Mass	3,19E-04	kg	(Literature)
Magnesium [Inorganic emissions to sea water]	Mass	2,26E-05	kg	(No statement)
Magnesium chloride [Inorganic emissions to fresh water]	Mass	1,50E-09	kg	(No statement)
Mancozeb [Pesticides to agricultural soil]	Mass	6,26E-09	kg	(No statement)
Manganese (Mn54) [Radioactive emissions to air]	Activity	6,55E-08	Bq	(No statement)
Manganese (Mn54) [Radioactive emissions to fresh water]	Activity	2,00E+00	Bq	(Literature)
Manganese [Fresh water]	Mass	2,05E-04	kg	(No statement)
Manganese [Heavy metals to agricultural soil]	Mass	6,62E-05	kg	(No statement)
Manganese [Heavy metals to air]	Mass	6,33E-06	kg	(Calculated)
Manganese [Heavy metals to fresh water]	Mass	1,93E-05	kg	(Literature)
Manganese [Heavy metals to industrial soil]	Mass	2,95E-07	kg	(No statement)
Manganese [Heavy metals to sea water]	Mass	1,81E-07	kg	(No statement)
Medium and low radioactive liquid waste [Radioactive	Mass	1,72E-07	kg	(Estimated)

Appendix 2.7
LCI Data - Web based newspaper with print-out, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
waste]				
Medium and low radioactive wastes [Radioactive waste]	Mass	1,96E-05	kg	(Literature)
Mercaptan (unspecified) [Group NMVOC to air]	Mass	4,31E-10	kg	(Literature)
Mercury [Fresh water]	Mass	1,86E-08	kg	(No statement)
Mercury [Heavy metals to agricultural soil]	Mass	1,55E-09	kg	(No statement)
Mercury [Heavy metals to air]	Mass	3,07E-07	kg	(Literature)
Mercury [Heavy metals to fresh water]	Mass	5,87E-08	kg	(Literature)
Mercury [Heavy metals to industrial soil]	Mass	2,74E-08	kg	Measured
Mercury [Heavy metals to sea water]	Mass	2,21E-10	kg	(No statement)
Metal ions (unspecific) [Fresh water]	Mass	2,29E-04	kg	(No statement)
Metal ions (unspecific) [Inorganic emissions to fresh water]	Mass	2,74E-05	kg	(Calculated)
Metaldehyde [Organic emissions to agricultural soil]	Mass	3,73E-11	kg	(No statement)
Metals (unspecified) [Inorganic emissions to fresh water]	Mass	1,35E-15	kg	Literature
Metals (unspecified) [Particles to air]	Mass	-1,30E-07	kg	(Estimated)
Metals (unspecified) [Particles to fresh water]	Mass	1,09E-06	kg	(Literature)
Methacrylate [Group NMVOC to air]	Mass	1,50E-07	kg	Calculated
Methane (biotic) [Air]	Mass	2,34E-04	kg	(No statement)
Methane [Organic emissions to air (group VOC)]	Mass	3,28E-02	kg	(Literature)
Methanol [Group NMVOC to air]	Mass	6,90E-06	kg	(Literature)
Methanol [Hydrocarbons to fresh water]	Mass	3,78E-05	kg	(Measured)
Methanol [Hydrocarbons to sea water]	Mass	3,17E-08	kg	(No statement)
Methanol [Organic intermediate products]	Mass	8,06E-10	kg	Literature
Methyl methacrylate (MMA) [Group NMVOC to air]	Mass	4,13E-06	kg	Calculated
Methyl tert-butylether [Group NMVOC to air]	Mass	6,22E-09	kg	(No statement)
Methyl tert-butylether [Hydrocarbons to fresh water]	Mass	9,61E-11	kg	(No statement)
Methyl tert-butylether [Hydrocarbons to sea water]	Mass	2,67E-08	kg	(No statement)
Metolachlor [Pesticides to agricultural soil]	Mass	5,85E-08	kg	(No statement)
Metribuzin [Pesticides to agricultural soil]	Mass	2,20E-10	kg	(No statement)
Mineral waste [Consumer waste]	Mass	7,23E-07	kg	(Estimated)
Molybdenum (Mo99) [Radioactive emissions to fresh water]	Activity	7,86E-06	Bq	(No statement)
Molybdenum [Fresh water]	Mass	2,42E-07	kg	(No statement)
Molybdenum [Heavy metals to agricultural soil]	Mass	1,63E-08	kg	(No statement)
Molybdenum [Heavy metals to air]	Mass	5,13E-08	kg	(Literature)
Molybdenum [Heavy metals to fresh water]	Mass	3,62E-06	kg	(Estimated)
Molybdenum [Heavy metals to sea water]	Mass	8,42E-10	kg	(No statement)
Monoethanolamine [Group NMVOC to air]	Mass	2,54E-08	kg	(No statement)
Municipal waste [Consumer waste]	Mass	6,53E-04	kg	(Calculated)
Napropamide [Pesticides to agricultural soil]	Mass	6,60E-11	kg	(No statement)
Neutral salts [Inorganic emissions to fresh water]	Mass	-1,53E-07	kg	Calculated
Nickel [Fresh water]	Mass	9,73E-05	kg	(No statement)
Nickel [Heavy metals to agricultural soil]	Mass	2,05E-07	kg	(No statement)
Nickel [Heavy metals to air]	Mass	8,44E-06	kg	(Literature)
Nickel [Heavy metals to fresh water]	Mass	1,92E-06	kg	(Literature)
Nickel [Heavy metals to industrial soil]	Mass	3,66E-09	kg	(No statement)
Nickel [Heavy metals to sea water]	Mass	3,97E-09	kg	(No statement)
Niobium (Nb95) [Radioactive emissions to air]	Activity	2,28E-02	Bq	(No statement)
Nitrate [Fresh water]	Mass	6,17E-05	kg	(No statement)
Nitrate [Inorganic emissions to air]	Mass	8,35E-09	kg	(No statement)
Nitrate [Inorganic emissions to fresh water]	Mass	1,21E-03	kg	(Literature)
Nitrate [Inorganic emissions to sea water]	Mass	3,68E-05	kg	(No statement)
Nitrite [Fresh water]	Mass	2,67E-08	kg	(No statement)

Appendix 2.7
LCI Data - Web based newspaper with print-out, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Nitrite [Inorganic emissions to fresh water]	Mass	1,46E-05	kg	(No statement)
Nitrite [Inorganic emissions to sea water]	Mass	7,50E-07	kg	(No statement)
Nitrogen [Inorganic emissions to fresh water]	Mass	5,80E-05	kg	(Estimated)
Nitrogen [Inorganic emissions to sea water]	Mass	2,00E-08	kg	(No statement)
Nitrogen organic bounded [Fresh water]	Mass	8,01E-07	kg	(No statement)
Nitrogen organic bounded [Inorganic emissions to fresh water]	Mass	4,11E-06	kg	Literature
Nitrogen organic bounded [Inorganic emissions to sea water]	Mass	1,35E-06	kg	(No statement)
Nitrogen oxides [Inorganic emissions to air]	Mass	3,43E-02	kg	(Literature)
Nitrous oxide (laughing gas) [Inorganic emissions to air]	Mass	7,10E-04	kg	(Literature)
NMVOC (unspecified) [Group NMVOC to air]	Mass	4,41E-03	kg	(Literature)
non used primary energy from water power [Other emissions to fresh water]	Energy ren.	1,07E+00	MJ	(Calculated)
non used primary energy from wind power [Other emissions to air]	Energy ren.	6,23E-02	MJ	(Measured)
Oil (unspecified) [Hydrocarbons to fresh water]	Mass	7,36E-04	kg	(Literature)
Oil (unspecified) [Hydrocarbons to sea water]	Mass	1,35E-04	kg	(No statement)
Oil (unspecified) [Organic emissions to agricultural soil]	Mass	8,80E-04	kg	(No statement)
Oil (unspecified) [Organic emissions to industrial soil]	Mass	4,37E-06	kg	Measured
Orbencarb [Pesticides to agricultural soil]	Mass	1,19E-09	kg	(No statement)
Organic chlorine compounds (unspecified) [Organic emissions to fresh water]	Mass	4,31E-10	kg	(Literature)
Organic chlorine compounds [Organic emissions to air (group VOC)]	Mass	4,31E-10	kg	(Literature)
Organic compounds (dissolved) [Organic emissions to fresh water]	Mass	1,22E-07	kg	Calculated
Organic compounds (unspecified) [Organic emissions to fresh water]	Mass	1,08E-14	kg	Literature
Organic waste [Consumer waste]	Mass	3,28E-09	kg	Literature
Overburden [Stockpile goods]	Mass	3,55E+00	kg	(Calculated)
Ozone [Inorganic emissions to air]	Mass	1,72E-04	kg	(No statement)
Pentachlorobenzene [Halogenated organic emissions to air]	Mass	3,37E-10	kg	(No statement)
Pentachlorophenol (PCP) [Halogenated organic emissions to air]	Mass	4,76E-08	kg	(No statement)
Pentane (n-pentane) [Group NMVOC to air]	Mass	6,83E-05	kg	(Literature)
Personal computer [Flows]	Number of pieces	1,29E-16	pcs.	(No statement)
Phenol (hydroxy benzene) [Group NMVOC to air]	Mass	6,95E-08	kg	Literature
Phenol (hydroxy benzene) [Hydrocarbons to fresh water]	Mass	2,51E-06	kg	(Estimated)
Phenol (hydroxy benzene) [Hydrocarbons to sea water]	Mass	5,27E-07	kg	(No statement)
Phosphate [Fresh water]	Mass	5,39E-05	kg	(No statement)
Phosphate [Inorganic emissions to fresh water]	Mass	6,79E-05	kg	(Literature)
Phosphate [Inorganic emissions to sea water]	Mass	4,04E-07	kg	(No statement)
Phosphorus [Inorganic emissions to agricultural soil]	Mass	3,23E-05	kg	(No statement)
Phosphorus [Inorganic emissions to air]	Mass	7,60E-06	kg	(No statement)
Phosphorus [Inorganic emissions to fresh water]	Mass	2,72E-07	kg	(No statement)
Phosphorus [Inorganic emissions to industrial soil]	Mass	3,69E-07	kg	(No statement)
Phosphorus [Inorganic emissions to sea water]	Mass	4,69E-08	kg	(No statement)
Pirimicarb [Pesticides to agricultural soil]	Mass	5,05E-11	kg	(No statement)
Plastic (unspecified) [Waste for recovery]	Mass	1,86E-04	kg	(Literature)
Platinum [Heavy metals to air]	Mass	7,71E-15	kg	(No statement)
Plutonium (Pu alpha) [Radioactive emissions to air]	Activity	7,80E-04	Bq	(Estimated)
Plutonium (Pu alpha) [Radioactive emissions to fresh	Activity	2,47E-01	Bq	(Estimated)

Appendix 2.7
LCI Data - Web based newspaper with print-out, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
water]				
Plutonium (Pu238) [Radioactive emissions to air]	Activity	4,06E-08	Bq	(No statement)
Plutonium as residual product [Radioactive waste]	Mass	3,38E-08	kg	(Calculated)
Polonium (Po210) [Radioactive emissions to air]	Activity	5,51E-01	Bq	(No statement)
Polonium (Po210) [Radioactive emissions to fresh water]	Activity	4,79E-01	Bq	(No statement)
Polonium (Po210) [Radioactive emissions to sea water]	Activity	3,65E-02	Bq	(No statement)
Polychlorinated biphenyls (PCB unspecified) [Halogenated organic emissions to air]	Mass	3,42E-10	kg	(No statement)
Polychlorinated dibenzo-p-dioxins (2,3,7,8 - TCDD) [Halogenated organic emissions to air]	Mass	1,13E-11	kg	(Literature)
Polychlorinated dibenzo-p-dioxins (2,3,7,8 - TCDD) [Halogenated organic emissions to fresh water]	Mass	1,81E-20	kg	Estimated
Polycyclic aromatic hydrocarbons (PAH) [Group PAH to air]	Mass	7,72E-07	kg	(Literature)
Polycyclic aromatic hydrocarbons (PAH, unspec.) [Hydrocarbons to fresh water]	Mass	1,70E-06	kg	(Literature)
Polycyclic aromatic hydrocarbons (PAH, unspec.) [Hydrocarbons to sea water]	Mass	3,28E-08	kg	(No statement)
Populated PWB Iliad Module (E-Paper) [Flows]	Mass	7,08E-06	kg	(No statement)
Potassium (K40) [Radioactive emissions to air]	Activity	4,62E-02	Bq	(No statement)
Potassium (K40) [Radioactive emissions to fresh water]	Activity	6,01E-01	Bq	(No statement)
Potassium (K40) [Radioactive emissions to sea water]	Activity	2,89E-03	Bq	(No statement)
Potassium [Fresh water]	Mass	6,22E-04	kg	(No statement)
Potassium [Inorganic emissions to fresh water]	Mass	1,82E-04	kg	(Literature)
Potassium [Inorganic emissions to sea water]	Mass	1,73E-05	kg	(No statement)
Propane [Group NMVOC to air]	Mass	2,87E-04	kg	(Literature)
Propanol (iso-propanol; isopropanol) [Group NMVOC to air]	Mass	8,51E-05	kg	Estimated
Propene (propylene) [Group NMVOC to air]	Mass	4,66E-06	kg	(Calculated)
Propene [Hydrocarbons to fresh water]	Mass	1,29E-07	kg	(No statement)
Propionaldehyde [Group NMVOC to air]	Mass	5,00E-11	kg	(No statement)
Propionic acid (propane acid) [Group NMVOC to air]	Mass	2,74E-07	kg	(Literature)
Propylene oxide [Group NMVOC to air]	Mass	5,75E-09	kg	(No statement)
Propylene oxide [Hydrocarbons to fresh water]	Mass	1,38E-08	kg	(No statement)
Protactinium (Pa234m) [Radioactive emissions to air]	Activity	4,21E-02	Bq	(No statement)
Protactinium (Pa234m) [Radioactive emissions to fresh water]	Activity	7,79E-01	Bq	(No statement)
R 11 (trichlorofluoromethane) [Halogenated organic emissions to air]	Mass	3,58E-07	kg	(Estimated)
R 113 (trichlorofluoroethane) [Halogenated organic emissions to air]	Mass	0,00E+00	kg	(No statement)
R 114 (dichlorotetrafluoroethane) [Halogenated organic emissions to air]	Mass	4,49E-07	kg	(Estimated)
R 116 (hexafluoroethane) [Halogenated organic emissions to air]	Mass	1,34E-07	kg	Calculated
R 12 (dichlorodifluoromethane) [Halogenated organic emissions to air]	Mass	7,70E-08	kg	(Estimated)
R 124 (chlorotetrafluoroethane) [Halogenated organic emissions to air]	Mass	0,00E+00	kg	(No statement)
R 13 (chlorotrifluoromethane) [Halogenated organic emissions to air]	Mass	4,83E-08	kg	(Estimated)
R 134a (tetrafluoroethane) [Halogenated organic emissions to air]	Mass	1,58E-07	kg	(No statement)
R 21 (Dichlorofluoromethane) [Halogenated organic emissions to air]	Mass	3,02E-16	kg	(No statement)
R 22 (chlorodifluoromethane) [Halogenated organic	Mass	2,13E-07	kg	(Estimated)

Appendix 2.7
LCI Data - Web based newspaper with print-out, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
emissions to air]				
R 23 (trifluoromethane) [Halogenated organic emissions to air]	Mass	9,61E-14	kg	(No statement)
Radioactive emissions (general) [Radioactive emissions to air]	Activity	8,69E-02	Bq	Literature
Radioactive isotopes (unspecific) [Radioactive emissions to air]	Activity	6,80E-01	Bq	(No statement)
Radioactive isotopes (unspecific) [Radioactive emissions to fresh water]	Activity	2,89E+02	Bq	(No statement)
Radioactive tailings [Radioactive waste]	Mass	1,99E-03	kg	(Calculated)
Radium (Ra224) [Radioactive emissions to fresh water]	Activity	4,25E-01	Bq	(No statement)
Radium (Ra224) [Radioactive emissions to sea water]	Activity	2,05E-01	Bq	(No statement)
Radium (Ra226) [Radioactive emissions to air]	Activity	1,44E+00	Bq	(No statement)
Radium (Ra226) [Radioactive emissions to fresh water]	Activity	1,44E+03	Bq	(Literature)
Radium (Ra226) [Radioactive emissions to sea water]	Activity	3,54E-01	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to air]	Activity	1,86E-02	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to fresh water]	Activity	8,50E-01	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to sea water]	Activity	4,09E-01	Bq	(No statement)
Radon (Rn220) [Radioactive emissions to air]	Activity	1,76E-04	Bq	(No statement)
Radon (Rn222) [Air]	Activity	5,45E+06	Bq	(No statement)
Radon (Rn222) [Radioactive emissions to air]	Activity	1,61E+05	Bq	(Literature)
Red mud (wet) (3% NaOH) [Hazardous waste for disposal]	Mass	2,27E-03	kg	Measured
Residues for incineration [Waste for disposal]	Mass	2,92E-06	kg	(No statement)
Rolling tinder [Waste for recovery]	Mass	1,50E-03	kg	Calculated
Rubidium [Inorganic emissions to fresh water]	Mass	1,56E-07	kg	(No statement)
Ruthenium (Ru103) [Radioactive emissions to air]	Activity	1,71E-09	Bq	(No statement)
Ruthenium (Ru103) [Radioactive emissions to fresh water]	Activity	1,66E-06	Bq	(No statement)
Ruthenium (Ru106) [Radioactive emissions to fresh water]	Activity	5,74E-02	Bq	Calculated
Scandium [Fresh water]	Mass	2,25E-07	kg	(No statement)
Scandium [Inorganic emissions to air]	Mass	1,60E-09	kg	(Estimated)
Scandium [Inorganic emissions to fresh water]	Mass	5,49E-08	kg	(No statement)
Selenium [Fresh water]	Mass	2,74E-07	kg	(No statement)
Selenium [Heavy metals to air]	Mass	2,21E-06	kg	(Literature)
Selenium [Heavy metals to fresh water]	Mass	6,34E-07	kg	(Literature)
Selenium [Heavy metals to sea water]	Mass	1,26E-09	kg	(No statement)
Sewage sludge (waste water processing) [Hazardous waste]	Mass	6,50E-04	kg	Calculated
Silicium tetrafluoride [Inorganic emissions to air]	Mass	6,16E-11	kg	(No statement)
Silicon dioxide (silica) [Particles to air]	Mass	0,00E+00	kg	Estimated
Silicon dioxide (silica) [Particles to fresh water]	Mass	0,00E+00	kg	Estimated
Silver (Ag110m) [Radioactive emissions to air]	Activity	1,69E-08	Bq	(No statement)
Silver (Ag110m) [Radioactive emissions to fresh water]	Activity	4,20E-01	Bq	(Literature)
Silver [Fresh water]	Mass	7,26E-10	kg	(No statement)
Silver [Heavy metals to agricultural soil]	Mass	2,68E-11	kg	(No statement)
Silver [Heavy metals to air]	Mass	2,19E-12	kg	(No statement)
Silver [Heavy metals to fresh water]	Mass	1,71E-08	kg	(Literature)
Silver [Heavy metals to sea water]	Mass	2,45E-09	kg	(No statement)
Slag (Iron plate production) [Waste for recovery]	Mass	1,52E-02	kg	(Measured)
Slag (Mo-containing) [Waste for recovery]	Mass	8,42E-08	kg	Estimated
Slag [Hazardous waste]	Mass	1,53E-03	kg	(Literature)
Slag [Waste for recovery]	Mass	2,74E-03	kg	(Literature)

Appendix 2.7
LCI Data - Web based newspaper with print-out, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Sludge [Hazardous waste]	Mass	1,02E-02	kg	(Calculated)
Sludge from water works (6% dry matter-content) [Waste for disposal]	Mass	4,26E-08	kg	(No statement)
Sodium (Na24) [Radioactive emissions to fresh water]	Activity	5,95E-05	Bq	(No statement)
Sodium [Fresh water]	Mass	2,62E-04	kg	(No statement)
Sodium [Inorganic emissions to fresh water]	Mass	4,12E-02	kg	(Literature)
Sodium [Inorganic emissions to sea water]	Mass	1,25E-03	kg	(No statement)
Sodium chlorate [high population density]	Mass	4,50E-09	kg	(No statement)
Sodium chloride (rock salt) [Inorganic intermediate products]	Mass	5,49E-05	kg	Calculated
Sodium dichromate [high population density]	Mass	4,89E-08	kg	(No statement)
Sodium formate [high population density]	Mass	4,45E-11	kg	(No statement)
Sodium formate [Hydrocarbons to fresh water]	Mass	1,07E-10	kg	(No statement)
Sodium hypochlorite [Inorganic emissions to fresh water]	Mass	1,53E-07	kg	(Estimated)
Solder paste waste [Hazardous waste for recovery]	Mass	6,94E-05	kg	Estimated
Solids (dissolved) [Analytical measures to fresh water]	Mass	2,51E-03	kg	(Literature)
Solids (suspended) [Fresh water]	Mass	1,12E-02	kg	(No statement)
Solids (suspended) [Particles to fresh water]	Mass	4,51E-03	kg	(Estimated)
Solids (suspended) [Particles to sea water]	Mass	4,35E-04	kg	(No statement)
Spoil [Stockpile goods]	Mass	5,00E-10	kg	Calculated
Steam [Inorganic emissions to air]	Mass	6,50E+00	kg	(Estimated)
Steel works slag [Waste for recovery]	Mass	7,85E-03	kg	Calculated
Strontium (Sr89) [Radioactive emissions to fresh water]	Activity	1,81E-02	Bq	(No statement)
Strontium (Sr90) [Radioactive emissions to fresh water]	Activity	9,81E+00	Bq	(Literature)
Strontium (Sr90) [Radioactive emissions to sea water]	Activity	6,16E+00	Bq	(No statement)
Strontium [Fresh water]	Mass	2,82E-05	kg	(No statement)
Strontium [Heavy metals to agricultural soil]	Mass	4,17E-10	kg	(No statement)
Strontium [Heavy metals to fresh water]	Mass	6,51E-05	kg	(Literature)
Strontium [Heavy metals to industrial soil]	Mass	7,38E-08	kg	(No statement)
Strontium [Heavy metals to sea water]	Mass	2,46E-05	kg	(No statement)
Strontium [Inorganic emissions to air]	Mass	1,26E-07	kg	(Estimated)
Styrene [Group NMVOC to air]	Mass	6,03E-10	kg	(No statement)
Sulphate [Fresh water]	Mass	3,76E-03	kg	(No statement)
Sulphate [Inorganic emissions to fresh water]	Mass	2,13E-02	kg	(Literature)
Sulphate [Inorganic emissions to sea water]	Mass	4,80E-05	kg	(No statement)
Sulphide [Inorganic emissions to fresh water]	Mass	3,15E-07	kg	(Literature)
Sulphide [Inorganic emissions to sea water]	Mass	7,03E-08	kg	(No statement)
Sulphite [Inorganic emissions to fresh water]	Mass	1,11E-05	kg	(Literature)
Sulphur [Inorganic emissions to agricultural soil]	Mass	4,38E-05	kg	(No statement)
Sulphur [Inorganic emissions to fresh water]	Mass	2,26E-06	kg	(No statement)
Sulphur [Inorganic emissions to industrial soil]	Mass	4,43E-06	kg	(No statement)
Sulphur [Inorganic emissions to sea water]	Mass	6,06E-08	kg	(No statement)
Sulphur dioxide [Inorganic emissions to air]	Mass	7,36E-02	kg	(Literature)
Sulphur hexafluoride [Inorganic emissions to air]	Mass	1,80E-06	kg	(Literature)
Sulphuric acid [Inorganic emissions to air]	Mass	2,52E-07	kg	(Calculated)
Tailings [Stockpile goods]	Mass	1,03E+00	kg	(Literature)
Tebutam [Pesticides to agricultural soil]	Mass	1,56E-10	kg	(No statement)
Technetium (Tc99m) [Radioactive emissions to fresh water]	Activity	1,81E-04	Bq	(No statement)
Teflubenzuron [Pesticides to agricultural soil]	Mass	1,47E-11	kg	(No statement)
Tellurium (Te123m) [Radioactive emissions to fresh water]	Activity	1,48E-02	Bq	(No statement)
Tellurium (Te132) [Radioactive emissions to fresh water]	Activity	4,55E-07	Bq	(No statement)
Tetrafluoromethane [Halogenated organic emissions to	Mass	1,28E-06	kg	Measured

Appendix 2.7
LCI Data - Web based newspaper with print-out, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
air]				
Thallium [Fresh water]	Mass	4,67E-08	kg	(No statement)
Thallium [Heavy metals to air]	Mass	9,36E-09	kg	(Calculated)
Thallium [Heavy metals to fresh water]	Mass	2,11E-08	kg	(Measured)
Thorium (Th228) [Radioactive emissions to air]	Activity	4,84E-03	Bq	(No statement)
Thorium (Th228) [Radioactive emissions to fresh water]	Activity	1,70E+00	Bq	(No statement)
Thorium (Th228) [Radioactive emissions to sea water]	Activity	8,18E-01	Bq	(No statement)
Thorium (Th230) [Radioactive emissions to air]	Activity	4,68E+01	Bq	(No statement)
Thorium (Th230) [Radioactive emissions to fresh water]	Activity	1,06E+02	Bq	(No statement)
Thorium (Th232) [Radioactive emissions to air]	Activity	6,84E-03	Bq	(No statement)
Thorium (Th232) [Radioactive emissions to fresh water]	Activity	1,12E-01	Bq	(No statement)
Thorium (Th234) [Radioactive emissions to air]	Activity	4,21E-02	Bq	(No statement)
Thorium (Th234) [Radioactive emissions to fresh water]	Activity	7,79E-01	Bq	(No statement)
Tin [Fresh water]	Mass	1,76E-05	kg	(No statement)
Tin [Heavy metals to agricultural soil]	Mass	1,74E-08	kg	(No statement)
Tin [Heavy metals to air]	Mass	7,30E-07	kg	(Calculated)
Tin [Heavy metals to fresh water]	Mass	6,67E-08	kg	(Literature)
Titanium [Heavy metals to agricultural soil]	Mass	4,55E-06	kg	(No statement)
Titanium [Heavy metals to air]	Mass	7,43E-07	kg	(Estimated)
Titanium [Heavy metals to fresh water]	Mass	1,43E-06	kg	(Literature)
Titanium [Heavy metals to sea water]	Mass	7,82E-10	kg	(No statement)
Toluene (methyl benzene) [Group NMVOC to air]	Mass	3,11E-05	kg	(Literature)
Toluene (methyl benzene) [Hydrocarbons to fresh water]	Mass	2,29E-06	kg	(Literature)
Toluene (methyl benzene) [Hydrocarbons to sea water]	Mass	5,89E-07	kg	(No statement)
Top Cover (E-Paper) [Flows]	Mass	3,82E-01	kg	(No statement)
Total dissolved organic bounded carbon [Analytical measures to fresh water]	Mass	1,09E-03	kg	(Estimated)
Total dissolved organic bounded carbon [Analytical measures to sea water]	Mass	1,45E-04	kg	(No statement)
Total organic bounded carbon [Analytical measures to fresh water]	Mass	2,65E-03	kg	(Measured)
Total organic bounded carbon [Analytical measures to sea water]	Mass	1,45E-04	kg	(No statement)
Total organic carbon, TOC (Ecoinvent) [Fresh water]	Mass	1,25E-03	kg	(No statement)
Treatment residue (mineral) [Stockpile goods]	Mass	2,04E-03	kg	(Calculated)
Tributyltinoxide [Pesticides to sea water]	Mass	6,28E-08	kg	(No statement)
Trichloromethane (chloroform) [Halogenated organic emissions to air]	Mass	3,26E-09	kg	(No statement)
Trichloromethane (chloroform) [Halogenated organic emissions to fresh water]	Mass	3,02E-16	kg	(No statement)
Triethylene glycol [Hydrocarbons to sea water]	Mass	5,49E-08	kg	(No statement)
Tungsten [Fresh water]	Mass	1,67E-07	kg	(No statement)
Tungsten [Heavy metals to fresh water]	Mass	1,14E-07	kg	(No statement)
Uranium (total) [Radioactive emissions to air]	Activity	2,40E+00	Bq	(Literature)
Uranium (U234) [Radioactive emissions to air]	Activity	6,27E-01	Bq	(Literature)
Uranium (U234) [Radioactive emissions to fresh water]	Activity	9,35E-01	Bq	(No statement)
Uranium (U235) [Radioactive emissions to air]	Activity	3,04E-02	Bq	(Literature)
Uranium (U235) [Radioactive emissions to fresh water]	Activity	1,54E+00	Bq	(No statement)
Uranium (U238) [Radioactive emissions to air]	Activity	1,60E+00	Bq	(Literature)
Uranium (U238) [Radioactive emissions to fresh water]	Activity	2,59E+00	Bq	(No statement)
Uranium (U238) [Radioactive emissions to sea water]	Activity	1,23E-02	Bq	(No statement)
Uranium [Radioactive emissions to fresh water]	Activity	6,26E+01	Bq	(Literature)
Uranium depleted [Radioactive waste]	Mass	3,90E-05	kg	(Calculated)
Uranium spent as residue [Radioactive waste]	Mass	3,09E-09	kg	(Calculated)

Appendix 2.7
LCI Data - Web based newspaper with print-out, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Used air [Other emissions to air]	Mass	2,27E+00	kg	(Measured)
Used oil [Hazardous waste for recovery]	Mass	3,53E-12	kg	(Literature)
Vanadium [Fresh water]	Mass	4,08E-06	kg	(No statement)
Vanadium [Heavy metals to agricultural soil]	Mass	1,30E-07	kg	(No statement)
Vanadium [Heavy metals to air]	Mass	7,97E-06	kg	(Literature)
Vanadium [Heavy metals to fresh water]	Mass	2,07E-06	kg	(Literature)
Vanadium [Heavy metals to sea water]	Mass	2,52E-09	kg	(No statement)
Waste heat [Fresh water]	Energy	8,91E-03	MJ	(No statement)
Waste heat [Other emissions to air]	Energy (	1,76E+02	MJ	(Measured)
Waste heat [Other emissions to fresh water]	Energy	1,38E+01	MJ	(Measured)
Waste paper [Waste for recovery]	Mass	3,40E-06	kg	Measured
Waste radioactive [Radioactive waste]	Mass	3,29E-05	kg	(Literature)
Waste water [Other emissions to fresh water]	Mass	1,28E+04	kg	(Literature)
Waste water processing residue [Hazardous waste for recovery]	Mass	1,12E-01	kg	Literature
Wave solder dross [Hazardous waste for recovery]	Mass	2,72E-04	kg	Estimated
Vinyl chloride (VCM; chloroethene) [Halogenated organic emissions to air]	Mass	3,18E-07	kg	Calculated
Vinyl chloride (VCM; chloroethene) [Halogenated organic emissions to fresh water]	Mass	1,04E-09	kg	(No statement)
VOC (unspecified) [Organic emissions to air (group VOC)]	Mass	3,16E-04	kg	(Literature)
VOC [Organic emissions to fresh water]	Mass	4,93E-06	kg	(No statement)
VOC [Organic emissions to sea water]	Mass	1,43E-06	kg	(No statement)
Volatile fission products (inert gases;iodine;C14) [Radioactive waste]	Mass	1,27E-09	kg	(Estimated)
Xenon (Xe131m) [Radioactive emissions to air]	Activity	2,66E+00	Bq	(Literature)
Xenon (Xe133) [Radioactive emissions to air]	Activity	3,99E+02	Bq	(Literature)
Xenon (Xe133m) [Radioactive emissions to air]	Activity	3,70E+00	Bq	(Literature)
Xenon (Xe135) [Radioactive emissions to air]	Activity	1,44E+02	Bq	(Literature)
Xenon (Xe135m) [Radioactive emissions to air]	Activity	3,31E+01	Bq	(Literature)
Xenon (Xe137) [Radioactive emissions to air]	Activity	7,70E-02	Bq	(Literature)
Xenon (Xe138) [Radioactive emissions to air]	Activity	7,54E+00	Bq	(Literature)
Xylene (dimethyl benzene) [Group NMVOC to air]	Mass	1,89E-04	kg	(Calculated)
Xylene (isomers; dimethyl benzene) [Hydrocarbons to fresh water]	Mass	1,09E-05	kg	(Literature)
Xylene (isomers; dimethyl benzene) [Hydrocarbons to sea water]	Mass	4,87E-07	kg	(No statement)
Xylene (meta-Xylene; 1,3-Dimethylbenzene) [Group NMVOC to air]	Mass	2,99E-06	kg	(No statement)
Zinc (Zn65) [Radioactive emissions to air]	Activity	3,27E-07	Bq	(No statement)
Zinc (Zn65) [Radioactive emissions to fresh water]	Activity	8,07E-04	Bq	(No statement)
Zinc [Fresh water]	Mass	2,04E-05	kg	(No statement)
Zinc [Heavy metals to agricultural soil]	Mass	7,18E-06	kg	(No statement)
Zinc [Heavy metals to air]	Mass	3,02E-05	kg	(Literature)
Zinc [Heavy metals to fresh water]	Mass	1,15E-05	kg	(Literature)
Zinc [Heavy metals to industrial soil]	Mass	7,01E-06	kg	Measured
Zinc [Heavy metals to sea water]	Mass	6,17E-06	kg	(No statement)
Zinc sulphate [Inorganic emissions to air]	Mass	3,59E-08	kg	Measured
Zirconium (Zr) [Air]	Mass	7,99E-11	kg	(No statement)
Zirconium (Zr95) [Radioactive emissions to air]	Activity	3,20E-07	Bq	(No statement)
Zirconium (Zr95) [Radioactive emissions to fresh water]	Activity	9,34E-06	Bq	(No statement)

Appendix 2.7
LCI Data - Web based newspaper with print-out, Swedish scenario

Appendix 2.8 LCI Data – Tablet e-paper newspaper, European scenario

In the tables below the LCI data for the studied system "Tablet e-paper newspaper European scenario" are presented. The data are divided as inputs to the system and outputs from the system.

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Air [Renewable resources]	Mass	4,11E+01	kg	(Literature)
Aluminum [Non renewable elements]	Mass	7,88E-04	kg	(No statement)
Ammonium nitrate [Inorganic intermediate products]	Mass	4,24E-07	kg	Estimated
Antimonite [Non renewable resources]	Mass	1,46E-11	kg	(No statement)
Barium sulphate [Non renewable resources]	Mass	1,06E-03	kg	(No statement)
Basalt [Non renewable resources]	Mass	7,28E-05	kg	(No statement)
Bauxite [Non renewable resources]	Mass	2,90E-02	kg	(Calculated)
Bentonite [Non renewable resources]	Mass	7,32E-04	kg	(Literature)
Blast furnace dust [Organic intermediate products]	Mass	7,66E-08	kg	Calculated
Borax [Non renewable resources]	Mass	2,84E-08	kg	(No statement)
Calcium chloride [Non renewable resources]	Mass	4,62E-10	kg	Literature
Carbon dioxide [Renewable resources]	Mass	1,51E-01	kg	Literature
Catalyst [Operating materials]	Mass	3,99E-09	kg	Calculated
Chromium [Non renewable elements]	Mass	1,38E-04	kg	(No statement)
Chromium ore [Non renewable resources]	Mass	1,36E-21	kg	Calculated
Chrysotile [Non renewable resources]	Mass	2,30E-08	kg	(No statement)
Cinnabar [Non renewable resources]	Mass	2,20E-09	kg	(No statement)
Circuit material (Fe carrier) [Metals]	Mass	1,23E-07	kg	Calculated
Clay [Non renewable resources]	Mass	4,82E-03	kg	(No statement)
Cobalt [Non renewable elements]	Mass	3,66E-10	kg	(No statement)
Colemanite ore [Non renewable resources]	Mass	6,93E-03	kg	Calculated
Cooling water [Operating materials]	Mass	6,02E+01	kg	(Measured)
Copper [Non renewable elements]	Mass	4,23E-04	kg	(No statement)
Copper ore (0.14%) [Non renewable resources]	Mass	4,95E+00	kg	(Measured)
Copper ore (0.2%) [Non renewable resources]	Mass	1,44E-02	kg	Calculated
Copper ore (0.3%) [Non renewable resources]	Mass	2,12E-07	kg	Estimated
Copper ore (2%) [Non renewable resources]	Mass	1,26E-01	kg	Calculated
Copper ore (4%) [Non renewable resources]	Mass	7,88E-04	kg	Calculated
Copper scrap [Waste for recovery]	Mass	4,23E-03	kg	Estimated
Copper scrap prepared [Metals] *Not followed to the cradle*	Mass	1,10E-03	kg	Calculated
Crude oil [Crude oil (resource)]	Mass	1,71E-01	kg	(Literature)
Crude oil Algeria [Crude oil (resource)]	Mass	1,31E-02	kg	(Literature)
Crude oil Angola [Crude oil (resource)]	Mass	4,96E-03	kg	(Estimated)
Crude oil Argentina [Crude oil (resource)]	Mass	6,01E-05	kg	Literature
Crude oil Australia [Crude oil (resource)]	Mass	1,75E-03	kg	(Estimated)
Crude oil Brazil [Crude oil (resource)]	Mass	1,30E-03	kg	Literature
Crude oil Brunei [Crude oil (resource)]	Mass	3,40E-12	kg	Estimated
Crude oil Cameroon [Crude oil (resource)]	Mass	2,88E-03	kg	(Estimated)
Crude oil Canada [Crude oil (resource)]	Mass	7,24E-03	kg	(Literature)
Crude oil Central Africa [Crude oil (resource)]	Mass	8,01E-04	kg	(Calculated)
Crude oil Central America [Crude oil (resource)]	Mass	4,64E-04	kg	(Calculated)
Crude oil China [Crude oil (resource)]	Mass	3,06E-03	kg	(Calculated)
Crude oil CIS [Crude oil (resource)]	Mass	5,73E-02	kg	(Literature)

Appendix 2.8
LCI Data – Tablet e-paper newspaper, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Crude oil Colombia [Crude oil (resource)]	Mass	1,46E-06	kg	Literature
Crude oil Denmark [Crude oil (resource)]	Mass	2,86E-04	kg	(Literature)
Crude oil Egypt [Crude oil (resource)]	Mass	8,83E-03	kg	(Estimated)
Crude oil France [Crude oil (resource)]	Mass	1,85E-04	kg	(Literature)
Crude oil free wellhead [Crude oil (resource)]	Mass	-1,51E-06	kg	Literature
Crude oil Gabon [Crude oil (resource)]	Mass	4,30E-04	kg	(Estimated)
Crude oil Germany [Crude oil (resource)]	Mass	4,70E-03	kg	(Literature)
Crude oil Indonesia [Crude oil (resource)]	Mass	4,02E-03	kg	(Estimated)
Crude oil Iran [Crude oil (resource)]	Mass	3,91E-02	kg	(Estimated)
Crude oil Italy [Crude oil (resource)]	Mass	9,00E-03	kg	(Literature)
Crude oil Kuwait [Crude oil (resource)]	Mass	4,13E-03	kg	(Estimated)
Crude oil Libya [Crude oil (resource)]	Mass	6,58E-02	kg	(Literature)
Crude oil Mexico [Crude oil (resource)]	Mass	3,23E-03	kg	(Literature)
Crude oil Middle East [Crude oil (resource)]	Mass	2,03E-03	kg	(Calculated)
Crude oil Netherlands [Crude oil (resource)]	Mass	4,79E-04	kg	(Literature)
Crude oil New Zealand [Crude oil (resource)]	Mass	5,55E-05	kg	(Estimated)
Crude oil Nigeria [Crude oil (resource)]	Mass	1,45E-02	kg	(Estimated)
Crude oil North Africa [Crude oil (resource)]	Mass	1,57E-03	kg	(Calculated)
Crude oil Norway [Crude oil (resource)]	Mass	3,08E-02	kg	(Literature)
Crude oil Oman [Crude oil (resource)]	Mass	1,42E-03	kg	(Estimated)
Crude oil Qatar [Crude oil (resource)]	Mass	1,48E-03	kg	(Estimated)
Crude oil Saudi Arabia [Crude oil (resource)]	Mass	5,10E-02	kg	(Estimated)
Crude oil Tunisia [Crude oil (resource)]	Mass	4,26E-04	kg	(Literature)
Crude oil United Arab Emirates [Crude oil (resource)]	Mass	5,55E-03	kg	(Estimated)
Crude oil United Kingdom [Crude oil (resource)]	Mass	4,00E-02	kg	(Literature)
Crude oil USA [Crude oil (resource)]	Mass	4,12E-05	kg	Literature
Crude oil Venezuela [Crude oil (resource)]	Mass	9,26E-03	kg	(Literature)
Diatomite [Non renewable resources]	Mass	1,41E-10	kg	(No statement)
Dolomite [Non renewable resources]	Mass	2,39E-05	kg	(Literature)
Energy, calorific value, in organic substance [biotic]	Energy ren.	1,67E+00	MJ	(No statement)
Feldspar (aluminum silicates) [Non renewable resources]	Mass	1,82E-11	kg	(No statement)
Fluorine [Non renewable elements]	Mass	1,43E-06	kg	(No statement)
Fluorspar (calcium fluoride; fluorite) [Non renewable resources]	Mass	1,45E-03	kg	Calculated
Granite [Non renewable resources]	Mass	7,33E-08	kg	(No statement)
Gypsum (natural gypsum) [Non renewable resources]	Mass	1,42E-07	kg	(No statement)
Hard coal [Hard coal (resource)]	Mass	7,71E-01	kg	(Literature)
Hard coal Australia [Hard coal (resource)]	Mass	3,97E-02	kg	(Calculated)
Hard coal Belgium [Hard coal (resource)]	Mass	2,31E-03	kg	(Calculated)
Hard coal Brazil [Hard coal (resource)]	Mass	2,07E-04	kg	(Estimated)
Hard coal Canada [Hard coal (resource)]	Mass	1,11E-02	kg	(Calculated)
Hard coal China [Hard coal (resource)]	Mass	7,15E-02	kg	(Calculated)
Hard coal CIS [Hard coal (resource)]	Mass	1,46E-02	kg	(Calculated)
Hard coal Colombia [Hard coal (resource)]	Mass	2,31E-02	kg	(Calculated)
Hard coal Czech Republic [Hard coal (resource)]	Mass	8,14E-03	kg	(Calculated)
Hard coal France [Hard coal (resource)]	Mass	3,03E-02	kg	(Calculated)
Hard coal Germany [Hard coal (resource)]	Mass	2,39E-01	kg	(Calculated)
Hard coal Indonesia [Hard coal (resource)]	Mass	1,50E-02	kg	(Calculated)
Hard coal Japan [Hard coal (resource)]	Mass	3,25E-03	kg	(Calculated)
Hard coal Poland [Hard coal (resource)]	Mass	3,52E-02	kg	(Calculated)
Hard coal Portugal [Hard coal (resource)]	Mass	4,50E-04	kg	(Estimated)
Hard coal South Africa [Hard coal (resource)]	Mass	5,74E-01	kg	(Calculated)

Appendix 2.8
LCI Data – Tablet e-paper newspaper, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Hard coal Spain [Hard coal (resource)]	Mass	5,95E-02	kg	(Calculated)
Hard coal United Kingdom [Hard coal (resource)]	Mass	6,73E-03	kg	(Calculated)
Hard coal USA [Hard coal (resource)]	Mass	1,22E-01	kg	(Calculated)
Hard coal Venezuela [Hard coal (resource)]	Mass	6,69E-03	kg	(Calculated)
Heavy spar (barytes) [Non renewable resources]	Mass	4,82E-03	kg	(Literature)
Inert rock [Non renewable resources]	Mass	1,71E+01	kg	(Calculated)
Infrastructure telecommunication [Flows] *Not followed to the cradle*	Number of pieces	2,11E-01	pcs.	Estimated
Iron [Non renewable elements]	Mass	8,49E-03	kg	(Literature)
Iron ore (65%) [Non renewable resources]	Mass	4,55E-04	kg	(Calculated)
Iron ore [Non renewable resources]	Mass	2,44E-03	kg	(Calculated)
Kaolin ore [Non renewable resources]	Mass	1,24E-02	kg	Measured
Kaolinite (24% in ore as mined) [Non renewable resources]	Mass	8,26E-06	kg	(No statement)
Kieserite (25% in ore as mined) [Non renewable resources]	Mass	5,07E-08	kg	(No statement)
Lead - zinc ore (4.6%-0.6%) [Non renewable resources]	Mass	2,39E-02	kg	Calculated
Lead [Non renewable elements]	Mass	3,72E-04	kg	(No statement)
Lead ore [Non renewable resources]	Mass	3,58E-03	kg	Estimated
Lignite [Lignite (resource)]	Mass	9,87E-01	kg	(Literature)
Lignite Australia [Lignite (resource)]	Mass	2,04E-03	kg	Literature
Lignite Austria [Lignite (resource)]	Mass	6,21E-06	kg	(Calculated)
Lignite France [Lignite (resource)]	Mass	3,49E-06	kg	Calculated
Lignite Germany (Lausitz) [Lignite (resource)]	Mass	2,61E-04	kg	Calculated
Lignite Germany (Rheinisch) [Lignite (resource)]	Mass	2,15E-02	kg	Calculated
Lignite Germany [Lignite (resource)]	Mass	1,02E+00	kg	(Literature)
Lignite Greece [Lignite (resource)]	Mass	5,66E-01	kg	Literature
Lignite Spain [Lignite (resource)]	Mass	1,14E-01	kg	Literature
Lignite USA [Lignite (resource)]	Mass	2,19E-04	kg	Literature
Limestone (calcium carbonate) [Non renewable resources]	Mass	1,29E-01	kg	(Literature)
Lithiumerz (R.O.M) [Non renewable resources]	Mass	2,65E-04	kg	Calculated
Magnesit (Magnesium carbonate) [Non renewable resources]	Mass	1,00E-04	kg	Calculated
Magnesium [Non renewable elements]	Mass	8,05E-09	kg	(No statement)
Magnesium carbonate [Inorganic intermediate products]	Mass	2,96E-03	kg	Estimated
Manganese [Non renewable elements]	Mass	1,72E-05	kg	(No statement)
Manganese ore (R.O.M.) [Non renewable resources]	Mass	2,26E-02	kg	Calculated
Molybdenum [Non renewable elements]	Mass	2,40E-05	kg	(No statement)
Natural Aggregate [Non renewable resources]	Mass	1,24E-01	kg	Calculated
Natural gas [Natural gas (resource)]	Mass	3,32E-01	kg	(Literature)
Natural gas Algeria [Natural gas (resource)]	Mass	3,38E-02	kg	(Literature)
Natural gas Angola [Natural gas (resource)]	Mass	4,02E-04	kg	(Estimated)
Natural gas Argentina [Natural gas (resource)]	Mass	1,97E-06	kg	Literature
Natural gas Australia [Natural gas (resource)]	Mass	7,25E-03	kg	(Literature)
Natural gas Brazil [Natural gas (resource)]	Mass	4,59E-04	kg	(Literature)
Natural gas Brunei [Natural gas (resource)]	Mass	5,10E-03	kg	(Estimated)
Natural gas Cameroon [Natural gas (resource)]	Mass	2,33E-04	kg	(Estimated)
Natural gas Canada [Natural gas (resource)]	Mass	2,51E-04	kg	(Literature)
Natural gas China [Natural gas (resource)]	Mass	1,74E-04	kg	(Calculated)
Natural gas CIS [Natural gas (resource)]	Mass	3,39E-01	kg	(Literature)
Natural gas Colombia [Natural gas (resource)]	Mass	5,54E-08	kg	Literature
Natural gas Denmark [Natural gas (resource)]	Mass	9,32E-03	kg	(Estimated)
Natural gas Egypt [Natural gas (resource)]	Mass	7,16E-04	kg	(Estimated)

Appendix 2.8
LCI Data – Tablet e-paper newspaper, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Natural gas France [Natural gas (resource)]	Mass	1,73E-03	kg	(Estimated)
Natural gas Gabon [Natural gas (resource)]	Mass	3,57E-05	kg	(Estimated)
Natural gas Germany [Natural gas (resource)]	Mass	1,84E-01	kg	(Literature)
Natural gas Indonesia [Natural gas (resource)]	Mass	1,62E-02	kg	(Estimated)
Natural gas Iran [Natural gas (resource)]	Mass	1,46E-03	kg	(Estimated)
Natural gas Italy [Natural gas (resource)]	Mass	1,90E-02	kg	(Literature)
Natural gas Japan [Natural gas (resource)]	Mass	1,61E-03	kg	(Estimated)
Natural gas Kuwait [Natural gas (resource)]	Mass	1,54E-04	kg	(Estimated)
Natural gas Libyan [Natural gas (resource)]	Mass	6,59E-03	kg	(Literature)
Natural gas Malaysia [Natural gas (resource)]	Mass	7,21E-03	kg	(Estimated)
Natural gas Mexico [Natural gas (resource)]	Mass	1,06E-04	kg	(Literature)
Natural gas Netherlands [Natural gas (resource)]	Mass	2,99E-01	kg	(Literature)
Natural gas New Zealand [Natural gas (resource)]	Mass	1,23E-06	kg	(Estimated)
Natural gas Nigeria [Natural gas (resource)]	Mass	1,17E-03	kg	(Estimated)
Natural gas Norway [Natural gas (resource)]	Mass	1,42E-01	kg	(Literature)
Natural gas Oman [Natural gas (resource)]	Mass	5,31E-05	kg	(Estimated)
Natural gas Qatar [Natural gas (resource)]	Mass	5,52E-05	kg	(Estimated)
Natural gas Saudi Arabia [Natural gas (resource)]	Mass	1,91E-03	kg	(Estimated)
Natural gas Spain [Natural gas (resource)]	Mass	3,40E-04	kg	(Estimated)
Natural gas Tunisia [Natural gas (resource)]	Mass	3,45E-05	kg	(Literature)
Natural gas United Arab Emirates [Natural gas (resource)]	Mass	3,86E-03	kg	(Estimated)
Natural gas United Kingdom [Natural gas (resource)]	Mass	7,00E-03	kg	(Estimated)
Natural gas USA [Natural gas (resource)]	Mass	1,43E-03	kg	(Literature)
Natural gas Venezuela [Natural gas (resource)]	Mass	5,45E-04	kg	(Literature)
Nickel [Non renewable elements]	Mass	3,86E-04	kg	(No statement)
Nickel ore (1.6%) [Non renewable resources]	Mass	1,48E-01	kg	(Measured)
Nickel ore [Non renewable resources]	Mass	5,08E-02	kg	(No statement)
Nitrogen [Renewable resources]	Mass	2,76E-06	kg	(Literature)
Occupation, arable, non-irrigated [Hemerobie ecoinvent]	Areatime	4,05E-05	m2*yr	(No statement)
Occupation, construction site [Hemerobie ecoinvent]	Areatime	9,24E-05	m2*yr	(No statement)
Occupation, dump site [Hemerobie ecoinvent]	Areatime	4,65E-03	m2*yr	(No statement)
Occupation, dump site, benthos [Hemerobie ecoinvent]	Areatime	1,85E-04	m2*yr	(No statement)
Occupation, forest, intensive [Hemerobie ecoinvent]	Areatime	1,38E-04	m2*yr	(No statement)
Occupation, forest, intensive, normal [Hemerobie ecoinvent]	Areatime	7,00E-02	m2*yr	(No statement)
Occupation, industrial area [Hemerobie ecoinvent]	Areatime	2,81E-03	m2*yr	(No statement)
Occupation, industrial area, benthos [Hemerobie ecoinvent]	Areatime	1,83E-06	m2*yr	(No statement)
Occupation, industrial area, built up [Hemerobie ecoinvent]	Areatime	1,98E-04	m2*yr	(No statement)
Occupation, industrial area, vegetation [Hemerobie ecoinvent]	Areatime	1,58E-04	m2*yr	(No statement)
Occupation, mineral extraction site [Hemerobie ecoinvent]	Areatime	3,33E-03	m2*yr	(No statement)
Occupation, permanent crop, fruit, intensive [Hemerobie ecoinvent]	Areatime	6,18E-06	m2*yr	(No statement)
Occupation, shrub land, sclerophyllous [Hemerobie ecoinvent]	Areatime	2,21E-05	m2*yr	(No statement)
Occupation, traffic area, rail embankment [Hemerobie ecoinvent]	Areatime	1,37E-04	m2*yr	(No statement)
Occupation, traffic area, rail network [Hemerobie ecoinvent]	Areatime	1,51E-04	m2*yr	(No statement)
Occupation, traffic area, road embankment [Hemerobie ecoinvent]	Areatime	7,19E-04	m2*yr	(No statement)

Appendix 2.8
LCI Data – Tablet e-paper newspaper, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Occupation, traffic area, road network [Hemerobie ecoinvent]	Areatime	6,22E-04	m2*yr	(No statement)
Occupation, urban, discontinuously built [Hemerobie ecoinvent]	Areatime	8,04E-08	m2*yr	(No statement)
Occupation, water bodies, artificial [Hemerobie ecoinvent]	Areatime	9,47E-03	m2*yr	(No statement)
Occupation, water courses, artificial [Hemerobie ecoinvent]	Areatime	3,68E-03	m2*yr	(No statement)
Olivine [Non renewable resources]	Mass	1,61E-09	kg	(No statement)
Oxygen [Renewable resources]	Mass	2,82E-07	kg	Literature
Palladium [Non renewable elements]	Mass	5,71E-10	kg	(No statement)
Peat [Renewable resources]	Mass	1,03E-02	kg	(No statement)
Personal computer [Flows] *Not followed to the cradle*	Number of pieces	5,56E-03	pcs.	Calculated
Phosphate ore [Non renewable resources]	Mass	2,36E-07	kg	(Estimated)
Phosphorus [Non renewable elements]	Mass	5,77E-06	kg	(No statement)
Pit gas [Natural gas (resource)]	Mass	1,59E-02	kg	(Literature)
Platinum [Non renewable elements]	Mass	8,84E-11	kg	(No statement)
Potassium chloride [Non renewable resources]	Mass	1,93E-08	kg	(Literature)
Precious metal ore (R.O.M) [Non renewable resources]	Mass	4,24E+00	kg	(No statement)
Primary energy from geothermics [Renewable energy resources]	Energy ren.	1,33E-08	MJ	Estimated
Primary energy from hydro power (BUWAL) [Renewable energy resources]	Energy ren.	-1,08E-04	MJ	Literature
Primary energy from hydro power [Renewable energy resources]	Energy ren.	1,48E+01	MJ	(Literature)
Primary energy from solar energy [Renewable energy resources]	Energy ren.	9,48E-03	MJ	Estimated
Primary energy from wind power [Renewable energy resources]	Energy ren.	1,07E+00	MJ	Calculated
Process and cooling water [Operating materials]	Mass	7,41E-09	kg	Literature
Process water [Operating materials]	Mass	8,06E+01	kg	(Measured)
Quartz sand (silica sand; silicon dioxide) [Non renewable resources]	Mass	2,25E-02	kg	(Literature)
Raw brown coal (BUWAL) [Lignite (resource)]	Mass	-1,78E-07	kg	Literature
Raw hard coal (BUWAL) [Hard coal (resource)]	Mass	-1,53E-07	kg	Literature
Raw natural gas (BUWAL) [Natural gas (resource)]	Mass	-2,51E-07	kg	Literature
Renewable fuels [Renewable energy resources]	Mass	5,20E-04	kg	(Estimated)
Rhenium [Non renewable elements]	Mass	4,39E-12	kg	(No statement)
Rhodium [Non renewable elements]	Mass	1,58E-11	kg	(No statement)
Rutile (titanium ore) [Non renewable resources]	Mass	6,63E-12	kg	(No statement)
sand [Non renewable resources]	Mass	4,55E-06	kg	(No statement)
Silver [Non renewable elements]	Mass	3,91E-09	kg	(No statement)
Slate [Non renewable resources]	Mass	1,04E-08	kg	(No statement)
Sodium chloride (rock salt) [Non renewable resources]	Mass	2,87E-01	kg	(Literature)
Sodium sulphate [Non renewable resources]	Mass	1,02E-04	kg	Literature
Soil [Non renewable resources]	Mass	2,62E-02	kg	(Calculated)
Steel scrap (St) [Waste for recovery]	Mass	2,14E-04	kg	Calculated
Sulphite [Inorganic emissions to sea water]	Mass	1,35E-16	kg	(No statement)
Sulphur (bonded) [Non renewable resources]	Mass	2,93E-07	kg	(Literature)
Sulphur [Non renewable elements]	Mass	2,79E-06	kg	(Literature)
Sylvite (25% in Sylvinite) [Non renewable resources]	Mass	2,23E-06	kg	(No statement)
Talc [Non renewable resources]	Mass	6,20E-07	kg	(No statement)
Tall oil (raw product) [Organic intermediate products]	Mass	1,24E-04	kg	(No statement)
Tin [Non renewable elements]	Mass	1,10E-07	kg	(No statement)

Appendix 2.8
LCI Data – Tablet e-paper newspaper, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Tin ore [Non renewable resources]	Mass	9,86E-03	kg	Estimated
Titanium dioxide [Non renewable resources]	Mass	1,08E-04	kg	(No statement)
Titanium ore [Non renewable resources]	Mass	1,57E-05	kg	(No statement)
Transformation, from arable [Hemerobie ecoinvent]	Area	2,95E-06	sqm	(No statement)
Transformation, from arable, non-irrigated [Hemerobie ecoinvent]	Area	7,47E-05	sqm	(No statement)
Transformation, from arable, non-irrigated, fallow [Hemerobie ecoinvent]	Area	5,07E-08	sqm	(No statement)
Transformation, from dump site, inert material landfill [Hemerobie ecoinvent]	Area	2,68E-06	sqm	(No statement)
Transformation, from dump site, residual material landfill [Hemerobie ecoinvent]	Area	1,54E-06	sqm	(No statement)
Transformation, from dump site, sanitary landfill [Hemerobie ecoinvent]	Area	1,07E-07	sqm	(No statement)
Transformation, from dump site, slag compartment [Hemerobie ecoinvent]	Area	9,10E-08	sqm	(No statement)
Transformation, from forest [Hemerobie ecoinvent]	Area	2,43E-04	sqm	(No statement)
Transformation, from forest, extensive [Hemerobie ecoinvent]	Area	5,00E-04	sqm	(No statement)
Transformation, from industrial area [Hemerobie ecoinvent]	Area	7,76E-06	sqm	(No statement)
Transformation, from industrial area, benthos [Hemerobie ecoinvent]	Area	8,85E-09	sqm	(No statement)
Transformation, from industrial area, built up [Hemerobie ecoinvent]	Area	1,41E-09	sqm	(No statement)
Transformation, from industrial area, vegetation [Hemerobie ecoinvent]	Area	2,41E-09	sqm	(No statement)
Transformation, from mineral extraction site [Hemerobie ecoinvent]	Area	5,19E-05	sqm	(No statement)
Transformation, from pasture and meadow [Hemerobie ecoinvent]	Area	3,28E-05	sqm	(No statement)
Transformation, from pasture and meadow, intensive [Hemerobie ecoinvent]	Area	6,02E-08	sqm	(No statement)
Transformation, from sea and ocean [Hemerobie ecoinvent]	Area	1,85E-04	sqm	(No statement)
Transformation, from shrub land, sclerophyllous [Hemerobie ecoinvent]	Area	2,59E-05	sqm	(No statement)
Transformation, from unknown [Hemerobie ecoinvent]	Area	2,63E-04	sqm	(No statement)
Transformation, to arable [Hemerobie ecoinvent]	Area	6,16E-05	sqm	(No statement)
Transformation, to arable, non-irrigated [Hemerobie ecoinvent]	Area	7,48E-05	sqm	(No statement)
Transformation, to arable, non-irrigated, fallow [Hemerobie ecoinvent]	Area	7,24E-08	sqm	(No statement)
Transformation, to dump site [Hemerobie ecoinvent]	Area	3,77E-05	sqm	(No statement)
Transformation, to dump site, benthos [Hemerobie ecoinvent]	Area	1,85E-04	sqm	(No statement)
Transformation, to dump site, inert material landfill [Hemerobie ecoinvent]	Area	2,68E-06	sqm	(No statement)
Transformation, to dump site, residual material landfill [Hemerobie ecoinvent]	Area	1,54E-06	sqm	(No statement)
Transformation, to dump site, sanitary landfill [Hemerobie ecoinvent]	Area	1,07E-07	sqm	(No statement)
Transformation, to dump site, slag compartment [Hemerobie ecoinvent]	Area	9,10E-08	sqm	(No statement)
Transformation, to forest [Hemerobie ecoinvent]	Area	1,21E-05	sqm	(No statement)
Transformation, to forest, intensive [Hemerobie ecoinvent]	Area	9,19E-07	sqm	(No statement)

Appendix 2.8
LCI Data – Tablet e-paper newspaper, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Transformation, to forest, intensive, normal [Hemerobie ecoinvent]	Area	4,94E-04	sqm	(No statement)
Transformation, to heterogeneous, agricultural [Hemerobie ecoinvent]	Area	1,11E-05	sqm	(No statement)
Transformation, to industrial area [Hemerobie ecoinvent]	Area	5,25E-05	sqm	(No statement)
Transformation, to industrial area, benthos [Hemerobie ecoinvent]	Area	6,83E-08	sqm	(No statement)
Transformation, to industrial area, built up [Hemerobie ecoinvent]	Area	6,39E-06	sqm	(No statement)
Transformation, to industrial area, vegetation [Hemerobie ecoinvent]	Area	4,51E-06	sqm	(No statement)
Transformation, to mineral extraction site [Hemerobie ecoinvent]	Area	3,06E-04	sqm	(No statement)
Transformation, to pasture and meadow [Hemerobie ecoinvent]	Area	1,12E-06	sqm	(No statement)
Transformation, to permanent crop, fruit, intensive [Hemerobie ecoinvent]	Area	1,04E-07	sqm	(No statement)
Transformation, to sea and ocean [Hemerobie ecoinvent]	Area	8,85E-09	sqm	(No statement)
Transformation, to shrub land, sclerophyllous [Hemerobie ecoinvent]	Area	4,42E-06	sqm	(No statement)
Transformation, to traffic area, rail embankment [Hemerobie ecoinvent]	Area	3,19E-07	sqm	(No statement)
Transformation, to traffic area, rail network [Hemerobie ecoinvent]	Area	3,50E-07	sqm	(No statement)
Transformation, to traffic area, road embankment [Hemerobie ecoinvent]	Area	4,94E-06	sqm	(No statement)
Transformation, to traffic area, road network [Hemerobie ecoinvent]	Area	7,90E-06	sqm	(No statement)
Transformation, to unknown [Hemerobie ecoinvent]	Area	6,83E-06	sqm	(No statement)
Transformation, to urban, discontinuously built [Hemerobie ecoinvent]	Area	1,60E-09	sqm	(No statement)
Transformation, to water bodies, artificial [Hemerobie ecoinvent]	Area	6,98E-05	sqm	(No statement)
Transformation, to water courses, artificial [Hemerobie ecoinvent]	Area	4,46E-05	sqm	(No statement)
Ulexite [Non renewable resources]	Mass	4,43E-07	kg	(No statement)
Uranium free ore (BUWAL) [Uranium (resource)]	Mass	-4,95E-09	kg	Literature
Uranium free ore [Uranium (resource)]	Mass	4,69E-09	kg	Literature
Uranium natural [Uranium (resource)]	Mass	1,62E-04	kg	(Literature)
Waste (unspecified) [Consumer waste]	Mass	5,15E-02	kg	(No statement)
Waste for recovery (unspecified) [Waste for recovery]	Mass	1,15E-01	kg	(No statement)
Water (feed water) [Water]	Mass	2,37E-02	kg	(Literature)
Water (ground water) [Water]	Mass	1,18E+02	kg	Estimated
Water (lake water) [Water]	Mass	4,59E-02	kg	(No statement)
Water (river water) [Water]	Mass	2,53E+01	kg	(No statement)
Water (sea water) [Water]	Mass	3,88E+00	kg	(Literature)
Water (surface water) [Water]	Mass	1,57E+02	kg	(Calculated)
Water [Water]	Mass	2,97E+02	kg	(Measured)
Water for industrial use [Operating materials]	Mass	4,86E+00	kg	(Calculated)
Water, salt, sole [in water]	Volume	1,13E-04	m3	(No statement)
Water,turbine use, unspecified natural origin [in water]	Volume	3,66E+01	m3	(No statement)
Vermiculite [Non renewable resources]	Mass	4,37E-08	kg	(No statement)
Volume occupied, final repository for low-active radioactive waste [Hemerobie ecoinvent]	Volume	1,21E-07	m3	(No statement)
Volume occupied, final repository for radioactive waste [Hemerobie ecoinvent]	Volume	3,06E-08	m3	(No statement)

Appendix 2.8
LCI Data – Tablet e-paper newspaper, European scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Volume occupied, reservoir [Hemerobie ecoinvent]	Cubic meter years	1,23E-01	m3a	(No statement)
Volume occupied, underground deposit [Hemerobie ecoinvent]	Volume	6,02E-08	m3	(No statement)
Wood (BUWAL) [Renewable energy resources]	Mass	-3,51E-03	kg	Literature
Wood [Renewable energy resources]	Mass	1,24E-02	kg	(Calculated)
Wood, hard, standing [biotic]	Volume	5,03E-05	m3	(No statement)
Wood, soft, standing [biotic]	Volume	1,12E-04	m3	(No statement)
Zinc - copper ore (4.07%-2.59%) [Non renewable resources]	Mass	2,67E-01	kg	(Calculated)
Zinc - lead - copper ore (12%-3%-2%) [Non renewable resources]	Mass	2,02E-01	kg	Calculated
Zinc - lead ore (4.21%-4.96%) [Non renewable resources]	Mass	2,96E-09	kg	Estimated
Zinc [Non renewable elements]	Mass	1,42E-05	kg	(No statement)
Zinc ore (sulphide) [Non renewable resources]	Mass	6,34E-11	kg	Calculated

Flow - Outputs	Quantity	Amount	Unit	Origin of data
1,1,1-Trichloroethane [Halogenated organic emissions to air]	Mass	2,04E-08	kg	Estimated
Acenaphthene [Hydrocarbons to fresh water]	Mass	3,76E-11	kg	(No statement)
Acenaphthene [Hydrocarbons to sea water]	Mass	1,88E-11	kg	(No statement)
Acenaphthylene [Hydrocarbons to fresh water]	Mass	2,35E-12	kg	(No statement)
Acenaphthylene [Hydrocarbons to sea water]	Mass	1,17E-12	kg	(No statement)
Acentaphthene [Group NMVOC to air]	Mass	9,36E-12	kg	(No statement)
Acetaldehyde (Ethanal) [Group NMVOC to air]	Mass	3,61E-06	kg	(Literature)
Acetic acid [Group NMVOC to air]	Mass	1,66E-05	kg	(Literature)
Acetic acid [Hydrocarbons to fresh water]	Mass	7,71E-08	kg	(No statement)
Acetone (dimethylcetone) [Group NMVOC to air]	Mass	4,03E-06	kg	(Literature)
Acid (calculated as H+) [Inorganic emissions to fresh water]	Mass	3,88E-05	kg	(Literature)
Aclonifen [Pesticides to agricultural soil]	Mass	1,25E-10	kg	(No statement)
Acrolein [Group NMVOC to air]	Mass	6,12E-10	kg	(No statement)
Acrylonitrile [Hydrocarbons to fresh water]	Mass	3,23E-05	kg	Calculated
Adsorbable organic halogen compounds (AOX) [Analytical measures to fresh water]	Mass	2,36E-04	kg	(Measured)
Adsorbable organic halogen compounds (AOX) [Analytical measures to sea water]	Mass	1,51E-09	kg	(No statement)
Aktinide (general) [Radioactive emissions to air]	Activity	1,33E-06	Bq	(No statement)
Aktinide (general) [Radioactive emissions to sea water]	Activity	1,72E-01	Bq	(No statement)
Aldehyde (unspecified) [Group NMVOC to air]	Mass	1,30E-07	kg	(Literature)
Alkane (unspecified) [Group NMVOC to air]	Mass	5,09E-05	kg	(Calculated)
Alkane (unspecified) [Hydrocarbons to fresh water]	Mass	7,85E-07	kg	(No statement)
Alkane (unspecified) [Hydrocarbons to sea water]	Mass	3,92E-07	kg	(No statement)
Alkene (unspecified) [Group NMVOC to air]	Mass	3,42E-05	kg	(Calculated)
Alkene (unspecified) [Hydrocarbons to fresh water]	Mass	7,25E-08	kg	(No statement)
Alkene (unspecified) [Hydrocarbons to sea water]	Mass	3,62E-08	kg	(No statement)
Aluminum [Fresh water]	Mass	2,71E-03	kg	(No statement)
Aluminum [Inorganic emissions to agricultural soil]	Mass	3,76E-06	kg	(No statement)
Aluminum [Inorganic emissions to fresh water]	Mass	9,04E-05	kg	(Literature)
Aluminum [Inorganic emissions to industrial soil]	Mass	5,21E-06	kg	(No statement)
Aluminum [Inorganic emissions to sea water]	Mass	2,14E-06	kg	(No statement)
Aluminum [Particles to air]	Mass	1,06E-04	kg	(No statement)
Aluminum chips [Waste for recovery]	Mass	2,86E-04	kg	Calculated

Appendix 2.8
LCI Data – Tablet e-paper newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Aluminum oxide (alumina) [Waste for recovery]	Mass	2,26E-04	kg	(Calculated)
Aluminum scrap [Waste for recovery]	Mass	1,69E-03	kg	(Measured)
Americium (Am241) [Radioactive emissions to fresh water]	Activity	1,18E-01	Bq	Calculated
Ammonia [Inorganic emissions to air]	Mass	1,02E-04	kg	(Calculated)
Ammonia [Inorganic emissions to fresh water]	Mass	1,80E-06	kg	(Measured)
Ammonium / ammonia [Fresh water]	Mass	2,93E-07	kg	(No statement)
Ammonium / ammonia [Inorganic emissions to fresh water]	Mass	7,89E-05	kg	(Estimated)
Ammonium / ammonia [Inorganic emissions to sea water]	Mass	2,23E-07	kg	(No statement)
Ammonium [Inorganic emissions to air]	Mass	3,04E-06	kg	Measured
Ammonium carbonate [high population density]	Mass	1,78E-09	kg	(No statement)
Ammonium nitrate [Inorganic emissions to air]	Mass	1,72E-09	kg	(Literature)
Antimony (Sb122) [Radioactive emissions to fresh water]	Activity	4,03E-05	Bq	(No statement)
Antimony (Sb124) [Radioactive emissions to air]	Activity	3,93E-05	Bq	(Literature)
Antimony (Sb124) [Radioactive emissions to fresh water]	Activity	2,96E-02	Bq	(Literature)
Antimony (Sb125) [Radioactive emissions to air]	Activity	1,04E-06	Bq	(No statement)
Antimony (Sb125) [Radioactive emissions to fresh water]	Activity	2,78E-02	Bq	(Literature)
Antimony [Fresh water]	Mass	1,51E-04	kg	(No statement)
Antimony [Heavy metals to agricultural soil]	Mass	1,62E-13	kg	(No statement)
Antimony [Heavy metals to air]	Mass	2,45E-07	kg	(Calculated)
Antimony [Heavy metals to fresh water]	Mass	8,22E-05	kg	(No statement)
Antimony [Heavy metals to industrial soil]	Mass	1,35E-11	kg	(No statement)
Argon (Ar41) [Radioactive emissions to air]	Activity	2,61E+02	Bq	(Literature)
Argon [Inorganic emissions to air]	Mass	3,18E-06	kg	(No statement)
Aromatic hydrocarbons (unspecified) [Group NMVOC to air]	Mass	1,03E-06	kg	(Calculated)
Aromatic hydrocarbons (unspecified) [Hydrocarbons to fresh water]	Mass	3,17E-06	kg	Literature
Aromatic hydrocarbons (unspecified) [Hydrocarbons to sea water]	Mass	1,78E-06	kg	(No statement)
Arsenic [Fresh water]	Mass	2,82E-07	kg	(No statement)
Arsenic [Heavy metals to agricultural soil]	Mass	1,10E-09	kg	(No statement)
Arsenic [Heavy metals to air]	Mass	1,88E-06	kg	(Literature)
Arsenic [Heavy metals to fresh water]	Mass	2,61E-06	kg	(Literature)
Arsenic [Heavy metals to industrial soil]	Mass	1,58E-06	kg	Measured
Arsenic [Heavy metals to sea water]	Mass	4,14E-09	kg	(No statement)
Arsenic trioxide [Heavy metals to air]	Mass	1,18E-11	kg	Measured
Ash [Stockpile goods]	Mass	3,99E-03	kg	(Estimated)
Atrazine [Pesticides to agricultural soil]	Mass	5,10E-12	kg	(No statement)
Barium (Ba140) [Radioactive emissions to air]	Activity	6,79E-05	Bq	(No statement)
Barium (Ba140) [Radioactive emissions to fresh water]	Activity	1,77E-04	Bq	(No statement)
Barium [Fresh water]	Mass	5,28E-05	kg	(No statement)
Barium [Inorganic emissions to agricultural soil]	Mass	8,19E-11	kg	(No statement)
Barium [Inorganic emissions to air]	Mass	7,72E-06	kg	(Literature)
Barium [Inorganic emissions to fresh water]	Mass	6,37E-06	kg	(Literature)
Barium [Inorganic emissions to industrial soil]	Mass	2,61E-06	kg	(No statement)
Barium [Inorganic emissions to sea water]	Mass	2,63E-06	kg	(No statement)
Barium compounds (unspecified; rel. to Ba) [Inorganic emissions to air]	Mass	1,52E-10	kg	Calculated
Barytes [ocean]	Mass	1,15E-04	kg	(No statement)
Battery Li-Ion (E-Paper) [Flows]	Mass	4,74E-11	kg	(No statement)
Bentazone [Pesticides to agricultural soil]	Mass	6,36E-11	kg	(No statement)
Benzaldehyde [Group NMVOC to air]	Mass	2,57E-11	kg	(No statement)

Appendix 2.8
LCI Data – Tablet e-paper newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Benzene [Group NMVOC to air]	Mass	2,37E-05	kg	(Literature)
Benzene [Hydrocarbons to fresh water]	Mass	2,27E-06	kg	(Literature)
Benzene [Hydrocarbons to sea water]	Mass	2,49E-07	kg	(No statement)
Benzo{a}pyrene [Group PAH to air]	Mass	1,14E-07	kg	(Literature)
Beryllium [Fresh water]	Mass	3,80E-07	kg	(No statement)
Beryllium [Inorganic emissions to air]	Mass	2,70E-08	kg	(Calculated)
Beryllium [Inorganic emissions to fresh water]	Mass	3,90E-09	kg	(Literature)
Biological oxygen demand (BOD) [Analytical measures to fresh water]	Mass	2,09E-03	kg	(Literature)
Biological oxygen demand (BOD) [Analytical measures to sea water]	Mass	4,48E-04	kg	(No statement)
Biological oxygen demand, BSB5 (Ecoinvent) [Fresh water]	Mass	3,73E-04	kg	(No statement)
Blast furnace slag [Waste for recovery]	Mass	3,18E-04	kg	(Calculated)
Boiler ash (unspecified) [Waste for recovery]	Mass	4,48E-02	kg	(Calculated)
Boron [Fresh water]	Mass	6,41E-05	kg	(No statement)
Boron [Inorganic emissions to air]	Mass	3,42E-08	kg	(No statement)
Boron [Inorganic emissions to fresh water]	Mass	4,23E-06	kg	(Literature)
Boron [Inorganic emissions to sea water]	Mass	2,48E-08	kg	(No statement)
Boron compounds (unspecified) [Inorganic emissions to air]	Mass	5,63E-05	kg	(Calculated)
Bromate [Inorganic emissions to fresh water]	Mass	1,24E-07	kg	(No statement)
Bromine [Fresh water]	Mass	5,88E-05	kg	(No statement)
Bromine [Inorganic emissions to air]	Mass	9,84E-06	kg	(Calculated)
Bromine [Inorganic emissions to fresh water]	Mass	2,81E-04	kg	(No statement)
Bromine [Inorganic emissions to sea water]	Mass	2,11E-06	kg	(No statement)
Butadiene [Group NMVOC to air]	Mass	3,61E-14	kg	(No statement)
Butane (n-butane) [Group NMVOC to air]	Mass	8,13E-06	kg	(Calculated)
Butane [Group NMVOC to air]	Mass	3,87E-05	kg	(Literature)
Butene [Group NMVOC to air]	Mass	1,89E-07	kg	(No statement)
Butene [Hydrocarbons to fresh water]	Mass	2,70E-10	kg	(No statement)
Cadmium [Fresh water]	Mass	2,05E-07	kg	(No statement)
Cadmium [Heavy metals to agricultural soil]	Mass	2,23E-09	kg	(No statement)
Cadmium [Heavy metals to air]	Mass	3,08E-07	kg	(Literature)
Cadmium [Heavy metals to fresh water]	Mass	6,16E-07	kg	(Literature)
Cadmium [Heavy metals to industrial soil]	Mass	2,56E-07	kg	(Measured)
Cadmium [Heavy metals to sea water]	Mass	1,06E-09	kg	(No statement)
CaF2 (low radioactice) [Radioactive waste]	Mass	1,10E-05	kg	(Literature)
Calcium [Fresh water]	Mass	9,88E-03	kg	(No statement)
Calcium [Inorganic emissions to fresh water]	Mass	1,03E-02	kg	(Literature)
Calcium [Inorganic emissions to sea water]	Mass	9,80E-05	kg	(No statement)
Carbetamide [Pesticides to agricultural soil]	Mass	2,51E-11	kg	(No statement)
Carbon (C14) [Radioactive emissions to air]	Activity	2,24E+02	Bq	(Literature)
Carbon (C14) [Radioactive emissions to fresh water]	Activity	6,10E+00	Bq	(Calculated)
Carbon (unspecified) [Organic emissions to agricultural soil]	Mass	9,84E-06	kg	(No statement)
Carbon (unspecified) [Organic emissions to industrial soil]	Mass	1,56E-05	kg	(No statement)
Carbon dioxide (biotic) [Air]	Mass	1,45E-01	kg	(No statement)
Carbon dioxide [Inorganic emissions to air]	Mass	1,20E+01	kg	(Calculated)
Carbon disulphide [Inorganic emissions to air]	Mass	3,00E-06	kg	(No statement)
Carbon monoxide (biotic) [Air]	Mass	4,20E-05	kg	(No statement)
Carbon monoxide [Inorganic emissions to air]	Mass	5,48E-03	kg	(Literature)
Carbon tetrachloride (tetrachloromethane) [Halogenated	Mass	8,61E-10	kg	(No statement)

Appendix 2.8
LCI Data – Tablet e-paper newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
organic emissions to air]				
Carbon, organically bound [Organic emissions to fresh water]	Mass	7,17E-08	kg	Calculated
Carbonate [Inorganic emissions to fresh water]	Mass	1,16E-04	kg	(Literature)
Cerium (Ce141) [Radioactive emissions to air]	Activity	1,65E-05	Bq	(No statement)
Cerium (Ce141) [Radioactive emissions to fresh water]	Activity	7,06E-05	Bq	(No statement)
Cerium (Ce144) [Radioactive emissions to fresh water]	Activity	2,15E-05	Bq	(No statement)
Cesium (Cs134) [Radioactive emissions to air]	Activity	3,28E-02	Bq	(Literature)
Cesium (Cs134) [Radioactive emissions to fresh water]	Activity	7,78E+00	Bq	(Literature)
Cesium (Cs136) [Radioactive emissions to fresh water]	Activity	1,25E-05	Bq	(No statement)
Cesium (Cs137) [Radioactive emissions to air]	Activity	6,69E-02	Bq	(Literature)
Cesium (Cs137) [Radioactive emissions to fresh water]	Activity	5,56E+01	Bq	(Literature)
Cesium (Cs137) [Radioactive emissions to sea water]	Activity	1,97E+01	Bq	(No statement)
Cesium [Heavy metals to fresh water]	Mass	6,04E-09	kg	(No statement)
Cesium [Heavy metals to sea water]	Mass	3,02E-09	kg	(No statement)
Chemical oxygen demand (COD) [Analytical measures to fresh water]	Mass	2,89E-02	kg	(Literature)
Chemical oxygen demand (COD) [Analytical measures to sea water]	Mass	4,51E-04	kg	(No statement)
Chemical oxygen demand, CSB (Ecoinvent) [Fresh water]	Mass	1,14E-03	kg	(No statement)
Chlorate [Inorganic emissions to fresh water]	Mass	1,05E-06	kg	(No statement)
Chloride (unspecified) [Inorganic emissions to air]	Mass	2,45E-05	kg	(Measured)
Chloride [Fresh water]	Mass	2,35E-05	kg	(No statement)
Chloride [Inorganic emissions to fresh water]	Mass	1,40E-01	kg	(Literature)
Chloride [Inorganic emissions to sea water]	Mass	1,51E-03	kg	(No statement)
Chlorinated hydrocarbons (unspecified) [Halogenated organic emissions to fresh water]	Mass	1,86E-06	kg	(Literature)
Chlorine (dissolved) [Inorganic emissions to fresh water]	Mass	9,44E-05	kg	(Literature)
Chlorine [Inorganic emissions to agricultural soil]	Mass	4,87E-07	kg	(No statement)
Chlorine [Inorganic emissions to air]	Mass	4,20E-07	kg	(Literature)
Chlorine [Inorganic emissions to industrial soil]	Mass	5,27E-05	kg	(No statement)
Chloromethane (methyl chloride) [Halogenated organic emissions to air]	Mass	8,27E-08	kg	Estimated
Chloromethane (methyl chloride) [Halogenated organic emissions to fresh water]	Mass	6,00E-07	kg	(Literature)
Chlorothalonil [Pesticides to agricultural soil]	Mass	2,69E-09	kg	(No statement)
Chlorous dissolvent [Halogenated organic emissions to fresh water]	Mass	3,08E-09	kg	(No statement)
Chlorous dissolvent [Halogenated organic emissions to sea water]	Mass	2,65E-16	kg	(No statement)
Chromium (Cr51) [Radioactive emissions to air]	Activity	1,05E-06	Bq	(No statement)
Chromium (Cr51) [Radioactive emissions to fresh water]	Activity	2,74E-02	Bq	(No statement)
Chromium (unspecified) [Heavy metals to agricultural soil]	Mass	3,28E-08	kg	(No statement)
Chromium (unspecified) [Heavy metals to air]	Mass	1,72E-06	kg	(Literature)
Chromium (unspecified) [Heavy metals to fresh water]	Mass	1,91E-07	kg	(Literature)
Chromium (unspecified) [Heavy metals to industrial soil]	Mass	2,81E-08	kg	(No statement)
Chromium +III [Heavy metals to air]	Mass	1,72E-08	kg	Measured
Chromium +III [Heavy metals to fresh water]	Mass	1,78E-07	kg	(Literature)
Chromium +III [Heavy metals to industrial soil]	Mass	3,26E-09	kg	Calculated
Chromium +VI [Fresh water]	Mass	2,12E-06	kg	(No statement)
Chromium +VI [Heavy metals to air]	Mass	1,68E-08	kg	(No statement)
Chromium +VI [Heavy metals to fresh water]	Mass	1,47E-06	kg	Literature
Chromium +VI [Heavy metals to industrial soil]	Mass	1,43E-06	kg	(No statement)

Appendix 2.8
LCI Data – Tablet e-paper newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Cobalt (Co57) [Radioactive emissions to fresh water]	Activity	3,98E-04	Bq	(No statement)
Cobalt (Co58) [Radioactive emissions to air]	Activity	1,93E-04	Bq	(Literature)
Cobalt (Co58) [Radioactive emissions to fresh water]	Activity	2,68E-01	Bq	(Literature)
Cobalt (Co60) [Radioactive emissions to air]	Activity	4,82E-03	Bq	(Literature)
Cobalt (Co60) [Radioactive emissions to fresh water]	Activity	2,59E+01	Bq	(Literature)
Cobalt [Fresh water]	Mass	5,57E-06	kg	(No statement)
Cobalt [Heavy metals to agricultural soil]	Mass	3,06E-09	kg	(No statement)
Cobalt [Heavy metals to air]	Mass	1,18E-06	kg	(Literature)
Cobalt [Heavy metals to fresh water]	Mass	1,22E-08	kg	Measured
Cobalt [Heavy metals to industrial soil]	Mass	1,12E-08	kg	Measured
Cobalt [Heavy metals to sea water]	Mass	5,93E-10	kg	(No statement)
Cooling water [Waste for recovery]	Mass	5,18E+01	kg	(Measured)
Copper [Fresh water]	Mass	1,30E-04	kg	(No statement)
Copper [Heavy metals to agricultural soil]	Mass	3,71E-08	kg	(No statement)
Copper [Heavy metals to air]	Mass	7,38E-06	kg	(Literature)
Copper [Heavy metals to fresh water]	Mass	1,93E-06	kg	(Literature)
Copper [Heavy metals to industrial soil]	Mass	6,82E-06	kg	(Measured)
Copper [Heavy metals to sea water]	Mass	7,73E-09	kg	(No statement)
Cumene (isopropylbenzene) [Group NMVOC to air]	Mass	3,52E-08	kg	(No statement)
Cumene (isopropylbenzene) [Organic emissions to fresh water]	Mass	8,46E-08	kg	(No statement)
Curium (Cm alpha) [Radioactive emissions to fresh water]	Activity	1,57E-01	Bq	Calculated
Cyanide (unspecified) [Inorganic emissions to air]	Mass	6,27E-07	kg	(No statement)
Cyanide [Inorganic emissions to fresh water]	Mass	8,56E-07	kg	(Literature)
Cyanide [Inorganic emissions to sea water]	Mass	1,07E-08	kg	(No statement)
Cycloalkanes (unspec.) [Group NMVOC to air]	Mass	7,39E-10	kg	(No statement)
Cypermethrin [Pesticides to agricultural soil]	Mass	6,22E-13	kg	(No statement)
Detergent (unspecified) [Other emissions to fresh water]	Mass	8,61E-10	kg	(Literature)
Dichloroethane (ethylene dichloride) [Halogenated organic emissions to air]	Mass	7,95E-09	kg	(No statement)
Dichloroethane (ethylene dichloride) [Halogenated organic emissions to fresh water]	Mass	5,61E-09	kg	(No statement)
Dichloromethane (methylene chloride) [Halogenated organic emissions to air]	Mass	4,84E-05	kg	Calculated
Dichloromethane (methylene chloride) [Halogenated organic emissions to fresh water]	Mass	1,32E-07	kg	(No statement)
Dichloropropane [Halogenated organic emissions to fresh water]	Mass	2,69E-10	kg	Calculated
Dichromate [river]	Mass	3,75E-08	kg	(No statement)
Diethyl amine (ethylene ethane amine) [Group NMVOC to air]	Mass	1,78E-11	kg	Measured
Different pollutants [Other emissions to agricultural soil]	Mass	7,25E-05	kg	(No statement)
Different pollutants [Other emissions to industrial soil]	Mass	3,82E-05	kg	(No statement)
Dinoseb [Pesticides to agricultural soil]	Mass	7,31E-10	kg	(No statement)
Dissolved organic carbon, DOC (Ecoinvent) [Fresh water]	Mass	4,70E-04	kg	(No statement)
Dross [Waste for recovery]	Mass	1,15E-04	kg	(Literature)
Dust (> PM10) [Particles to air]	Mass	2,27E-03	kg	(No statement)
Dust (PM2,5 - PM10) [Particles to air]	Mass	2,01E-04	kg	(No statement)
Dust (PM2.5) [Particles to air]	Mass	8,42E-04	kg	(No statement)
Dust (unspecified) [Particles to air]	Mass	4,27E-03	kg	(Literature)
Ethane [Group NMVOC to air]	Mass	9,18E-04	kg	(Calculated)
Ethanol [Group NMVOC to air]	Mass	7,58E-06	kg	(Literature)
Ethene (ethylene) [Group NMVOC to air]	Mass	1,59E-06	kg	Calculated

Appendix 2.8
LCI Data – Tablet e-paper newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Ethene (ethylene) [Hydrocarbons to fresh water]	Mass	3,14E-08	kg	(No statement)
Ethine (acetylene) [Group NMVOC to air]	Mass	3,48E-08	kg	(No statement)
Ethyl benzene [Group NMVOC to air]	Mass	2,58E-05	kg	(Calculated)
Ethyl benzene [Hydrocarbons to fresh water]	Mass	4,82E-07	kg	(Literature)
Ethyl benzene [Hydrocarbons to sea water]	Mass	7,24E-08	kg	(No statement)
Ethylene oxide [Group NMVOC to air]	Mass	4,15E-10	kg	(No statement)
Ethylene oxide [Hydrocarbons to fresh water]	Mass	1,23E-11	kg	(No statement)
Ethylenediamine [Group NMVOC to air]	Mass	6,38E-13	kg	(No statement)
Ethylenediamine [Organic emissions to fresh water]	Mass	1,55E-12	kg	(No statement)
Exhaust [Other emissions to air]	Mass	3,52E+01	kg	(Calculated)
Fatty acids (calculated as total carbon) [Hydrocarbons to fresh water]	Mass	2,22E-05	kg	(No statement)
Fatty acids (calculated as total carbon) [Hydrocarbons to sea water]	Mass	1,79E-05	kg	(No statement)
Fenpiclonil [Pesticides to agricultural soil]	Mass	1,10E-10	kg	(No statement)
Filter dust (heavy fuel oil power plant) [Waste for recovery]	Mass	8,56E-05	kg	(Calculated)
Filter dust [Waste for recovery]	Mass	9,49E-07	kg	Calculated
Fluoride (unspecified) [Inorganic emissions to air]	Mass	2,63E-06	kg	(Literature)
Fluoride [Fresh water]	Mass	1,07E-05	kg	(No statement)
Fluoride [Inorganic emissions to fresh water]	Mass	8,44E-04	kg	(Literature)
Fluoride [Inorganic emissions to industrial soil]	Mass	1,23E-06	kg	(No statement)
Fluoride [Inorganic emissions to sea water]	Mass	3,52E-07	kg	(No statement)
Fluorides [Inorganic emissions to air]	Mass	1,42E-08	kg	(Estimated)
Fluorine [Inorganic emissions to air]	Mass	2,94E-07	kg	(Literature)
Fluorine [Inorganic emissions to fresh water]	Mass	5,96E-07	kg	(Measured)
Fly ash (unspecified) [Waste for recovery]	Mass	1,38E-01	kg	(Calculated)
Formaldehyde (methanal) [Group NMVOC to air]	Mass	2,63E-05	kg	(Literature)
Formaldehyde (methanal) [Hydrocarbons to fresh water]	Mass	1,14E-08	kg	(No statement)
Furnace clinker [Waste for recovery]	Mass	4,93E-06	kg	Calculated
Glutaraldehyde [Hydrocarbons to sea water]	Mass	1,42E-08	kg	(No statement)
Glyphosate [Pesticides to agricultural soil]	Mass	8,24E-10	kg	(No statement)
Glyphosate [Pesticides to industrial soil]	Mass	9,22E-09	kg	(No statement)
Gypsum (FDI) [Waste for recovery]	Mass	2,20E-02	kg	(Calculated)
Gypsum [Waste for recovery]	Mass	1,14E-03	kg	(Estimated)
Halogenated hydrocarbons (unspecified) [Halogenated organic emissions to air]	Mass	-4,11E-13	kg	Literature
Halon (1211) [Halogenated organic emissions to air]	Mass	1,13E-08	kg	(No statement)
Halon (1301) [Halogenated organic emissions to air]	Mass	3,45E-08	kg	(Literature)
Hazardous waste (unspec.) [Hazardous waste]	Mass	2,05E-01	kg	(Estimated)
Heat from natural gas [Flows]	Energy	5,99E-12	MJ	(No statement)
Heat from oil [Flows]	Energy	5,39E-11	MJ	(No statement)
Heat from waste [Flows]	Energy	6,43E-11	MJ	(No statement)
Heavy metals to water (unspecified) [Heavy metals to fresh water]	Mass	8,84E-07	kg	(Measured)
Helium [Inorganic emissions to air]	Mass	1,48E-05	kg	(Literature)
Heptane (isomers) [Group NMVOC to air]	Mass	1,89E-06	kg	(No statement)
Hexachlorobenzene (Perchlorobenzene) [Halogenated organic emissions to air]	Mass	1,16E-10	kg	(No statement)
Hexaflourosilicates [Air]	Mass	1,13E-08	kg	(No statement)
Hexaflourosilicates [Sweet-]	Mass	2,03E-08	kg	(No statement)
Hexane (isomers) [Group NMVOC to air]	Mass	1,46E-05	kg	(Literature)
Hexane (isomers) [Hydrocarbons to fresh water]	Mass	2,00E-08	kg	Calculated
Highly radioactive waste [Radioactive waste]	Mass	3,21E-05	kg	(Calculated)

Appendix 2.8
LCI Data – Tablet e-paper newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Highly-active fission product solution [Radioactive waste]	Mass	2,23E-07	kg	(Estimated)
Housing (E-Paper) [Flows]	Mass	2,84E-06	kg	(No statement)
Hydrocarbons (unspecified) [Hydrocarbons to fresh water]	Mass	1,21E-05	kg	(Literature)
Hydrocarbons (unspecified) [Hydrocarbons to sea water]	Mass	2,16E-06	kg	(No statement)
Hydrocarbons, aromatic [Group NMVOC to air]	Mass	1,66E-06	kg	(No statement)
Hydrocarbons, chloro-/fluoro- [Halogenated organic emissions to air]	Mass	5,62E-09	kg	(No statement)
Hydrocarbons, halogenated [Halogenated organic emissions to air]	Mass	1,25E-09	kg	(No statement)
Hydrogen (H3) [Radioactive emissions to air]	Activity	1,11E+03	Bq	(Literature)
Hydrogen (H3) [Radioactive emissions to fresh water]	Activity	1,82E+05	Bq	(Literature)
Hydrogen (H3) [Radioactive emissions to sea water]	Activity	4,09E+04	Bq	(No statement)
Hydrogen [Inorganic emissions to air]	Mass	9,60E-06	kg	(Measured)
Hydrogen arsenic (arsine) [Heavy metals to air]	Mass	9,80E-10	kg	Measured
Hydrogen chloride [Inorganic emissions to air]	Mass	7,91E-04	kg	(Literature)
Hydrogen chloride [Inorganic emissions to fresh water]	Mass	1,54E-11	kg	Estimated
Hydrogen cyanide (prussic acid) [Inorganic emissions to air]	Mass	7,29E-09	kg	(Calculated)
Hydrogen fluoride (hydrofluoric acid) [Inorganic emissions to fresh water]	Mass	5,13E-09	kg	(Measured)
Hydrogen fluoride [Inorganic emissions to air]	Mass	2,15E-04	kg	(Literature)
Hydrogen peroxide [Sweet-]	Mass	4,24E-10	kg	(No statement)
Hydrogen phosphorous [Inorganic emissions to air]	Mass	8,41E-10	kg	Measured
Hydrogen sulphide [Fresh water]	Mass	1,29E-06	kg	(No statement)
Hydrogen sulphide [Inorganic emissions to air]	Mass	3,51E-04	kg	(Estimated)
Hydrogen sulphide [Inorganic emissions to fresh water]	Mass	3,28E-08	kg	(No statement)
Hydroxide [Inorganic emissions to fresh water]	Mass	7,28E-05	kg	Estimated
Hypochlorite [Inorganic emissions to fresh water]	Mass	1,37E-06	kg	(No statement)
Hypochlorite [Inorganic emissions to sea water]	Mass	1,55E-06	kg	(No statement)
Iliad Module (E-Paper) [Flows]	Mass	5,58E-12	kg	(No statement)
Incineration good [Waste for disposal]	Mass	2,12E-03	kg	Literature
Industrial waste for municipal disposal [Consumer waste]	Mass	2,84E-01	kg	(Literature)
inert chemical waste [Consumer waste]	Mass	2,96E-03	kg	(Literature)
Inert gases [Radioactive emissions to air]	Activity	1,02E+06	Bq	(No statement)
Inorganic salts and acids (unspecified) [Inorganic emissions to fresh water]	Mass	-4,36E-08	kg	Literature
Iodide [Fresh water]	Mass	1,21E-12	kg	(No statement)
Iodide [Inorganic emissions to fresh water]	Mass	7,28E-07	kg	(No statement)
Iodide [Inorganic emissions to sea water]	Mass	3,02E-07	kg	(No statement)
Iodine (I129) [Radioactive emissions to air]	Activity	3,62E-01	Bq	Calculated
Iodine (I129) [Radioactive emissions to fresh water]	Activity	1,75E+01	Bq	(Calculated)
Iodine (I131) [Radioactive emissions to air]	Activity	5,40E+00	Bq	(Literature)
Iodine (I131) [Radioactive emissions to fresh water]	Activity	6,10E-03	Bq	(Literature)
Iodine (I133) [Radioactive emissions to air]	Activity	8,12E-05	Bq	(No statement)
Iodine (I133) [Radioactive emissions to fresh water]	Activity	1,11E-04	Bq	(No statement)
Iodine [Inorganic emissions to air]	Mass	1,24E-06	kg	(No statement)
Iron (Fe59) [Radioactive emissions to fresh water]	Activity	3,05E-05	Bq	(No statement)
Iron [Fresh water]	Mass	1,73E-03	kg	(No statement)
Iron [Heavy metals to agricultural soil]	Mass	8,83E-06	kg	(No statement)
Iron [Heavy metals to air]	Mass	4,51E-06	kg	(Literature)
Iron [Heavy metals to fresh water]	Mass	4,53E-03	kg	(Literature)
Iron [Heavy metals to industrial soil]	Mass	2,80E-05	kg	(No statement)
Iron [Heavy metals to sea water]	Mass	1,64E-07	kg	(No statement)

Appendix 2.8
LCI Data – Tablet e-paper newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Isocyanide acid [Air]	Mass	4,46E-07	kg	(No statement)
Jacket and body material [Radioactive waste]	Mass	1,34E-07	kg	(Estimated)
Krypton (Kr85) [Radioactive emissions to air]	Activity	4,52E+06	Bq	(Literature)
Krypton (Kr85m) [Radioactive emissions to air]	Activity	6,03E+00	Bq	(Literature)
Krypton (Kr87) [Radioactive emissions to air]	Activity	7,34E-01	Bq	(No statement)
Krypton (Kr88) [Radioactive emissions to air]	Activity	6,91E-01	Bq	(No statement)
Krypton (Kr89) [Radioactive emissions to air]	Activity	1,56E-01	Bq	(No statement)
Lanthanides [Heavy metals to air]	Mass	4,42E-09	kg	(Calculated)
Lanthanum (La140) [Radioactive emissions to fresh water]	Activity	1,88E-04	Bq	(No statement)
Lanthanum (La141) [Radioactive emissions to air]	Activity	5,80E-06	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to air]	Activity	4,71E-01	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to fresh water]	Activity	2,32E-01	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to sea water]	Activity	1,13E-02	Bq	(No statement)
Lead [Fresh water]	Mass	2,29E-06	kg	(No statement)
Lead [Heavy metals to agricultural soil]	Mass	1,31E-08	kg	(No statement)
Lead [Heavy metals to air]	Mass	6,52E-06	kg	(Literature)
Lead [Heavy metals to fresh water]	Mass	6,52E-06	kg	(Literature)
Lead [Heavy metals to industrial soil]	Mass	1,13E-05	kg	(Measured)
Lead [Heavy metals to sea water]	Mass	3,06E-08	kg	(No statement)
Linuron [Pesticides to agricultural soil]	Mass	9,66E-10	kg	(No statement)
Liquid hazardous waste [Hazardous waste]	Mass	4,53E-06	kg	(Estimated)
Liquid waste [Consumer waste]	Mass	6,11E-05	kg	(Calculated)
Lubricating oil [Operating materials]	Mass	2,23E-05	kg	Calculated
Magnesium [Fresh water]	Mass	1,47E-03	kg	(No statement)
Magnesium [Inorganic emissions to fresh water]	Mass	1,59E-04	kg	(Literature)
Magnesium [Inorganic emissions to sea water]	Mass	1,66E-05	kg	(No statement)
Magnesium chloride [Inorganic emissions to fresh water]	Mass	3,48E-09	kg	(No statement)
Mancozeb [Pesticides to agricultural soil]	Mass	3,50E-09	kg	(No statement)
Manganese (Mn54) [Radioactive emissions to air]	Activity	5,40E-07	Bq	(No statement)
Manganese (Mn54) [Radioactive emissions to fresh water]	Activity	4,01E+00	Bq	(Literature)
Manganese [Fresh water]	Mass	2,66E-05	kg	(No statement)
Manganese [Heavy metals to agricultural soil]	Mass	3,06E-06	kg	(No statement)
Manganese [Heavy metals to air]	Mass	1,04E-06	kg	(Calculated)
Manganese [Heavy metals to fresh water]	Mass	1,22E-05	kg	(Literature)
Manganese [Heavy metals to industrial soil]	Mass	2,46E-07	kg	(No statement)
Manganese [Heavy metals to sea water]	Mass	1,33E-07	kg	(No statement)
Medium and low radioactive liquid waste [Radioactive waste]	Mass	2,84E-07	kg	(Calculated)
Medium and low radioactive wastes [Radioactive waste]	Mass	3,82E-05	kg	(Literature)
Mercaptan (unspecified) [Group NMVOC to air]	Mass	8,61E-10	kg	(Literature)
Mercury [Fresh water]	Mass	1,09E-08	kg	(No statement)
Mercury [Heavy metals to agricultural soil]	Mass	7,24E-11	kg	(No statement)
Mercury [Heavy metals to air]	Mass	3,71E-07	kg	(Literature)
Mercury [Heavy metals to fresh water]	Mass	1,98E-08	kg	(Literature)
Mercury [Heavy metals to industrial soil]	Mass	6,41E-08	kg	(Measured)
Mercury [Heavy metals to sea water]	Mass	2,06E-10	kg	(No statement)
Metal ions (unspecific) [Fresh water]	Mass	1,37E-04	kg	(No statement)
Metal ions (unspecific) [Inorganic emissions to fresh water]	Mass	2,70E-05	kg	Calculated
Metaldehyde [Organic emissions to agricultural soil]	Mass	5,39E-12	kg	(No statement)
Metals (unspecified) [Inorganic emissions to fresh water]	Mass	3,22E-11	kg	Literature
Metals (unspecified) [Particles to air]	Mass	-1,09E-08	kg	(Literature)

Appendix 2.8
LCI Data – Tablet e-paper newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Metals (unspecified) [Particles to fresh water]	Mass	1,82E-06	kg	(Literature)
Methacrylate [Group NMVOC to air]	Mass	5,98E-10	kg	Calculated
Methane (biotic) [Air]	Mass	1,66E-05	kg	(No statement)
Methane [Organic emissions to air (group VOC)]	Mass	2,20E-02	kg	(Literature)
Methanol [Group NMVOC to air]	Mass	7,36E-06	kg	(Literature)
Methanol [Hydrocarbons to fresh water]	Mass	1,18E-05	kg	(Measured)
Methanol [Hydrocarbons to sea water]	Mass	1,86E-07	kg	(No statement)
Methyl methacrylate (MMA) [Group NMVOC to air]	Mass	1,65E-08	kg	Calculated
Methyl tert-butylether [Group NMVOC to air]	Mass	5,62E-10	kg	(No statement)
Methyl tert-butylether [Hydrocarbons to fresh water]	Mass	8,76E-12	kg	(No statement)
Methyl tert-butylether [Hydrocarbons to sea water]	Mass	1,96E-08	kg	(No statement)
Metolachlor [Pesticides to agricultural soil]	Mass	6,99E-09	kg	(No statement)
Metribuzin [Pesticides to agricultural soil]	Mass	1,23E-10	kg	(No statement)
Mineral waste [Consumer waste]	Mass	1,50E-05	kg	Estimated
Molybdenum (Mo99) [Radioactive emissions to fresh water]	Activity	6,48E-05	Bq	(No statement)
Molybdenum [Fresh water]	Mass	8,45E-08	kg	(No statement)
Molybdenum [Heavy metals to agricultural soil]	Mass	7,53E-10	kg	(No statement)
Molybdenum [Heavy metals to air]	Mass	6,87E-08	kg	(Literature)
Molybdenum [Heavy metals to fresh water]	Mass	4,49E-06	kg	(Literature)
Molybdenum [Heavy metals to sea water]	Mass	6,19E-10	kg	(No statement)
Monoethanolamine [Group NMVOC to air]	Mass	8,39E-09	kg	(No statement)
Municipal waste [Consumer waste]	Mass	1,17E-03	kg	(Calculated)
Napropamide [Pesticides to agricultural soil]	Mass	9,54E-12	kg	(No statement)
Neutral salts [Inorganic emissions to fresh water]	Mass	6,18E-05	kg	(Calculated)
Nickel [Fresh water]	Mass	4,01E-05	kg	(No statement)
Nickel [Heavy metals to agricultural soil]	Mass	9,79E-09	kg	(No statement)
Nickel [Heavy metals to air]	Mass	6,80E-06	kg	(Literature)
Nickel [Heavy metals to fresh water]	Mass	9,17E-07	kg	(Literature)
Nickel [Heavy metals to industrial soil]	Mass	1,20E-07	kg	Calculated
Nickel [Heavy metals to sea water]	Mass	2,25E-09	kg	(No statement)
Niobium (Nb95) [Radioactive emissions to air]	Activity	2,53E-03	Bq	(No statement)
Nitrate [Fresh water]	Mass	2,35E-05	kg	(No statement)
Nitrate [Inorganic emissions to air]	Mass	4,86E-09	kg	(No statement)
Nitrate [Inorganic emissions to fresh water]	Mass	1,39E-04	kg	(Literature)
Nitrate [Inorganic emissions to sea water]	Mass	1,33E-05	kg	(No statement)
Nitrite [Fresh water]	Mass	1,59E-08	kg	(No statement)
Nitrite [Inorganic emissions to fresh water]	Mass	6,73E-07	kg	(No statement)
Nitrite [Inorganic emissions to sea water]	Mass	2,67E-07	kg	(No statement)
Nitrogen [Inorganic emissions to fresh water]	Mass	3,46E-05	kg	(Literature)
Nitrogen [Inorganic emissions to sea water]	Mass	4,69E-08	kg	(No statement)
Nitrogen monoxide [Inorganic emissions to air]	Mass	1,59E-09	kg	Calculated
Nitrogen organic bounded [Fresh water]	Mass	4,78E-07	kg	(No statement)
Nitrogen organic bounded [Inorganic emissions to fresh water]	Mass	1,32E-06	kg	Literature
Nitrogen organic bounded [Inorganic emissions to sea water]	Mass	1,05E-06	kg	(No statement)
Nitrogen oxides [Inorganic emissions to air]	Mass	2,46E-02	kg	(Literature)
Nitrous oxide (laughing gas) [Inorganic emissions to air]	Mass	4,68E-04	kg	(Calculated)
NMVOC (unspecified) [Group NMVOC to air]	Mass	5,14E-03	kg	(Literature)
non used primary energy from water power [Other emissions to fresh water]	Energy ren.	1,31E+00	MJ	(Calculated)
non used primary energy from wind power [Other emissions to air]	Energy ren.	1,16E-01	MJ	(Calculated)

Appendix 2.8
LCI Data – Tablet e-paper newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Oil (unspecified) [Hydrocarbons to fresh water]	Mass	5,48E-04	kg	(Literature)
Oil (unspecified) [Hydrocarbons to sea water]	Mass	1,39E-04	kg	(No statement)
Oil (unspecified) [Organic emissions to agricultural soil]	Mass	6,45E-04	kg	(No statement)
Oil (unspecified) [Organic emissions to industrial soil]	Mass	3,09E-06	kg	Measured
Orbencarb [Pesticides to agricultural soil]	Mass	6,64E-10	kg	(No statement)
Organic chlorine compounds (unspecified) [Organic emissions to fresh water]	Mass	8,61E-10	kg	(Literature)
Organic chlorine compounds [Organic emissions to air (group VOC)]	Mass	7,69E-10	kg	(Literature)
Organic compounds (unspecified) [Organic emissions to fresh water]	Mass	2,64E-10	kg	(Estimated)
Overburden [Stockpile goods]	Mass	1,94E+01	kg	(Literature)
Oxygen [Inorganic emissions to air]	Mass	8,58E-05	kg	Literature
Ozone [Inorganic emissions to air]	Mass	3,59E-05	kg	(No statement)
Pentachlorobenzene [Halogenated organic emissions to air]	Mass	1,23E-10	kg	(No statement)
Pentachlorophenol (PCP) [Halogenated organic emissions to air]	Mass	3,71E-08	kg	(No statement)
Pentane (n-pentane) [Group NMVOC to air]	Mass	5,37E-05	kg	(Literature)
Phenol (hydroxy benzene) [Group NMVOC to air]	Mass	1,58E-08	kg	(No statement)
Phenol (hydroxy benzene) [Hydrocarbons to fresh water]	Mass	2,92E-06	kg	(Literature)
Phenol (hydroxy benzene) [Hydrocarbons to sea water]	Mass	3,85E-07	kg	(No statement)
Phosphate [Fresh water]	Mass	4,97E-05	kg	(No statement)
Phosphate [Inorganic emissions to fresh water]	Mass	7,71E-06	kg	(Literature)
Phosphate [Inorganic emissions to sea water]	Mass	1,91E-07	kg	(No statement)
Phosphorus [Inorganic emissions to agricultural soil]	Mass	1,49E-06	kg	(No statement)
Phosphorus [Inorganic emissions to air]	Mass	3,79E-07	kg	(No statement)
Phosphorus [Inorganic emissions to fresh water]	Mass	1,36E-07	kg	(No statement)
Phosphorus [Inorganic emissions to industrial soil]	Mass	2,61E-07	kg	(No statement)
Phosphorus [Inorganic emissions to sea water]	Mass	2,90E-08	kg	(No statement)
Pirimicarb [Pesticides to agricultural soil]	Mass	6,02E-12	kg	(No statement)
Plastic (unspecified) [Waste for recovery]	Mass	0,00E+00	kg	Calculated
Platinum [Heavy metals to air]	Mass	3,91E-14	kg	(No statement)
Plutonium (Pu alpha) [Radioactive emissions to air]	Activity	4,13E-03	Bq	(Calculated)
Plutonium (Pu alpha) [Radioactive emissions to fresh water]	Activity	5,03E-01	Bq	(Calculated)
Plutonium (Pu238) [Radioactive emissions to air]	Activity	1,44E-08	Bq	(No statement)
Plutonium as residual product [Radioactive waste]	Mass	6,57E-08	kg	(Calculated)
Polonium (Po210) [Radioactive emissions to air]	Activity	8,26E-01	Bq	(No statement)
Polonium (Po210) [Radioactive emissions to fresh water]	Activity	2,32E-01	Bq	(No statement)
Polonium (Po210) [Radioactive emissions to sea water]	Activity	1,73E-02	Bq	(No statement)
Polychlorinated biphenyls (PCB unspecified) [Halogenated organic emissions to air]	Mass	1,21E-10	kg	(No statement)
Polychlorinated dibenzo-p-dioxins (2,3,7,8 - TCDD) [Halogenated organic emissions to air]	Mass	1,49E-11	kg	(Literature)
Polychlorinated dibenzo-p-dioxins (2,3,7,8 - TCDD) [Halogenated organic emissions to fresh water]	Mass	2,50E-14	kg	(Estimated)
Polycyclic aromatic hydrocarbons (PAH) [Group PAH to air]	Mass	3,63E-07	kg	(Literature)
Polycyclic aromatic hydrocarbons (PAH, unspec.) [Hydrocarbons to fresh water]	Mass	2,26E-06	kg	(Literature)
Polycyclic aromatic hydrocarbons (PAH, unspec.) [Hydrocarbons to sea water]	Mass	2,39E-08	kg	(No statement)
Polycyclic hydrocarbons [Organic emissions to air (group VOC)]	Mass	1,24E-12	kg	Measured

Appendix 2.8
LCI Data – Tablet e-paper newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Populated PWB Iliad Module (E-Paper) [Flows]	Mass	2,75E-06	kg	(No statement)
Potassium (K40) [Radioactive emissions to air]	Activity	1,00E-01	Bq	(No statement)
Potassium (K40) [Radioactive emissions to fresh water]	Activity	2,91E-01	Bq	(No statement)
Potassium (K40) [Radioactive emissions to sea water]	Activity	1,37E-03	Bq	(No statement)
Potassium [Fresh water]	Mass	2,67E-04	kg	(No statement)
Potassium [Inorganic emissions to fresh water]	Mass	2,42E-04	kg	(Literature)
Potassium [Inorganic emissions to sea water]	Mass	1,28E-05	kg	(No statement)
Propane [Group NMVOC to air]	Mass	4,41E-04	kg	(Literature)
Propanol (iso-propanol; isopropanol) [Group NMVOC to air]	Mass	1,93E-04	kg	Estimated
Propene (propylene) [Group NMVOC to air]	Mass	4,58E-06	kg	(Calculated)
Propene [Hydrocarbons to fresh water]	Mass	3,65E-08	kg	(No statement)
Propionaldehyde [Group NMVOC to air]	Mass	2,57E-11	kg	(No statement)
Propionic acid (propane acid) [Group NMVOC to air]	Mass	1,97E-07	kg	(Literature)
Propylene oxide [Group NMVOC to air]	Mass	2,51E-09	kg	(No statement)
Propylene oxide [Hydrocarbons to fresh water]	Mass	6,05E-09	kg	(No statement)
Protactinium (Pa234m) [Radioactive emissions to air]	Activity	1,44E-02	Bq	(No statement)
Protactinium (Pa234m) [Radioactive emissions to fresh water]	Activity	2,67E-01	Bq	(No statement)
PWB (mass) [Electronic components]	Mass	6,73E-02	kg	Calculated
R 11 (trichlorofluoromethane) [Halogenated organic emissions to air]	Mass	7,36E-07	kg	(Literature)
R 113 (trichlorofluoroethane) [Halogenated organic emissions to air]	Mass	0,00E+00	kg	(No statement)
R 114 (dichlorotetrafluoroethane) [Halogenated organic emissions to air]	Mass	7,79E-07	kg	(Literature)
R 116 (hexafluoroethane) [Halogenated organic emissions to air]	Mass	2,83E-07	kg	Calculated
R 12 (dichlorodifluoromethane) [Halogenated organic emissions to air]	Mass	1,58E-07	kg	(Literature)
R 124 (chlorotetrafluoroethane) [Halogenated organic emissions to air]	Mass	0,00E+00	kg	(No statement)
R 13 (chlorotrifluoromethane) [Halogenated organic emissions to air]	Mass	9,94E-08	kg	(Literature)
R 134a (tetrafluoroethane) [Halogenated organic emissions to air]	Mass	4,69E-08	kg	(No statement)
R 141b (dichloro-1-fluoroethane) [Halogenated organic emissions to air]	Mass	1,11E-06	kg	Estimated
R 142b (chlorodifluoroethane) [Halogenated organic emissions to air]	Mass	3,16E-08	kg	Estimated
R 21 (Dichlorofluoromethane) [Halogenated organic emissions to air]	Mass	1,57E-15	kg	(No statement)
R 22 (chlorodifluoromethane) [Halogenated organic emissions to air]	Mass	2,48E-07	kg	(Literature)
R 23 (trifluoromethane) [Halogenated organic emissions to air]	Mass	5,00E-13	kg	(No statement)
Radioactive emissions (general) [Radioactive emissions to air]	Activity	2,59E-02	Bq	(No statement)
Radioactive isotopes (unspecific) [Radioactive emissions to air]	Activity	2,26E-01	Bq	(No statement)
Radioactive isotopes (unspecific) [Radioactive emissions to fresh water]	Activity	1,03E+02	Bq	(No statement)
Radioactive tailings [Radioactive waste]	Mass	1,94E-02	kg	(Calculated)
Radium (Ra224) [Radioactive emissions to fresh water]	Activity	3,02E-01	Bq	(No statement)
Radium (Ra224) [Radioactive emissions to sea water]	Activity	1,51E-01	Bq	(No statement)
Radium (Ra226) [Radioactive emissions to air]	Activity	5,84E-01	Bq	(No statement)

Appendix 2.8
LCI Data – Tablet e-paper newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Radium (Ra226) [Radioactive emissions to fresh water]	Activity	2,14E+03	Bq	(Literature)
Radium (Ra226) [Radioactive emissions to sea water]	Activity	2,54E-01	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to air]	Activity	4,03E-02	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to fresh water]	Activity	6,04E-01	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to sea water]	Activity	3,02E-01	Bq	(No statement)
Radon (Rn220) [Radioactive emissions to air]	Activity	6,52E-05	Bq	(No statement)
Radon (Rn222) [Air]	Activity	1,87E+06	Bq	(No statement)
Radon (Rn222) [Radioactive emissions to air]	Activity	1,09E+05	Bq	(Literature)
Radon (Rn-daughter nukleade) [Radioactive emissions to air]	Activity	1,33E-13	Bq	(No statement)
Red mud (wet) (3% NaOH) [Hazardous waste for disposal]	Mass	2,47E-04	kg	Measured
Residues for incineration [Waste for disposal]	Mass	5,98E-07	kg	Calculated
Rolling tinder [Waste for recovery]	Mass	7,12E-06	kg	Calculated
Rubidium [Inorganic emissions to fresh water]	Mass	1,01E-07	kg	(No statement)
Ruthenium (Ru103) [Radioactive emissions to air]	Activity	1,41E-08	Bq	(No statement)
Ruthenium (Ru103) [Radioactive emissions to fresh water]	Activity	1,37E-05	Bq	(No statement)
Ruthenium (Ru106) [Radioactive emissions to fresh water]	Activity	1,18E-01	Bq	Calculated
Scandium [Fresh water]	Mass	4,98E-07	kg	(No statement)
Scandium [Inorganic emissions to air]	Mass	2,29E-09	kg	(Calculated)
Scandium [Inorganic emissions to fresh water]	Mass	1,20E-07	kg	(No statement)
Selenium [Fresh water]	Mass	3,92E-07	kg	(No statement)
Selenium [Heavy metals to air]	Mass	1,15E-06	kg	(Literature)
Selenium [Heavy metals to fresh water]	Mass	6,76E-07	kg	(Literature)
Selenium [Heavy metals to industrial soil]	Mass	5,22E-11	kg	(No statement)
Selenium [Heavy metals to sea water]	Mass	9,28E-10	kg	(No statement)
Sewage sludge (waste water processing) [Hazardous waste]	Mass	2,96E-04	kg	Calculated
Silicium tetrafluoride [Inorganic emissions to air]	Mass	2,99E-11	kg	(No statement)
Silver (Ag110m) [Radioactive emissions to air]	Activity	1,40E-07	Bq	(No statement)
Silver (Ag110m) [Radioactive emissions to fresh water]	Activity	1,50E-01	Bq	(Literature)
Silver [Fresh water]	Mass	3,15E-10	kg	(No statement)
Silver [Heavy metals to agricultural soil]	Mass	1,07E-11	kg	(No statement)
Silver [Heavy metals to air]	Mass	1,55E-12	kg	(No statement)
Silver [Heavy metals to fresh water]	Mass	1,65E-08	kg	(Literature)
Silver [Heavy metals to sea water]	Mass	1,81E-09	kg	(No statement)
Slag (Iron plate production) [Waste for recovery]	Mass	5,33E-02	kg	(Measured)
Slag [Hazardous waste]	Mass	2,25E-02	kg	(Literature)
Slag [Waste for recovery]	Mass	2,19E-02	kg	(Literature)
Sludge [Hazardous waste]	Mass	4,64E-02	kg	(Literature)
Sodium (Na24) [Radioactive emissions to fresh water]	Activity	4,91E-04	Bq	(No statement)
Sodium [Fresh water]	Mass	2,22E-04	kg	(No statement)
Sodium [Inorganic emissions to fresh water]	Mass	6,55E-02	kg	(Literature)
Sodium [Inorganic emissions to sea water]	Mass	9,24E-04	kg	(No statement)
Sodium chlorate [high population density]	Mass	1,62E-09	kg	(No statement)
Sodium chloride (rock salt) [Inorganic intermediate products]	Mass	7,40E-05	kg	Calculated
Sodium dichromate [high population density]	Mass	1,01E-08	kg	(No statement)
Sodium formate [high population density]	Mass	1,83E-11	kg	(No statement)
Sodium formate [Hydrocarbons to fresh water]	Mass	4,39E-11	kg	(No statement)
Sodium hypochlorite [Inorganic emissions to fresh water]	Mass	2,47E-07	kg	(Calculated)
Soil loss by erosion into water [Particles to fresh water]	Mass	7,03E-07	kg	Literature

Appendix 2.8
LCI Data – Tablet e-paper newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Solder paste waste [Hazardous waste for recovery]	Mass	1,07E-03	kg	Estimated
Solids (dissolved) [Analytical measures to fresh water]	Mass	4,09E-03	kg	(Literature)
Solids (suspended) [Fresh water]	Mass	1,86E-02	kg	(No statement)
Solids (suspended) [Particles to fresh water]	Mass	5,89E-03	kg	(Literature)
Solids (suspended) [Particles to sea water]	Mass	4,09E-04	kg	(No statement)
Steam (mp) [Thermal energy]	Mass	0,00E+00	kg	Calculated
Steam [Inorganic emissions to air]	Mass	2,17E+01	kg	(Calculated)
Steel works slag [Waste for recovery]	Mass	1,23E-04	kg	Calculated
Strontium (Sr89) [Radioactive emissions to fresh water]	Activity	2,92E-03	Bq	(No statement)
Strontium (Sr90) [Radioactive emissions to fresh water]	Activity	1,53E+02	Bq	(Literature)
Strontium (Sr90) [Radioactive emissions to sea water]	Activity	2,19E+00	Bq	(No statement)
Strontium [Fresh water]	Mass	4,22E-05	kg	(No statement)
Strontium [Heavy metals to agricultural soil]	Mass	2,89E-10	kg	(No statement)
Strontium [Heavy metals to fresh water]	Mass	4,54E-05	kg	(Literature)
Strontium [Heavy metals to industrial soil]	Mass	5,21E-08	kg	(No statement)
Strontium [Heavy metals to sea water]	Mass	1,81E-05	kg	(No statement)
Strontium [Inorganic emissions to air]	Mass	4,63E-07	kg	(Calculated)
Styrene [Group NMVOC to air]	Mass	4,73E-10	kg	(No statement)
Sulphate [Fresh water]	Mass	8,53E-03	kg	(No statement)
Sulphate [Inorganic emissions to fresh water]	Mass	2,30E-02	kg	(Literature)
Sulphate [Inorganic emissions to sea water]	Mass	2,93E-05	kg	(No statement)
Sulphide [Inorganic emissions to fresh water]	Mass	2,33E-07	kg	(Literature)
Sulphide [Inorganic emissions to sea water]	Mass	2,79E-08	kg	(No statement)
Sulphite [Inorganic emissions to fresh water]	Mass	8,29E-06	kg	(Literature)
Sulphur [Inorganic emissions to agricultural soil]	Mass	2,02E-06	kg	(No statement)
Sulphur [Inorganic emissions to fresh water]	Mass	1,65E-06	kg	(No statement)
Sulphur [Inorganic emissions to industrial soil]	Mass	3,13E-06	kg	(No statement)
Sulphur [Inorganic emissions to sea water]	Mass	1,54E-07	kg	(No statement)
Sulphur dioxide [Inorganic emissions to air]	Mass	7,08E-02	kg	(Literature)
Sulphur hexafluoride [Inorganic emissions to air]	Mass	6,86E-07	kg	(Literature)
Sulphuric acid [Inorganic emissions to air]	Mass	6,42E-08	kg	(Calculated)
Tailings [Stockpile goods] *Not followed to the grave*	Mass	7,04E+00	kg	(Literature)
Tebutam [Pesticides to agricultural soil]	Mass	2,26E-11	kg	(No statement)
Technetium (Tc99m) [Radioactive emissions to fresh water]	Activity	1,51E-03	Bq	(No statement)
Teflubenzuron [Pesticides to agricultural soil]	Mass	8,19E-12	kg	(No statement)
Tellurium (Te123m) [Radioactive emissions to fresh water]	Activity	3,18E-03	Bq	(No statement)
Tellurium (Te132) [Radioactive emissions to fresh water]	Activity	3,75E-06	Bq	(No statement)
Tetrafluoromethane [Halogenated organic emissions to air]	Mass	2,82E-06	kg	Measured
Thallium [Fresh water]	Mass	4,51E-08	kg	(No statement)
Thallium [Heavy metals to air]	Mass	1,11E-09	kg	(Calculated)
Thallium [Heavy metals to fresh water]	Mass	1,56E-08	kg	(Measured)
Thorium (Th228) [Radioactive emissions to air]	Activity	1,98E-02	Bq	(No statement)
Thorium (Th228) [Radioactive emissions to fresh water]	Activity	1,21E+00	Bq	(No statement)
Thorium (Th228) [Radioactive emissions to sea water]	Activity	6,04E-01	Bq	(No statement)
Thorium (Th230) [Radioactive emissions to air]	Activity	1,54E+01	Bq	(No statement)
Thorium (Th230) [Radioactive emissions to fresh water]	Activity	3,64E+01	Bq	(No statement)
Thorium (Th232) [Radioactive emissions to air]	Activity	3,08E-02	Bq	(No statement)
Thorium (Th232) [Radioactive emissions to fresh water]	Activity	5,42E-02	Bq	(No statement)
Thorium (Th234) [Radioactive emissions to air]	Activity	1,44E-02	Bq	(No statement)
Thorium (Th234) [Radioactive emissions to fresh water]	Activity	2,67E-01	Bq	(No statement)

Appendix 2.8
LCI Data – Tablet e-paper newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Tin [Fresh water]	Mass	7,42E-06	kg	(No statement)
Tin [Heavy metals to agricultural soil]	Mass	7,97E-10	kg	(No statement)
Tin [Heavy metals to air]	Mass	1,98E-06	kg	(Calculated)
Tin [Heavy metals to fresh water]	Mass	1,81E-08	kg	(Literature)
Titanium [Heavy metals to agricultural soil]	Mass	2,10E-07	kg	(No statement)
Titanium [Heavy metals to air]	Mass	4,59E-07	kg	(Calculated)
Titanium [Heavy metals to fresh water]	Mass	7,22E-07	kg	(Literature)
Titanium [Heavy metals to sea water]	Mass	5,13E-10	kg	(No statement)
Toluene (methyl benzene) [Group NMVOC to air]	Mass	1,61E-05	kg	(Literature)
Toluene (methyl benzene) [Hydrocarbons to fresh water]	Mass	2,52E-06	kg	(Literature)
Toluene (methyl benzene) [Hydrocarbons to sea water]	Mass	4,30E-07	kg	(No statement)
Top Cover (E-Paper) [Flows]	Mass	1,48E-01	kg	(No statement)
Total dissolved organic bounded carbon [Analytical measures to fresh water]	Mass	5,63E-04	kg	(Literature)
Total dissolved organic bounded carbon [Analytical measures to sea water]	Mass	1,42E-04	kg	(No statement)
Total organic bounded carbon [Analytical measures to fresh water]	Mass	3,74E-03	kg	(Literature)
Total organic bounded carbon [Analytical measures to sea water]	Mass	1,42E-04	kg	(No statement)
Total organic carbon, TOC (Ecoinvent) [Fresh water]	Mass	4,70E-04	kg	(No statement)
Treatment residue (mineral) [Stockpile goods]	Mass	1,31E-02	kg	(Calculated)
Tributyltinoxide [Pesticides to sea water]	Mass	7,16E-08	kg	(No statement)
Trichloromethane (chloroform) [Halogenated organic emissions to air]	Mass	1,10E-09	kg	(No statement)
Trichloromethane (chloroform) [Halogenated organic emissions to fresh water]	Mass	1,57E-15	kg	(No statement)
Triethylene glycol [Hydrocarbons to sea water]	Mass	1,51E-07	kg	(No statement)
Tungsten [Fresh water]	Mass	4,04E-07	kg	(No statement)
Tungsten [Heavy metals to fresh water]	Mass	2,48E-07	kg	(No statement)
Unused primary energy from solar energy [Other emissions to air]	Mass	3,28E-10	kg	Estimated
Uranium (total) [Radioactive emissions to air]	Activity	1,88E+00	Bq	(Literature)
Uranium (U234) [Radioactive emissions to air]	Activity	4,48E-01	Bq	(Literature)
Uranium (U234) [Radioactive emissions to fresh water]	Activity	3,20E-01	Bq	(No statement)
Uranium (U235) [Radioactive emissions to air]	Activity	2,17E-02	Bq	(Literature)
Uranium (U235) [Radioactive emissions to fresh water]	Activity	5,28E-01	Bq	(No statement)
Uranium (U238) [Radioactive emissions to air]	Activity	7,93E-01	Bq	(Literature)
Uranium (U238) [Radioactive emissions to fresh water]	Activity	9,19E-01	Bq	(No statement)
Uranium (U238) [Radioactive emissions to sea water]	Activity	5,82E-03	Bq	(No statement)
Uranium [Radioactive emissions to fresh water]	Activity	5,16E+01	Bq	(Estimated)
Uranium depleted [Radioactive waste]	Mass	7,58E-05	kg	(Calculated)
Uranium spent as residue [Radioactive waste]	Mass	9,65E-10	kg	(Calculated)
Used air [Other emissions to air]	Mass	2,29E+00	kg	(Measured)
Vanadium [Fresh water]	Mass	7,17E-06	kg	(No statement)
Vanadium [Heavy metals to agricultural soil]	Mass	6,02E-09	kg	(No statement)
Vanadium [Heavy metals to air]	Mass	8,12E-06	kg	(Literature)
Vanadium [Heavy metals to fresh water]	Mass	1,38E-06	kg	(Literature)
Vanadium [Heavy metals to sea water]	Mass	1,85E-09	kg	(No statement)
Waste heat [Fresh water]	Energy	5,65E-03	MJ	(No statement)
Waste heat [Other emissions to air]	Energy	1,11E+02	MJ	(Literature)
Waste heat [Other emissions to fresh water]	Energy	1,57E+01	MJ	(Calculated)
Waste paper [Waste for recovery]	Mass	4,26E-05	kg	Measured
Waste radioactive [Radioactive waste]	Mass	6,42E-05	kg	(Literature)

Appendix 2.8
LCI Data – Tablet e-paper newspaper, European scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Waste water [Other emissions to fresh water]	Mass	3,78E+02	kg	(Measured)
Waste water processing residue [Hazardous waste for recovery]	Mass	2,04E-01	kg	Literature
Water (desalinated; deionized) [Operating materials]	Mass	6,59E-04	kg	Calculated
Vinyl chloride (VCM; chloroethene) [Halogenated organic emissions to air]	Mass	1,02E-08	kg	(No statement)
Vinyl chloride (VCM; chloroethene) [Halogenated organic emissions to fresh water]	Mass	2,19E-10	kg	(No statement)
VOC (unspecified) [Organic emissions to air (group VOC)]	Mass	5,76E-04	kg	(Literature)
VOC [Organic emissions to fresh water]	Mass	2,78E-06	kg	(No statement)
VOC [Organic emissions to sea water]	Mass	1,06E-06	kg	(No statement)
Volatile fission products (inert gases;iodine;C14) [Radioactive waste]	Mass	2,29E-09	kg	(Estimated)
Xenon (Xe131m) [Radioactive emissions to air]	Activity	6,75E+00	Bq	(Literature)
Xenon (Xe133) [Radioactive emissions to air]	Activity	6,61E+02	Bq	(Literature)
Xenon (Xe133m) [Radioactive emissions to air]	Activity	5,06E+00	Bq	(Literature)
Xenon (Xe135) [Radioactive emissions to air]	Activity	2,05E+02	Bq	(Literature)
Xenon (Xe135m) [Radioactive emissions to air]	Activity	5,43E+01	Bq	(Literature)
Xenon (Xe137) [Radioactive emissions to air]	Activity	4,76E-01	Bq	(Literature)
Xenon (Xe138) [Radioactive emissions to air]	Activity	1,07E+01	Bq	(Literature)
Xylene (dimethyl benzene) [Group NMVOC to air]	Mass	1,27E-04	kg	(Calculated)
Xylene (isomers; dimethyl benzene) [Hydrocarbons to fresh water]	Mass	1,40E-05	kg	(Literature)
Xylene (isomers; dimethyl benzene) [Hydrocarbons to sea water]	Mass	3,57E-07	kg	(No statement)
Xylene (meta-Xylene; 1,3-Dimethylbenzene) [Group NMVOC to air]	Mass	1,37E-07	kg	(No statement)
Zinc (Zn65) [Radioactive emissions to air]	Activity	2,70E-06	Bq	(No statement)
Zinc (Zn65) [Radioactive emissions to fresh water]	Activity	6,65E-03	Bq	(No statement)
Zinc [Fresh water]	Mass	9,31E-06	kg	(No statement)
Zinc [Heavy metals to agricultural soil]	Mass	6,50E-07	kg	(No statement)
Zinc [Heavy metals to air]	Mass	1,27E-05	kg	(Literature)
Zinc [Heavy metals to fresh water]	Mass	5,50E-06	kg	(Literature)
Zinc [Heavy metals to industrial soil]	Mass	1,55E-05	kg	(Measured)
Zinc [Heavy metals to sea water]	Mass	5,74E-06	kg	(No statement)
Zinc sulphate [Inorganic emissions to air]	Mass	2,07E-08	kg	Measured
Zirconium (Zr) [Air]	Mass	2,63E-11	kg	(No statement)
Zirconium (Zr95) [Radioactive emissions to air]	Activity	2,64E-06	Bq	(No statement)
Zirconium (Zr95) [Radioactive emissions to fresh water]	Activity	7,70E-05	Bq	(No statement)

Appendix 2.9 LCI Data – Tablet e-paper newspaper, Swedish scenario

In the tables below the LCI data for the studied system "Tablet e-paper newspaper Swedish scenario" are presented. The data are divided as inputs to the system and outputs from the system.

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Air [Renewable resources]	Mass	4,11E+01	kg	(Literature)
Aluminum [Non renewable elements]	Mass	6,86E-04	kg	(No statement)
Ammonium nitrate [Inorganic intermediate products]	Mass	4,24E-07	kg	Estimated
Antimonite [Non renewable resources]	Mass	9,74E-12	kg	(No statement)
Barium sulphate [Non renewable resources]	Mass	3,46E-04	kg	(No statement)
Basalt [Non renewable resources]	Mass	5,25E-05	kg	(No statement)
Bauxite [Non renewable resources]	Mass	2,90E-02	kg	(Calculated)
Bentonite [Non renewable resources]	Mass	5,57E-04	kg	(Literature)
Blast furnace dust [Organic intermediate products]	Mass	7,66E-08	kg	Calculated
Borax [Non renewable resources]	Mass	2,37E-08	kg	(No statement)
Calcium chloride [Non renewable resources]	Mass	4,62E-10	kg	Literature
Carbon dioxide [Renewable resources]	Mass	6,38E-01	kg	Literature
Catalyst [Operating materials]	Mass	3,99E-09	kg	Calculated
Chromium [Non renewable elements]	Mass	1,32E-04	kg	(No statement)
Chromium ore [Non renewable resources]	Mass	1,36E-21	kg	Calculated
Chrysotile [Non renewable resources]	Mass	1,78E-08	kg	(No statement)
Cinnabar [Non renewable resources]	Mass	1,85E-09	kg	(No statement)
Circuit material (Fe carrier) [Metals]	Mass	1,23E-07	kg	Calculated
Clay [Non renewable resources]	Mass	7,69E-03	kg	(No statement)
Cobalt [Non renewable elements]	Mass	3,05E-10	kg	(No statement)
Colemanite ore [Non renewable resources]	Mass	6,93E-03	kg	Calculated
Cooling water [Operating materials]	Mass	6,02E+01	kg	(Measured)
Copper [Non renewable elements]	Mass	4,01E-04	kg	(No statement)
Copper ore (0.14%) [Non renewable resources]	Mass	4,95E+00	kg	(Measured)
Copper ore (0.2%) [Non renewable resources]	Mass	1,44E-02	kg	Calculated
Copper ore (0.3%) [Non renewable resources]	Mass	2,12E-07	kg	Estimated
Copper ore (2%) [Non renewable resources]	Mass	1,26E-01	kg	Calculated
Copper ore (4%) [Non renewable resources]	Mass	7,88E-04	kg	Calculated
Copper scrap [Waste for recovery]	Mass	4,23E-03	kg	Estimated
Copper scrap prepared [Metals] *Not followed to the cradle*	Mass	1,10E-03	kg	Calculated
Crude oil [Crude oil (resource)]	Mass	8,13E-02	kg	(Literature)
Crude oil Algeria [Crude oil (resource)]	Mass	1,31E-02	kg	(Literature)
Crude oil Angola [Crude oil (resource)]	Mass	4,94E-03	kg	(Estimated)
Crude oil Argentina [Crude oil (resource)]	Mass	6,01E-05	kg	Literature
Crude oil Australia [Crude oil (resource)]	Mass	1,75E-03	kg	(Estimated)
Crude oil Brazil [Crude oil (resource)]	Mass	1,30E-03	kg	Literature
Crude oil Brunei [Crude oil (resource)]	Mass	3,40E-12	kg	Estimated
Crude oil Cameroon [Crude oil (resource)]	Mass	2,87E-03	kg	(Estimated)
Crude oil Canada [Crude oil (resource)]	Mass	7,24E-03	kg	(Literature)
Crude oil Central Africa [Crude oil (resource)]	Mass	8,02E-04	kg	(Calculated)
Crude oil Central America [Crude oil (resource)]	Mass	4,65E-04	kg	(Calculated)
Crude oil China [Crude oil (resource)]	Mass	3,06E-03	kg	(Calculated)
Crude oil CIS [Crude oil (resource)]	Mass	5,70E-02	kg	(Literature)

Appendix 2.9
LCI Data – Tablet e-paper newspaper, Swedish scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Crude oil Colombia [Crude oil (resource)]	Mass	1,46E-06	kg	Literature
Crude oil Denmark [Crude oil (resource)]	Mass	2,86E-04	kg	(Literature)
Crude oil Egypt [Crude oil (resource)]	Mass	8,83E-03	kg	(Estimated)
Crude oil France [Crude oil (resource)]	Mass	1,85E-04	kg	(Literature)
Crude oil free wellhead [Crude oil (resource)]	Mass	-8,94E-06	kg	Literature
Crude oil Gabon [Crude oil (resource)]	Mass	4,30E-04	kg	(Estimated)
Crude oil Germany [Crude oil (resource)]	Mass	4,67E-03	kg	(Literature)
Crude oil Indonesia [Crude oil (resource)]	Mass	4,02E-03	kg	(Estimated)
Crude oil Iran [Crude oil (resource)]	Mass	3,91E-02	kg	(Estimated)
Crude oil Italy [Crude oil (resource)]	Mass	9,00E-03	kg	(Literature)
Crude oil Kuwait [Crude oil (resource)]	Mass	4,11E-03	kg	(Estimated)
Crude oil Libya [Crude oil (resource)]	Mass	6,56E-02	kg	(Literature)
Crude oil Mexico [Crude oil (resource)]	Mass	3,23E-03	kg	(Literature)
Crude oil Middle East [Crude oil (resource)]	Mass	2,03E-03	kg	(Calculated)
Crude oil Netherlands [Crude oil (resource)]	Mass	4,76E-04	kg	(Literature)
Crude oil New Zealand [Crude oil (resource)]	Mass	5,55E-05	kg	(Estimated)
Crude oil Nigeria [Crude oil (resource)]	Mass	1,44E-02	kg	(Estimated)
Crude oil North Africa [Crude oil (resource)]	Mass	1,58E-03	kg	(Calculated)
Crude oil Norway [Crude oil (resource)]	Mass	3,06E-02	kg	(Literature)
Crude oil Oman [Crude oil (resource)]	Mass	1,42E-03	kg	(Estimated)
Crude oil Qatar [Crude oil (resource)]	Mass	1,48E-03	kg	(Estimated)
Crude oil Saudi Arabia [Crude oil (resource)]	Mass	5,09E-02	kg	(Estimated)
Crude oil Tunisia [Crude oil (resource)]	Mass	4,26E-04	kg	(Literature)
Crude oil United Arab Emirates [Crude oil (resource)]	Mass	5,55E-03	kg	(Estimated)
Crude oil United Kingdom [Crude oil (resource)]	Mass	3,98E-02	kg	(Literature)
Crude oil USA [Crude oil (resource)]	Mass	4,12E-05	kg	Literature
Crude oil Venezuela [Crude oil (resource)]	Mass	9,22E-03	kg	(Literature)
Diatomite [Non renewable resources]	Mass	9,37E-11	kg	(No statement)
Dolomite [Non renewable resources]	Mass	1,86E-05	kg	(Literature)
Energy, calorific value, in organic substance [biotic]	Energy ren.	7,07E+00	MJ	(No statement)
Feldspar (aluminum silicates) [Non renewable resources]	Mass	1,22E-11	kg	(No statement)
Fluorine [Non renewable elements]	Mass	6,68E-07	kg	(No statement)
Fluorspar (calcium fluoride; fluorite) [Non renewable resources]	Mass	1,41E-03	kg	Calculated
Granite [Non renewable resources]	Mass	7,58E-08	kg	(No statement)
Gypsum (natural gypsum) [Non renewable resources]	Mass	7,28E-08	kg	(No statement)
Hard coal [Hard coal (resource)]	Mass	3,20E-01	kg	(Literature)
Hard coal Australia [Hard coal (resource)]	Mass	3,97E-02	kg	(Calculated)
Hard coal Belgium [Hard coal (resource)]	Mass	2,31E-03	kg	(Calculated)
Hard coal Brazil [Hard coal (resource)]	Mass	2,07E-04	kg	(Estimated)
Hard coal Canada [Hard coal (resource)]	Mass	1,11E-02	kg	(Calculated)
Hard coal China [Hard coal (resource)]	Mass	7,15E-02	kg	(Calculated)
Hard coal CIS [Hard coal (resource)]	Mass	1,47E-02	kg	(Calculated)
Hard coal Colombia [Hard coal (resource)]	Mass	2,31E-02	kg	(Calculated)
Hard coal Czech Republic [Hard coal (resource)]	Mass	8,21E-03	kg	(Calculated)
Hard coal France [Hard coal (resource)]	Mass	3,03E-02	kg	(Calculated)
Hard coal Germany [Hard coal (resource)]	Mass	2,41E-01	kg	(Calculated)
Hard coal Indonesia [Hard coal (resource)]	Mass	1,50E-02	kg	(Calculated)
Hard coal Japan [Hard coal (resource)]	Mass	3,25E-03	kg	(Calculated)
Hard coal Poland [Hard coal (resource)]	Mass	3,54E-02	kg	(Calculated)
Hard coal Portugal [Hard coal (resource)]	Mass	4,50E-04	kg	(Estimated)
Hard coal South Africa [Hard coal (resource)]	Mass	5,74E-01	kg	(Calculated)

Appendix 2.9
LCI Data – Tablet e-paper newspaper, Swedish scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Hard coal Spain [Hard coal (resource)]	Mass	5,95E-02	kg	(Calculated)
Hard coal United Kingdom [Hard coal (resource)]	Mass	6,73E-03	kg	(Calculated)
Hard coal USA [Hard coal (resource)]	Mass	1,22E-01	kg	(Calculated)
Hard coal Venezuela [Hard coal (resource)]	Mass	6,70E-03	kg	(Calculated)
Heavy spar (barytes) [Non renewable resources]	Mass	4,82E-03	kg	(Literature)
Inert rock [Non renewable resources]	Mass	1,71E+01	kg	(Calculated)
Iron [Non renewable elements]	Mass	5,92E-03	kg	(Literature)
Iron ore (65%) [Non renewable resources]	Mass	4,58E-04	kg	(Calculated)
Iron ore [Non renewable resources]	Mass	2,44E-03	kg	(Calculated)
Kaolin ore [Non renewable resources]	Mass	1,24E-02	kg	Measured
Kaolinite (24% in ore as mined) [Non renewable resources]	Mass	3,81E-06	kg	(No statement)
Kieserite (25% in ore as mined) [Non renewable resources]	Mass	2,96E-08	kg	(No statement)
Lead - zinc ore (4.6%-0.6%) [Non renewable resources]	Mass	2,39E-02	kg	Calculated
Lead [Non renewable elements]	Mass	4,11E-04	kg	(No statement)
Lead ore [Non renewable resources]	Mass	3,58E-03	kg	Estimated
Lignite [Lignite (resource)]	Mass	2,73E-02	kg	(Literature)
Lignite Australia [Lignite (resource)]	Mass	2,04E-03	kg	Literature
Lignite Austria [Lignite (resource)]	Mass	6,21E-06	kg	(Calculated)
Lignite France [Lignite (resource)]	Mass	3,49E-06	kg	Calculated
Lignite Germany (Lausitz) [Lignite (resource)]	Mass	2,61E-04	kg	Calculated
Lignite Germany (Rheinisch) [Lignite (resource)]	Mass	2,16E-02	kg	Calculated
Lignite Germany [Lignite (resource)]	Mass	1,02E+00	kg	(Literature)
Lignite Greece [Lignite (resource)]	Mass	5,66E-01	kg	Literature
Lignite Spain [Lignite (resource)]	Mass	1,14E-01	kg	Literature
Lignite USA [Lignite (resource)]	Mass	2,19E-04	kg	Literature
Limestone (calcium carbonate) [Non renewable resources]	Mass	1,17E-01	kg	(Literature)
Lithiumerz (R.O.M) [Non renewable resources]	Mass	2,65E-04	kg	Calculated
Magnesit (Magnesium carbonate) [Non renewable resources]	Mass	6,94E-05	kg	Calculated
Magnesium [Non renewable elements]	Mass	7,71E-09	kg	(No statement)
Magnesium carbonate [Inorganic intermediate products]	Mass	2,96E-03	kg	Estimated
Manganese [Non renewable elements]	Mass	1,92E-05	kg	(No statement)
Manganese ore (R.O.M.) [Non renewable resources]	Mass	2,26E-02	kg	Calculated
Molybdenum [Non renewable elements]	Mass	2,60E-05	kg	(No statement)
Natural Aggregate [Non renewable resources]	Mass	1,93E-01	kg	Calculated
Natural gas [Natural gas (resource)]	Mass	1,16E-01	kg	(Literature)
Natural gas Algeria [Natural gas (resource)]	Mass	3,38E-02	kg	(Literature)
Natural gas Angola [Natural gas (resource)]	Mass	4,00E-04	kg	(Estimated)
Natural gas Argentina [Natural gas (resource)]	Mass	1,97E-06	kg	Literature
Natural gas Australia [Natural gas (resource)]	Mass	7,25E-03	kg	(Literature)
Natural gas Brazil [Natural gas (resource)]	Mass	4,59E-04	kg	(Literature)
Natural gas Brunei [Natural gas (resource)]	Mass	5,10E-03	kg	(Estimated)
Natural gas Cameroon [Natural gas (resource)]	Mass	2,33E-04	kg	(Estimated)
Natural gas Canada [Natural gas (resource)]	Mass	2,51E-04	kg	(Literature)
Natural gas China [Natural gas (resource)]	Mass	1,74E-04	kg	(Calculated)
Natural gas CIS [Natural gas (resource)]	Mass	3,40E-01	kg	(Literature)
Natural gas Colombia [Natural gas (resource)]	Mass	5,54E-08	kg	Literature
Natural gas Denmark [Natural gas (resource)]	Mass	9,34E-03	kg	(Estimated)
Natural gas Egypt [Natural gas (resource)]	Mass	7,16E-04	kg	(Estimated)
Natural gas France [Natural gas (resource)]	Mass	1,73E-03	kg	(Estimated)
Natural gas Gabon [Natural gas (resource)]	Mass	3,57E-05	kg	(Estimated)

Appendix 2.9
LCI Data – Tablet e-paper newspaper, Swedish scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Natural gas Germany [Natural gas (resource)]	Mass	1,85E-01	kg	(Literature)
Natural gas Indonesia [Natural gas (resource)]	Mass	1,62E-02	kg	(Estimated)
Natural gas Iran [Natural gas (resource)]	Mass	1,46E-03	kg	(Estimated)
Natural gas Italy [Natural gas (resource)]	Mass	1,90E-02	kg	(Literature)
Natural gas Japan [Natural gas (resource)]	Mass	1,61E-03	kg	(Estimated)
Natural gas Kuwait [Natural gas (resource)]	Mass	1,54E-04	kg	(Estimated)
Natural gas Libyan [Natural gas (resource)]	Mass	6,58E-03	kg	(Literature)
Natural gas Malaysia [Natural gas (resource)]	Mass	7,21E-03	kg	(Estimated)
Natural gas Mexico [Natural gas (resource)]	Mass	1,06E-04	kg	(Literature)
Natural gas Netherlands [Natural gas (resource)]	Mass	2,99E-01	kg	(Literature)
Natural gas New Zealand [Natural gas (resource)]	Mass	1,23E-06	kg	(Estimated)
Natural gas Nigeria [Natural gas (resource)]	Mass	1,17E-03	kg	(Estimated)
Natural gas Norway [Natural gas (resource)]	Mass	1,43E-01	kg	(Literature)
Natural gas Oman [Natural gas (resource)]	Mass	5,31E-05	kg	(Estimated)
Natural gas Qatar [Natural gas (resource)]	Mass	5,52E-05	kg	(Estimated)
Natural gas Saudi Arabia [Natural gas (resource)]	Mass	1,90E-03	kg	(Estimated)
Natural gas Spain [Natural gas (resource)]	Mass	3,40E-04	kg	(Estimated)
Natural gas Tunisia [Natural gas (resource)]	Mass	3,45E-05	kg	(Literature)
Natural gas United Arab Emirates [Natural gas (resource)]	Mass	3,86E-03	kg	(Estimated)
Natural gas United Kingdom [Natural gas (resource)]	Mass	7,01E-03	kg	(Estimated)
Natural gas USA [Natural gas (resource)]	Mass	1,43E-03	kg	(Literature)
Natural gas Venezuela [Natural gas (resource)]	Mass	5,42E-04	kg	(Literature)
Nickel [Non renewable elements]	Mass	3,58E-04	kg	(No statement)
Nickel ore (1.6%) [Non renewable resources]	Mass	1,48E-01	kg	(Measured)
Nickel ore [Non renewable resources]	Mass	5,08E-02	kg	(No statement)
Nitrogen [Renewable resources]	Mass	2,76E-06	kg	(Literature)
Occupation, arable, non-irrigated [Hemerobie ecoinvent]	Areatime	6,11E-05	m2*yr	(No statement)
Occupation, construction site [Hemerobie ecoinvent]	Areatime	4,04E-05	m2*yr	(No statement)
Occupation, dump site [Hemerobie ecoinvent]	Areatime	2,03E-03	m2*yr	(No statement)
Occupation, dump site, benthos [Hemerobie ecoinvent]	Areatime	4,43E-05	m2*yr	(No statement)
Occupation, forest, intensive [Hemerobie ecoinvent]	Areatime	7,99E-05	m2*yr	(No statement)
Occupation, forest, intensive, normal [Hemerobie ecoinvent]	Areatime	1,27E-01	m2*yr	(No statement)
Occupation, industrial area [Hemerobie ecoinvent]	Areatime	1,29E-03	m2*yr	(No statement)
Occupation, industrial area, benthos [Hemerobie ecoinvent]	Areatime	4,50E-07	m2*yr	(No statement)
Occupation, industrial area, built up [Hemerobie ecoinvent]	Areatime	1,72E-04	m2*yr	(No statement)
Occupation, industrial area, vegetation [Hemerobie ecoinvent]	Areatime	1,53E-04	m2*yr	(No statement)
Occupation, mineral extraction site [Hemerobie ecoinvent]	Areatime	1,37E-03	m2*yr	(No statement)
Occupation, permanent crop, fruit, intensive [Hemerobie ecoinvent]	Areatime	2,61E-06	m2*yr	(No statement)
Occupation, shrub land, sclerophyllous [Hemerobie ecoinvent]	Areatime	3,55E-05	m2*yr	(No statement)
Occupation, traffic area, rail embankment [Hemerobie ecoinvent]	Areatime	5,33E-05	m2*yr	(No statement)
Occupation, traffic area, rail network [Hemerobie ecoinvent]	Areatime	5,89E-05	m2*yr	(No statement)
Occupation, traffic area, road embankment [Hemerobie ecoinvent]	Areatime	1,29E-03	m2*yr	(No statement)
Occupation, traffic area, road network [Hemerobie ecoinvent]	Areatime	5,17E-04	m2*yr	(No statement)

Appendix 2.9
LCI Data – Tablet e-paper newspaper, Swedish scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Occupation, urban, discontinuously built [Hemerobie ecoinvent]	Areatime	1,16E-07	m2*yr	(No statement)
Occupation, water bodies, artificial [Hemerobie ecoinvent]	Areatime	2,95E-02	m2*yr	(No statement)
Occupation, water courses, artificial [Hemerobie ecoinvent]	Areatime	6,19E-03	m2*yr	(No statement)
Olivine [Non renewable resources]	Mass	1,64E-09	kg	(No statement)
Oxygen [Renewable resources]	Mass	2,82E-07	kg	Literature
Palladium [Non renewable elements]	Mass	2,09E-10	kg	(No statement)
Peat [Renewable resources]	Mass	8,56E-02	kg	(No statement)
Personal computer [Flows] *Not followed to the cradle*	Number of pieces	5,56E-03	pcs.	Calculated
Phosphate ore [Non renewable resources]	Mass	2,36E-07	kg	(Estimated)
Phosphorus [Non renewable elements]	Mass	2,70E-06	kg	(No statement)
Pit gas [Natural gas (resource)]	Mass	1,22E-02	kg	(Literature)
Platinum [Non renewable elements]	Mass	3,07E-10	kg	(No statement)
Potassium chloride [Non renewable resources]	Mass	1,93E-08	kg	(Literature)
Precious metal ore (R.O.M) [Non renewable resources]	Mass	4,24E+00	kg	(No statement)
Primary energy from geothermics [Renewable energy resources]	Energy ren.	1,33E-08	MJ	Estimated
Primary energy from hydro power (BUWAL) [Renewable energy resources]	Energy ren.	-6,39E-04	MJ	Literature
Primary energy from hydro power [Renewable energy resources]	Energy ren.	2,96E+01	MJ	(Literature)
Primary energy from solar energy [Renewable energy resources]	Energy ren.	2,28E-04	MJ	Estimated
Primary energy from wind power [Renewable energy resources]	Energy ren.	1,56E+00	MJ	Calculated
Process and cooling water [Operating materials]	Mass	7,41E-09	kg	Literature
Process water [Operating materials]	Mass	8,06E+01	kg	(Measured)
Quartz sand (silica sand; silicon dioxide) [Non renewable resources]	Mass	2,25E-02	kg	(Literature)
Raw brown coal (BUWAL) [Lignite (resource)]	Mass	-1,05E-06	kg	Literature
Raw hard coal (BUWAL) [Hard coal (resource)]	Mass	-9,07E-07	kg	Literature
Raw natural gas (BUWAL) [Natural gas (resource)]	Mass	-1,49E-06	kg	Literature
Renewable fuels [Renewable energy resources]	Mass	5,21E-04	kg	(Estimated)
Rhenium [Non renewable elements]	Mass	1,81E-12	kg	(No statement)
Rhodium [Non renewable elements]	Mass	5,79E-12	kg	(No statement)
Rutile (titanium ore) [Non renewable resources]	Mass	5,95E-12	kg	(No statement)
sand [Non renewable resources]	Mass	6,91E-06	kg	(No statement)
Silver [Non renewable elements]	Mass	4,96E-11	kg	(No statement)
Slate [Non renewable resources]	Mass	9,46E-09	kg	(No statement)
Sodium chloride (rock salt) [Non renewable resources]	Mass	2,87E-01	kg	(Literature)
Sodium sulphate [Non renewable resources]	Mass	9,87E-05	kg	Literature
Soil [Non renewable resources]	Mass	2,62E-02	kg	(Calculated)
Steel scrap (St) [Waste for recovery]	Mass	2,14E-04	kg	Calculated
Sulphite [Inorganic emissions to sea water]	Mass	7,60E-17	kg	(No statement)
Sulphur (bonded) [Non renewable resources]	Mass	2,93E-07	kg	(Literature)
Sulphur [Non renewable elements]	Mass	3,83E-06	kg	(Literature)
Sylvite (25% in Sylvinite) [Non renewable resources]	Mass	2,24E-06	kg	(No statement)
Talc [Non renewable resources]	Mass	2,44E-07	kg	(No statement)
Tall oil (raw product) [Organic intermediate products]	Mass	1,24E-04	kg	(No statement)
Tin [Non renewable elements]	Mass	2,97E-07	kg	(No statement)
Tin ore [Non renewable resources]	Mass	9,86E-03	kg	Estimated
Titanium dioxide [Non renewable resources]	Mass	4,03E-05	kg	(No statement)

Appendix 2.9
LCI Data – Tablet e-paper newspaper, Swedish scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
Titanium ore [Non renewable resources]	Mass	1,57E-05	kg	(No statement)
Transformation, from arable [Hemerobie ecoinvent]	Area	2,88E-06	sqm	(No statement)
Transformation, from arable, non-irrigated [Hemerobie ecoinvent]	Area	1,13E-04	sqm	(No statement)
Transformation, from arable, non-irrigated, fallow [Hemerobie ecoinvent]	Area	4,42E-08	sqm	(No statement)
Transformation, from dump site, inert material landfill [Hemerobie ecoinvent]	Area	6,20E-06	sqm	(No statement)
Transformation, from dump site, residual material landfill [Hemerobie ecoinvent]	Area	5,50E-07	sqm	(No statement)
Transformation, from dump site, sanitary landfill [Hemerobie ecoinvent]	Area	2,01E-07	sqm	(No statement)
Transformation, from dump site, slag compartment [Hemerobie ecoinvent]	Area	1,46E-07	sqm	(No statement)
Transformation, from forest [Hemerobie ecoinvent]	Area	8,44E-05	sqm	(No statement)
Transformation, from forest, extensive [Hemerobie ecoinvent]	Area	9,64E-04	sqm	(No statement)
Transformation, from industrial area [Hemerobie ecoinvent]	Area	4,28E-06	sqm	(No statement)
Transformation, from industrial area, benthos [Hemerobie ecoinvent]	Area	5,26E-09	sqm	(No statement)
Transformation, from industrial area, built up [Hemerobie ecoinvent]	Area	6,47E-10	sqm	(No statement)
Transformation, from industrial area, vegetation [Hemerobie ecoinvent]	Area	1,10E-09	sqm	(No statement)
Transformation, from mineral extraction site [Hemerobie ecoinvent]	Area	2,21E-05	sqm	(No statement)
Transformation, from pasture and meadow [Hemerobie ecoinvent]	Area	5,28E-05	sqm	(No statement)
Transformation, from pasture and meadow, intensive [Hemerobie ecoinvent]	Area	9,10E-08	sqm	(No statement)
Transformation, from sea and ocean [Hemerobie ecoinvent]	Area	4,43E-05	sqm	(No statement)
Transformation, from shrub land, sclerophyllous [Hemerobie ecoinvent]	Area	4,49E-05	sqm	(No statement)
Transformation, from unknown [Hemerobie ecoinvent]	Area	3,19E-04	sqm	(No statement)
Transformation, to arable [Hemerobie ecoinvent]	Area	1,21E-05	sqm	(No statement)
Transformation, to arable, non-irrigated [Hemerobie ecoinvent]	Area	1,13E-04	sqm	(No statement)
Transformation, to arable, non-irrigated, fallow [Hemerobie ecoinvent]	Area	7,58E-08	sqm	(No statement)
Transformation, to dump site [Hemerobie ecoinvent]	Area	1,60E-05	sqm	(No statement)
Transformation, to dump site, benthos [Hemerobie ecoinvent]	Area	4,43E-05	sqm	(No statement)
Transformation, to dump site, inert material landfill [Hemerobie ecoinvent]	Area	6,20E-06	sqm	(No statement)
Transformation, to dump site, residual material landfill [Hemerobie ecoinvent]	Area	5,50E-07	sqm	(No statement)
Transformation, to dump site, sanitary landfill [Hemerobie ecoinvent]	Area	2,01E-07	sqm	(No statement)
Transformation, to dump site, slag compartment [Hemerobie ecoinvent]	Area	1,46E-07	sqm	(No statement)
Transformation, to forest [Hemerobie ecoinvent]	Area	2,04E-05	sqm	(No statement)
Transformation, to forest, intensive [Hemerobie ecoinvent]	Area	5,32E-07	sqm	(No statement)
Transformation, to forest, intensive, normal [Hemerobie ecoinvent]	Area	9,54E-04	sqm	(No statement)
Transformation, to heterogeneous, agricultural	Area	4,27E-06	sqm	(No statement)

Appendix 2.9
LCI Data – Tablet e-paper newspaper, Swedish scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
[Hemerobie ecoinvent]				
Transformation, to industrial area [Hemerobie ecoinvent]	Area	2,44E-05	sqm	(No statement)
Transformation, to industrial area, benthos [Hemerobie ecoinvent]	Area	2,97E-08	sqm	(No statement)
Transformation, to industrial area, built up [Hemerobie ecoinvent]	Area	7,41E-06	sqm	(No statement)
Transformation, to industrial area, vegetation [Hemerobie ecoinvent]	Area	4,09E-06	sqm	(No statement)
Transformation, to mineral extraction site [Hemerobie ecoinvent]	Area	1,43E-04	sqm	(No statement)
Transformation, to pasture and meadow [Hemerobie ecoinvent]	Area	3,26E-07	sqm	(No statement)
Transformation, to permanent crop, fruit, intensive [Hemerobie ecoinvent]	Area	4,40E-08	sqm	(No statement)
Transformation, to sea and ocean [Hemerobie ecoinvent]	Area	5,26E-09	sqm	(No statement)
Transformation, to shrub land, sclerophyllous [Hemerobie ecoinvent]	Area	7,10E-06	sqm	(No statement)
Transformation, to traffic area, rail embankment [Hemerobie ecoinvent]	Area	1,24E-07	sqm	(No statement)
Transformation, to traffic area, rail network [Hemerobie ecoinvent]	Area	1,36E-07	sqm	(No statement)
Transformation, to traffic area, road embankment [Hemerobie ecoinvent]	Area	9,52E-06	sqm	(No statement)
Transformation, to traffic area, road network [Hemerobie ecoinvent]	Area	7,78E-06	sqm	(No statement)
Transformation, to unknown [Hemerobie ecoinvent]	Area	4,15E-06	sqm	(No statement)
Transformation, to urban, discontinuously built [Hemerobie ecoinvent]	Area	2,30E-09	sqm	(No statement)
Transformation, to water bodies, artificial [Hemerobie ecoinvent]	Area	2,04E-04	sqm	(No statement)
Transformation, to water courses, artificial [Hemerobie ecoinvent]	Area	7,61E-05	sqm	(No statement)
Ulexite [Non renewable resources]	Mass	6,78E-07	kg	(No statement)
Uranium free ore (BUWAL) [Uranium (resource)]	Mass	-2,93E-08	kg	Literature
Uranium free ore [Uranium (resource)]	Mass	4,69E-09	kg	Literature
Uranium natural [Uranium (resource)]	Mass	1,38E-04	kg	(Literature)
Waste for recovery (unspecified) [Waste for recovery]	Mass	1,59E-01	kg	(No statement)
Water (feed water) [Water]	Mass	2,37E-02	kg	(Literature)
Water (ground water) [Water]	Mass	1,14E+02	kg	Estimated
Water (lake water) [Water]	Mass	2,57E-02	kg	(No statement)
Water (river water) [Water]	Mass	1,35E+01	kg	(No statement)
Water (sea water) [Water]	Mass	2,13E+00	kg	(Literature)
Water (surface water) [Water]	Mass	1,57E+02	kg	(Calculated)
Water [Water]	Mass	2,09E+02	kg	(Measured)
Water for industrial use [Operating materials]	Mass	4,86E+00	kg	(Calculated)
Water, salt, sole [in water]	Volume	4,08E-05	m3	(No statement)
Water,turbine use, unspecified natural origin [in water]	Volume	6,74E+01	m3	(No statement)
Vermiculite [Non renewable resources]	Mass	2,45E-08	kg	(No statement)
Volume occupied, final repository for low-active radioactive waste [Hemerobie ecoinvent]	Volume	7,06E-08	m3	(No statement)
Volume occupied, final repository for radioactive waste [Hemerobie ecoinvent]	Volume	1,81E-08	m3	(No statement)
Volume occupied, reservoir [Hemerobie ecoinvent]	Cubic meter years	5,12E-01	m3a	(No statement)
Volume occupied, underground deposit [Hemerobie	Volume	2,26E-08	m3	(No statement)

Appendix 2.9
LCI Data – Tablet e-paper newspaper, Swedish scenario

Flow - Inputs	Quantity	Amount	Unit	Origin of data
ecoinvent]				
Wood (BUWAL) [Renewable energy resources]	Mass	-2,08E-02	kg	Literature
Wood [Renewable energy resources]	Mass	1,24E-02	kg	(Calculated)
Wood, hard, standing [biotic]	Volume	1,95E-04	m3	(No statement)
Wood, soft, standing [biotic]	Volume	5,01E-04	m3	(No statement)
Zinc - copper ore (4.07%-2.59%) [Non renewable resources]	Mass	2,67E-01	kg	(Calculated)
Zinc - lead - copper ore (12%-3%-2%) [Non renewable resources]	Mass	2,02E-01	kg	Calculated
Zinc - lead ore (4.21%-4.96%) [Non renewable resources]	Mass	2,96E-09	kg	Estimated
Zinc [Non renewable elements]	Mass	1,22E-05	kg	(No statement)
Zinc ore (sulphide) [Non renewable resources]	Mass	6,34E-11	kg	Calculated

Flow - Outputs	Quantity	Amount	Unit	Origin of data
1,1,1-Trichloroethane [Halogenated organic emissions to air]	Mass	2,04E-08	kg	Estimated
Acenaphthene [Hydrocarbons to fresh water]	Mass	1,38E-11	kg	(No statement)
Acenaphthene [Hydrocarbons to sea water]	Mass	6,64E-12	kg	(No statement)
Acenaphthylene [Hydrocarbons to fresh water]	Mass	8,62E-13	kg	(No statement)
Acenaphthylene [Hydrocarbons to sea water]	Mass	4,15E-13	kg	(No statement)
Acentaphthene [Group NMVOC to air]	Mass	2,67E-12	kg	(No statement)
Acetaldehyde (Ethanal) [Group NMVOC to air]	Mass	2,97E-06	kg	(Literature)
Acetic acid [Group NMVOC to air]	Mass	1,20E-05	kg	(Literature)
Acetic acid [Hydrocarbons to fresh water]	Mass	6,89E-09	kg	(No statement)
Acetone (dimethylcetone) [Group NMVOC to air]	Mass	2,82E-06	kg	(Literature)
Acid (calculated as H+) [Inorganic emissions to fresh water]	Mass	3,88E-05	kg	(Literature)
Aclonifen [Pesticides to agricultural soil]	Mass	2,29E-10	kg	(No statement)
Acrolein [Group NMVOC to air]	Mass	1,77E-10	kg	(No statement)
Acrylonitrile [Hydrocarbons to fresh water]	Mass	3,23E-05	kg	Calculated
Adsorbable organic halogen compounds (AOX) [Analytical measures to fresh water]	Mass	2,36E-04	kg	(Measured)
Adsorbable organic halogen compounds (AOX) [Analytical measures to sea water]	Mass	3,87E-10	kg	(No statement)
Aktinide (general) [Radioactive emissions to air]	Activity	8,94E-07	Bq	(No statement)
Aktinide (general) [Radioactive emissions to sea water]	Activity	9,91E-02	Bq	(No statement)
Aldehyde (unspecified) [Group NMVOC to air]	Mass	1,11E-07	kg	(Literature)
Alkane (unspecified) [Group NMVOC to air]	Mass	4,46E-05	kg	(Calculated)
Alkane (unspecified) [Hydrocarbons to fresh water]	Mass	2,88E-07	kg	(No statement)
Alkane (unspecified) [Hydrocarbons to sea water]	Mass	1,39E-07	kg	(No statement)
Alkene (unspecified) [Group NMVOC to air]	Mass	4,31E-05	kg	(Calculated)
Alkene (unspecified) [Hydrocarbons to fresh water]	Mass	2,66E-08	kg	(No statement)
Alkene (unspecified) [Hydrocarbons to sea water]	Mass	1,28E-08	kg	(No statement)
Aluminum [Fresh water]	Mass	4,60E-04	kg	(No statement)
Aluminum [Inorganic emissions to agricultural soil]	Mass	1,67E-05	kg	(No statement)
Aluminum [Inorganic emissions to fresh water]	Mass	7,94E-05	kg	(Literature)
Aluminum [Inorganic emissions to industrial soil]	Mass	1,84E-06	kg	(No statement)
Aluminum [Inorganic emissions to sea water]	Mass	6,84E-07	kg	(No statement)
Aluminum [Particles to air]	Mass	2,90E-05	kg	(No statement)
Aluminum chips [Waste for recovery]	Mass	2,86E-04	kg	Calculated
Aluminum oxide (alumina) [Waste for recovery]	Mass	2,26E-04	kg	(Calculated)
Aluminum scrap [Waste for recovery]	Mass	1,69E-03	kg	(Measured)
Americium (Am241) [Radioactive emissions to fresh	Activity	1,18E-01	Bq	Calculated

Appendix 2.9
LCI Data – Tablet e-paper newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
water]				
Ammonia [Inorganic emissions to air]	Mass	6,14E-05	kg	(Calculated)
Ammonia [Inorganic emissions to fresh water]	Mass	1,80E-06	kg	(Measured)
Ammonium / ammonia [Fresh water]	Mass	1,03E-07	kg	(No statement)
Ammonium / ammonia [Inorganic emissions to fresh water]	Mass	1,15E-04	kg	(Estimated)
Ammonium / ammonia [Inorganic emissions to sea water]	Mass	8,76E-08	kg	(No statement)
Ammonium [Inorganic emissions to air]	Mass	3,04E-06	kg	Measured
Ammonium carbonate [high population density]	Mass	1,76E-09	kg	(No statement)
Ammonium nitrate [Inorganic emissions to air]	Mass	1,72E-09	kg	(Literature)
Antimony (Sb122) [Radioactive emissions to fresh water]	Activity	1,20E-06	Bq	(No statement)
Antimony (Sb124) [Radioactive emissions to air]	Activity	3,92E-05	Bq	(Literature)
Antimony (Sb124) [Radioactive emissions to fresh water]	Activity	2,19E-02	Bq	(Literature)
Antimony (Sb125) [Radioactive emissions to air]	Activity	3,10E-08	Bq	(No statement)
Antimony (Sb125) [Radioactive emissions to fresh water]	Activity	2,94E-02	Bq	(Literature)
Antimony [Fresh water]	Mass	2,09E-04	kg	(No statement)
Antimony [Heavy metals to agricultural soil]	Mass	3,80E-13	kg	(No statement)
Antimony [Heavy metals to air]	Mass	2,27E-07	kg	(Calculated)
Antimony [Heavy metals to fresh water]	Mass	1,13E-04	kg	(No statement)
Antimony [Heavy metals to industrial soil]	Mass	1,35E-11	kg	(No statement)
Argon (Ar41) [Radioactive emissions to air]	Activity	2,47E+02	Bq	(Literature)
Argon [Inorganic emissions to air]	Mass	3,18E-06	kg	(No statement)
Aromatic hydrocarbons (unspecified) [Group NMVOC to air]	Mass	8,19E-07	kg	(Calculated)
Aromatic hydrocarbons (unspecified) [Hydrocarbons to fresh water]	Mass	1,16E-06	kg	Literature
Aromatic hydrocarbons (unspecified) [Hydrocarbons to sea water]	Mass	6,10E-07	kg	(No statement)
Arsenic [Fresh water]	Mass	3,98E-07	kg	(No statement)
Arsenic [Heavy metals to agricultural soil]	Mass	4,87E-09	kg	(No statement)
Arsenic [Heavy metals to air]	Mass	1,77E-06	kg	(Literature)
Arsenic [Heavy metals to fresh water]	Mass	8,70E-07	kg	(Literature)
Arsenic [Heavy metals to industrial soil]	Mass	1,58E-06	kg	Measured
Arsenic [Heavy metals to sea water]	Mass	1,19E-09	kg	(No statement)
Arsenic trioxide [Heavy metals to air]	Mass	1,18E-11	kg	Measured
Ash [Stockpile goods]	Mass	4,00E-03	kg	(Estimated)
Atrazine [Pesticides to agricultural soil]	Mass	2,62E-12	kg	(No statement)
Barium (Ba140) [Radioactive emissions to air]	Activity	2,01E-06	Bq	(No statement)
Barium (Ba140) [Radioactive emissions to fresh water]	Activity	5,24E-06	Bq	(No statement)
Barium [Fresh water]	Mass	1,30E-05	kg	(No statement)
Barium [Inorganic emissions to agricultural soil]	Mass	3,73E-11	kg	(No statement)
Barium [Inorganic emissions to air]	Mass	7,38E-06	kg	(Literature)
Barium [Inorganic emissions to fresh water]	Mass	2,69E-06	kg	(Literature)
Barium [Inorganic emissions to industrial soil]	Mass	9,19E-07	kg	(No statement)
Barium [Inorganic emissions to sea water]	Mass	9,31E-07	kg	(No statement)
Barium compounds (unspecified; rel. to Ba) [Inorganic emissions to air]	Mass	1,52E-10	kg	Calculated
Barytes [ocean]	Mass	2,76E-05	kg	(No statement)
Battery Li-Ion (E-Paper) [Flows]	Mass	6,55E-11	kg	(No statement)
Bentazone [Pesticides to agricultural soil]	Mass	1,17E-10	kg	(No statement)
Benzaldehyde [Group NMVOC to air]	Mass	1,52E-11	kg	(No statement)
Benzene [Group NMVOC to air]	Mass	1,42E-05	kg	(Literature)
Benzene [Hydrocarbons to fresh water]	Mass	2,03E-06	kg	(Literature)
Benzene [Hydrocarbons to sea water]	Mass	8,88E-08	kg	(No statement)

Appendix 2.9
LCI Data – Tablet e-paper newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Benzo{a}pyrene [Group PAH to air]	Mass	5,32E-08	kg	(Literature)
Beryllium [Fresh water]	Mass	4,99E-08	kg	(No statement)
Beryllium [Inorganic emissions to air]	Mass	2,68E-08	kg	(Calculated)
Beryllium [Inorganic emissions to fresh water]	Mass	3,09E-09	kg	(Literature)
Biological oxygen demand (BOD) [Analytical measures to fresh water]	Mass	1,05E-03	kg	(Literature)
Biological oxygen demand (BOD) [Analytical measures to sea water]	Mass	1,14E-04	kg	(No statement)
Biological oxygen demand, BSB5 (Ecoinvent) [Fresh water]	Mass	4,87E-04	kg	(No statement)
Blast furnace slag [Waste for recovery]	Mass	3,18E-04	kg	(Calculated)
Boiler ash (unspecified) [Waste for recovery]	Mass	4,49E-02	kg	(Calculated)
Boron [Fresh water]	Mass	6,17E-06	kg	(No statement)
Boron [Inorganic emissions to air]	Mass	2,03E-08	kg	(No statement)
Boron [Inorganic emissions to fresh water]	Mass	2,57E-06	kg	(Literature)
Boron [Inorganic emissions to sea water]	Mass	8,78E-09	kg	(No statement)
Boron compounds (unspecified) [Inorganic emissions to air]	Mass	2,72E-05	kg	(Calculated)
Bromate [Inorganic emissions to fresh water]	Mass	1,02E-07	kg	(No statement)
Bromine [Fresh water]	Mass	8,12E-05	kg	(No statement)
Bromine [Inorganic emissions to air]	Mass	8,56E-06	kg	(Calculated)
Bromine [Inorganic emissions to fresh water]	Mass	3,83E-04	kg	(No statement)
Bromine [Inorganic emissions to sea water]	Mass	7,48E-07	kg	(No statement)
Butadiene [Group NMVOC to air]	Mass	3,85E-14	kg	(No statement)
Butane (n-butane) [Group NMVOC to air]	Mass	8,11E-06	kg	(Calculated)
Butane [Group NMVOC to air]	Mass	2,42E-05	kg	(Literature)
Butene [Group NMVOC to air]	Mass	6,98E-08	kg	(No statement)
Butene [Hydrocarbons to fresh water]	Mass	3,99E-10	kg	(No statement)
Cadmium [Fresh water]	Mass	1,15E-07	kg	(No statement)
Cadmium [Heavy metals to agricultural soil]	Mass	9,84E-09	kg	(No statement)
Cadmium [Heavy metals to air]	Mass	2,87E-07	kg	(Literature)
Cadmium [Heavy metals to fresh water]	Mass	6,34E-07	kg	(Literature)
Cadmium [Heavy metals to industrial soil]	Mass	2,56E-07	kg	(Measured)
Cadmium [Heavy metals to sea water]	Mass	3,60E-10	kg	(No statement)
CaF2 (low radioactice) [Radioactive waste]	Mass	1,10E-05	kg	(Literature)
Calcium [Fresh water]	Mass	2,20E-03	kg	(No statement)
Calcium [Inorganic emissions to fresh water]	Mass	1,02E-02	kg	(Literature)
Calcium [Inorganic emissions to sea water]	Mass	3,52E-05	kg	(No statement)
Carbetamide [Pesticides to agricultural soil]	Mass	4,22E-11	kg	(No statement)
Carbon (C14) [Radioactive emissions to air]	Activity	1,79E+02	Bq	(Literature)
Carbon (C14) [Radioactive emissions to fresh water]	Activity	6,10E+00	Bq	(Calculated)
Carbon (unspecified) [Organic emissions to agricultural soil]	Mass	3,98E-05	kg	(No statement)
Carbon (unspecified) [Organic emissions to industrial soil]	Mass	5,51E-06	kg	(No statement)
Carbon dioxide (biotic) [Air]	Mass	6,43E-01	kg	(No statement)
Carbon dioxide [Inorganic emissions to air]	Mass	9,59E+00	kg	(Calculated)
Carbon disulphide [Inorganic emissions to air]	Mass	2,93E-06	kg	(No statement)
Carbon monoxide (biotic) [Air]	Mass	6,55E-05	kg	(No statement)
Carbon monoxide [Inorganic emissions to air]	Mass	4,61E-03	kg	(Literature)
Carbon tetrachloride (tetrachloromethane) [Halogenated organic emissions to air]	Mass	4,76E-10	kg	(No statement)
Carbon, organically bound [Organic emissions to fresh water]	Mass	7,17E-08	kg	Calculated

Appendix 2.9
LCI Data – Tablet e-paper newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Carbonate [Inorganic emissions to fresh water]	Mass	1,16E-04	kg	(Literature)
Cerium (Ce141) [Radioactive emissions to air]	Activity	4,88E-07	Bq	(No statement)
Cerium (Ce141) [Radioactive emissions to fresh water]	Activity	2,10E-06	Bq	(No statement)
Cerium (Ce144) [Radioactive emissions to fresh water]	Activity	6,38E-07	Bq	(No statement)
Cesium (Cs134) [Radioactive emissions to air]	Activity	3,28E-02	Bq	(Literature)
Cesium (Cs134) [Radioactive emissions to fresh water]	Activity	7,79E+00	Bq	(Literature)
Cesium (Cs136) [Radioactive emissions to fresh water]	Activity	3,72E-07	Bq	(No statement)
Cesium (Cs137) [Radioactive emissions to air]	Activity	6,68E-02	Bq	(Literature)
Cesium (Cs137) [Radioactive emissions to fresh water]	Activity	5,56E+01	Bq	(Literature)
Cesium (Cs137) [Radioactive emissions to sea water]	Activity	1,14E+01	Bq	(No statement)
Cesium [Heavy metals to fresh water]	Mass	2,22E-09	kg	(No statement)
Cesium [Heavy metals to sea water]	Mass	1,07E-09	kg	(No statement)
Chemical oxygen demand (COD) [Analytical measures to fresh water]	Mass	2,79E-02	kg	(Literature)
Chemical oxygen demand (COD) [Analytical measures to sea water]	Mass	1,15E-04	kg	(No statement)
Chemical oxygen demand, CSB (Ecoinvent) [Fresh water]	Mass	1,49E-03	kg	(No statement)
Chlorate [Inorganic emissions to fresh water]	Mass	8,45E-07	kg	(No statement)
Chloride (unspecified) [Inorganic emissions to air]	Mass	2,45E-05	kg	(Measured)
Chloride [Fresh water]	Mass	2,06E-05	kg	(No statement)
Chloride [Inorganic emissions to fresh water]	Mass	1,33E-01	kg	(Literature)
Chloride [Inorganic emissions to sea water]	Mass	5,36E-04	kg	(No statement)
Chlorinated hydrocarbons (unspecified) [Halogenated organic emissions to fresh water]	Mass	1,86E-06	kg	(Literature)
Chlorine (dissolved) [Inorganic emissions to fresh water]	Mass	9,42E-05	kg	(Literature)
Chlorine [Inorganic emissions to agricultural soil]	Mass	2,16E-06	kg	(No statement)
Chlorine [Inorganic emissions to air]	Mass	1,07E-06	kg	(Literature)
Chlorine [Inorganic emissions to industrial soil]	Mass	5,26E-05	kg	(No statement)
Chloromethane (methyl chloride) [Halogenated organic emissions to air]	Mass	8,27E-08	kg	Estimated
Chloromethane (methyl chloride) [Halogenated organic emissions to fresh water]	Mass	5,99E-07	kg	(Literature)
Chlorothalonil [Pesticides to agricultural soil]	Mass	1,00E-09	kg	(No statement)
Chlorous dissolvent [Halogenated organic emissions to fresh water]	Mass	3,01E-09	kg	(No statement)
Chlorous dissolvent [Halogenated organic emissions to sea water]	Mass	2,54E-16	kg	(No statement)
Chromium (Cr51) [Radioactive emissions to air]	Activity	3,13E-08	Bq	(No statement)
Chromium (Cr51) [Radioactive emissions to fresh water]	Activity	2,19E-02	Bq	(No statement)
Chromium (unspecified) [Heavy metals to agricultural soil]	Mass	1,43E-07	kg	(No statement)
Chromium (unspecified) [Heavy metals to air]	Mass	1,64E-06	kg	(Literature)
Chromium (unspecified) [Heavy metals to fresh water]	Mass	1,91E-07	kg	(Literature)
Chromium (unspecified) [Heavy metals to industrial soil]	Mass	1,14E-08	kg	(No statement)
Chromium +III [Heavy metals to air]	Mass	1,72E-08	kg	Measured
Chromium +III [Heavy metals to fresh water]	Mass	1,78E-07	kg	(Literature)
Chromium +III [Heavy metals to industrial soil]	Mass	3,26E-09	kg	Calculated
Chromium +VI [Fresh water]	Mass	1,16E-06	kg	(No statement)
Chromium +VI [Heavy metals to air]	Mass	1,16E-08	kg	(No statement)
Chromium +VI [Heavy metals to fresh water]	Mass	5,98E-07	kg	Literature
Chromium +VI [Heavy metals to industrial soil]	Mass	1,42E-06	kg	(No statement)
Cobalt (Co57) [Radioactive emissions to fresh water]	Activity	1,18E-05	Bq	(No statement)
Cobalt (Co58) [Radioactive emissions to air]	Activity	1,92E-04	Bq	(Literature)
Cobalt (Co58) [Radioactive emissions to fresh water]	Activity	2,25E-01	Bq	(Literature)

Appendix 2.9
LCI Data – Tablet e-paper newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Cobalt (Co60) [Radioactive emissions to air]	Activity	4,81E-03	Bq	(Literature)
Cobalt (Co60) [Radioactive emissions to fresh water]	Activity	2,59E+01	Bq	(Literature)
Cobalt [Fresh water]	Mass	2,49E-06	kg	(No statement)
Cobalt [Heavy metals to agricultural soil]	Mass	1,36E-08	kg	(No statement)
Cobalt [Heavy metals to air]	Mass	1,03E-06	kg	(Literature)
Cobalt [Heavy metals to fresh water]	Mass	8,87E-09	kg	Measured
Cobalt [Heavy metals to industrial soil]	Mass	1,12E-08	kg	Measured
Cobalt [Heavy metals to sea water]	Mass	3,42E-10	kg	(No statement)
Cooling water [Waste for recovery]	Mass	5,18E+01	kg	(Measured)
Copper [Fresh water]	Mass	1,77E-04	kg	(No statement)
Copper [Heavy metals to agricultural soil]	Mass	1,61E-07	kg	(No statement)
Copper [Heavy metals to air]	Mass	7,21E-06	kg	(Literature)
Copper [Heavy metals to fresh water]	Mass	1,91E-06	kg	(Literature)
Copper [Heavy metals to industrial soil]	Mass	6,81E-06	kg	(Measured)
Copper [Heavy metals to sea water]	Mass	1,99E-09	kg	(No statement)
Cumene (isopropylbenzene) [Group NMVOC to air]	Mass	3,12E-08	kg	(No statement)
Cumene (isopropylbenzene) [Organic emissions to fresh water]	Mass	7,49E-08	kg	(No statement)
Curium (Cm alpha) [Radioactive emissions to fresh water]	Activity	1,57E-01	Bq	Calculated
Cyanide (unspecified) [Inorganic emissions to air]	Mass	8,28E-07	kg	(No statement)
Cyanide [Inorganic emissions to fresh water]	Mass	6,67E-07	kg	(Literature)
Cyanide [Inorganic emissions to sea water]	Mass	3,80E-09	kg	(No statement)
Cycloalkanes (unspec.) [Group NMVOC to air]	Mass	4,98E-10	kg	(No statement)
Cypermethrin [Pesticides to agricultural soil]	Mass	9,40E-13	kg	(No statement)
Detergent (unspecified) [Other emissions to fresh water]	Mass	8,61E-10	kg	(Literature)
Dichloroethane (ethylene dichloride) [Halogenated organic emissions to air]	Mass	7,10E-09	kg	(No statement)
Dichloroethane (ethylene dichloride) [Halogenated organic emissions to fresh water]	Mass	3,37E-09	kg	(No statement)
Dichloromethane (methylene chloride) [Halogenated organic emissions to air]	Mass	4,84E-05	kg	Calculated
Dichloromethane (methylene chloride) [Halogenated organic emissions to fresh water]	Mass	4,65E-08	kg	(No statement)
Dichloropropane [Halogenated organic emissions to fresh water]	Mass	2,69E-10	kg	Calculated
Dichromate [river]	Mass	3,74E-08	kg	(No statement)
Diethyl amine (ethylene ethane amine) [Group NMVOC to air]	Mass	1,78E-11	kg	Measured
Different pollutants [Other emissions to agricultural soil]	Mass	3,21E-04	kg	(No statement)
Different pollutants [Other emissions to industrial soil]	Mass	1,37E-05	kg	(No statement)
Dinoseb [Pesticides to agricultural soil]	Mass	2,73E-10	kg	(No statement)
Dissolved organic carbon, DOC (Ecoinvent) [Fresh water]	Mass	5,97E-04	kg	(No statement)
Dross [Waste for recovery]	Mass	1,15E-04	kg	(Literature)
Dust (> PM10) [Particles to air]	Mass	9,01E-04	kg	(No statement)
Dust (PM2,5 - PM10) [Particles to air]	Mass	1,00E-04	kg	(No statement)
Dust (PM2.5) [Particles to air]	Mass	6,83E-04	kg	(No statement)
Dust (unspecified) [Particles to air]	Mass	4,23E-03	kg	(Literature)
Ethane [Group NMVOC to air]	Mass	8,78E-04	kg	(Calculated)
Ethanol [Group NMVOC to air]	Mass	5,81E-06	kg	(Literature)
Ethene (ethylene) [Group NMVOC to air]	Mass	1,26E-06	kg	Calculated
Ethene (ethylene) [Hydrocarbons to fresh water]	Mass	2,80E-08	kg	(No statement)
Ethine (acetylene) [Group NMVOC to air]	Mass	1,96E-08	kg	(No statement)
Ethyl benzene [Group NMVOC to air]	Mass	2,58E-05	kg	(Calculated)

Appendix 2.9
LCI Data – Tablet e-paper newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Ethyl benzene [Hydrocarbons to fresh water]	Mass	3,89E-07	kg	(Literature)
Ethyl benzene [Hydrocarbons to sea water]	Mass	2,56E-08	kg	(No statement)
Ethylene oxide [Group NMVOC to air]	Mass	3,79E-10	kg	(No statement)
Ethylene oxide [Hydrocarbons to fresh water]	Mass	7,70E-12	kg	(No statement)
Ethylenediamine [Group NMVOC to air]	Mass	3,06E-13	kg	(No statement)
Ethylenediamine [Organic emissions to fresh water]	Mass	7,41E-13	kg	(No statement)
Exhaust [Other emissions to air]	Mass	3,53E+01	kg	(Calculated)
Fatty acids (calculated as total carbon) [Hydrocarbons to fresh water]	Mass	8,15E-06	kg	(No statement)
Fatty acids (calculated as total carbon) [Hydrocarbons to sea water]	Mass	6,24E-06	kg	(No statement)
Fenpiclonil [Pesticides to agricultural soil]	Mass	4,74E-11	kg	(No statement)
Filter dust (heavy fuel oil power plant) [Waste for recovery]	Mass	8,56E-05	kg	(Calculated)
Filter dust [Waste for recovery]	Mass	9,49E-07	kg	Calculated
Fluoride (unspecified) [Inorganic emissions to air]	Mass	2,63E-06	kg	(Literature)
Fluoride [Fresh water]	Mass	9,77E-06	kg	(No statement)
Fluoride [Inorganic emissions to fresh water]	Mass	8,47E-04	kg	(Literature)
Fluoride [Inorganic emissions to industrial soil]	Mass	1,06E-06	kg	(No statement)
Fluoride [Inorganic emissions to sea water]	Mass	1,30E-07	kg	(No statement)
Fluorides [Inorganic emissions to air]	Mass	1,42E-08	kg	(Estimated)
Fluorine [Inorganic emissions to air]	Mass	4,91E-07	kg	(Literature)
Fluorine [Inorganic emissions to fresh water]	Mass	5,96E-07	kg	(Measured)
Fly ash (unspecified) [Waste for recovery]	Mass	1,38E-01	kg	(Calculated)
Formaldehyde (methanal) [Group NMVOC to air]	Mass	2,28E-05	kg	(Literature)
Formaldehyde (methanal) [Hydrocarbons to fresh water]	Mass	7,89E-09	kg	(No statement)
Furnace clinker [Waste for recovery]	Mass	4,93E-06	kg	Calculated
Glutaraldehyde [Hydrocarbons to sea water]	Mass	3,41E-09	kg	(No statement)
Glyphosate [Pesticides to agricultural soil]	Mass	1,10E-09	kg	(No statement)
Glyphosate [Pesticides to industrial soil]	Mass	3,59E-09	kg	(No statement)
Gypsum (FDI) [Waste for recovery]	Mass	2,21E-02	kg	(Calculated)
Gypsum [Waste for recovery]	Mass	1,15E-03	kg	(Estimated)
Halogenated hydrocarbons (unspecified) [Halogenated organic emissions to air]	Mass	-2,44E-12	kg	Literature
Halon (1211) [Halogenated organic emissions to air]	Mass	5,58E-09	kg	(No statement)
Halon (1301) [Halogenated organic emissions to air]	Mass	3,13E-08	kg	(Literature)
Hazardous waste (unspec.) [Hazardous waste]	Mass	2,05E-01	kg	(Estimated)
Heat from natural gas [Flows]	Energy	8,28E-12	MJ	(No statement)
Heat from oil [Flows]	Energy	7,46E-11	MJ	(No statement)
Heat from waste [Flows]	Energy	8,88E-11	MJ	(No statement)
Heavy metals to water (unspecified) [Heavy metals to fresh water]	Mass	8,84E-07	kg	(Measured)
Helium [Inorganic emissions to air]	Mass	1,45E-05	kg	(Literature)
Heptane (isomers) [Group NMVOC to air]	Mass	6,96E-07	kg	(No statement)
Hexachlorobenzene (Perchlorobenzene) [Halogenated organic emissions to air]	Mass	1,12E-10	kg	(No statement)
Hexaflourosilicates [Air]	Mass	9,82E-09	kg	(No statement)
Hexaflourosilicates [Sweet-]	Mass	1,77E-08	kg	(No statement)
Hexane (isomers) [Group NMVOC to air]	Mass	4,97E-06	kg	(Literature)
Hexane (isomers) [Hydrocarbons to fresh water]	Mass	2,00E-08	kg	Calculated
Highly radioactive waste [Radioactive waste]	Mass	3,21E-05	kg	(Calculated)
Highly-active fission product solution [Radioactive waste]	Mass	2,23E-07	kg	(Estimated)
Housing (E-Paper) [Flows]	Mass	3,93E-06	kg	(No statement)
Hydrocarbons (unspecified) [Hydrocarbons to fresh	Mass	1,19E-05	kg	(Literature)

Appendix 2.9
LCI Data – Tablet e-paper newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
water]				
Hydrocarbons (unspecified) [Hydrocarbons to sea water]	Mass	5,18E-07	kg	(No statement)
Hydrocarbons, aromatic [Group NMVOC to air]	Mass	2,04E-07	kg	(No statement)
Hydrocarbons, chloro-/fluoro- [Halogenated organic emissions to air]	Mass	4,36E-09	kg	(No statement)
Hydrocarbons, halogenated [Halogenated organic emissions to air]	Mass	1,43E-09	kg	(No statement)
Hydrogen (H3) [Radioactive emissions to air]	Activity	8,68E+02	Bq	(Literature)
Hydrogen (H3) [Radioactive emissions to fresh water]	Activity	1,80E+05	Bq	(Literature)
Hydrogen (H3) [Radioactive emissions to sea water]	Activity	2,36E+04	Bq	(No statement)
Hydrogen [Inorganic emissions to air]	Mass	8,03E-06	kg	(Measured)
Hydrogen arsenic (arsine) [Heavy metals to air]	Mass	9,80E-10	kg	Measured
Hydrogen chloride [Inorganic emissions to air]	Mass	6,49E-04	kg	(Literature)
Hydrogen chloride [Inorganic emissions to fresh water]	Mass	1,54E-11	kg	Estimated
Hydrogen cyanide (prussic acid) [Inorganic emissions to air]	Mass	7,29E-09	kg	(Calculated)
Hydrogen fluoride (hydrofluoric acid) [Inorganic emissions to fresh water]	Mass	5,13E-09	kg	(Measured)
Hydrogen fluoride [Inorganic emissions to air]	Mass	1,86E-04	kg	(Literature)
Hydrogen peroxide [Sweet-]	Mass	2,98E-10	kg	(No statement)
Hydrogen phosphorous [Inorganic emissions to air]	Mass	8,41E-10	kg	Measured
Hydrogen sulphide [Fresh water]	Mass	1,96E-06	kg	(No statement)
Hydrogen sulphide [Inorganic emissions to air]	Mass	3,51E-04	kg	(Estimated)
Hydrogen sulphide [Inorganic emissions to fresh water]	Mass	9,19E-09	kg	(No statement)
Hydroxide [Inorganic emissions to fresh water]	Mass	7,27E-05	kg	Estimated
Hypochlorite [Inorganic emissions to fresh water]	Mass	3,68E-07	kg	(No statement)
Hypochlorite [Inorganic emissions to sea water]	Mass	4,13E-07	kg	(No statement)
Iliad Module (E-Paper) [Flows]	Mass	7,71E-12	kg	(No statement)
Incineration good [Waste for disposal]	Mass	2,12E-03	kg	Literature
Industrial waste for municipal disposal [Consumer waste]	Mass	2,84E-01	kg	(Literature)
inert chemical waste [Consumer waste]	Mass	2,96E-03	kg	(Literature)
Inert gases [Radioactive emissions to air]	Activity	5,86E+05	Bq	(No statement)
Inorganic salts and acids (unspecified) [Inorganic emissions to fresh water]	Mass	-2,59E-07	kg	Literature
Iodide [Fresh water]	Mass	5,15E-13	kg	(No statement)
Iodide [Inorganic emissions to fresh water]	Mass	2,37E-07	kg	(No statement)
Iodide [Inorganic emissions to sea water]	Mass	1,07E-07	kg	(No statement)
Iodine (I129) [Radioactive emissions to air]	Activity	3,17E-01	Bq	Calculated
Iodine (I129) [Radioactive emissions to fresh water]	Activity	1,75E+01	Bq	(Calculated)
Iodine (I131) [Radioactive emissions to air]	Activity	9,51E-02	Bq	(Literature)
Iodine (I131) [Radioactive emissions to fresh water]	Activity	5,00E-03	Bq	(Literature)
Iodine (I133) [Radioactive emissions to air]	Activity	2,41E-06	Bq	(No statement)
Iodine (I133) [Radioactive emissions to fresh water]	Activity	3,29E-06	Bq	(No statement)
Iodine [Inorganic emissions to air]	Mass	1,13E-07	kg	(No statement)
Iron (Fe59) [Radioactive emissions to fresh water]	Activity	9,05E-07	Bq	(No statement)
Iron [Fresh water]	Mass	2,52E-04	kg	(No statement)
Iron [Heavy metals to agricultural soil]	Mass	3,92E-05	kg	(No statement)
Iron [Heavy metals to air]	Mass	4,13E-06	kg	(Literature)
Iron [Heavy metals to fresh water]	Mass	3,12E-03	kg	(Literature)
Iron [Heavy metals to industrial soil]	Mass	1,07E-05	kg	(No statement)
Iron [Heavy metals to sea water]	Mass	5,79E-08	kg	(No statement)
Isocyanide acid [Air]	Mass	2,59E-07	kg	(No statement)
Jacket and body material [Radioactive waste]	Mass	1,34E-07	kg	(Estimated)
Krypton (Kr85) [Radioactive emissions to air]	Activity	4,52E+06	Bq	(Literature)

Appendix 2.9
LCI Data – Tablet e-paper newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Krypton (Kr85m) [Radioactive emissions to air]	Activity	4,41E+00	Bq	(Literature)
Krypton (Kr87) [Radioactive emissions to air]	Activity	1,22E-02	Bq	(No statement)
Krypton (Kr88) [Radioactive emissions to air]	Activity	1,30E-02	Bq	(No statement)
Krypton (Kr89) [Radioactive emissions to air]	Activity	4,00E-03	Bq	(No statement)
Lanthanides [Heavy metals to air]	Mass	4,42E-09	kg	(Calculated)
Lanthanum (La140) [Radioactive emissions to fresh water]	Activity	5,58E-06	Bq	(No statement)
Lanthanum (La141) [Radioactive emissions to air]	Activity	1,72E-07	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to air]	Activity	7,39E-02	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to fresh water]	Activity	9,82E-02	Bq	(No statement)
Lead (Pb210) [Radioactive emissions to sea water]	Activity	5,33E-03	Bq	(No statement)
Lead [Fresh water]	Mass	1,04E-06	kg	(No statement)
Lead [Heavy metals to agricultural soil]	Mass	5,78E-08	kg	(No statement)
Lead [Heavy metals to air]	Mass	6,33E-06	kg	(Literature)
Lead [Heavy metals to fresh water]	Mass	6,36E-06	kg	(Literature)
Lead [Heavy metals to industrial soil]	Mass	1,13E-05	kg	(Measured)
Lead [Heavy metals to sea water]	Mass	9,69E-09	kg	(No statement)
Linuron [Pesticides to agricultural soil]	Mass	1,77E-09	kg	(No statement)
Liquid hazardous waste [Hazardous waste]	Mass	4,54E-06	kg	(Estimated)
Liquid waste [Consumer waste]	Mass	6,11E-05	kg	(Calculated)
Lubricating oil [Operating materials]	Mass	2,23E-05	kg	Calculated
Magnesium [Fresh water]	Mass	2,10E-04	kg	(No statement)
Magnesium [Inorganic emissions to fresh water]	Mass	1,28E-04	kg	(Literature)
Magnesium [Inorganic emissions to sea water]	Mass	5,89E-06	kg	(No statement)
Magnesium chloride [Inorganic emissions to fresh water]	Mass	3,48E-09	kg	(No statement)
Mancozeb [Pesticides to agricultural soil]	Mass	1,31E-09	kg	(No statement)
Manganese (Mn54) [Radioactive emissions to air]	Activity	1,60E-08	Bq	(No statement)
Manganese (Mn54) [Radioactive emissions to fresh water]	Activity	4,01E+00	Bq	(Literature)
Manganese [Fresh water]	Mass	4,22E-05	kg	(No statement)
Manganese [Heavy metals to agricultural soil]	Mass	1,35E-05	kg	(No statement)
Manganese [Heavy metals to air]	Mass	1,54E-06	kg	(Calculated)
Manganese [Heavy metals to fresh water]	Mass	1,13E-05	kg	(Literature)
Manganese [Heavy metals to industrial soil]	Mass	1,11E-07	kg	(No statement)
Manganese [Heavy metals to sea water]	Mass	4,72E-08	kg	(No statement)
Medium and low radioactive liquid waste [Radioactive waste]	Mass	2,85E-07	kg	(Calculated)
Medium and low radioactive wastes [Radioactive waste]	Mass	3,82E-05	kg	(Literature)
Mercaptan (unspecified) [Group NMVOC to air]	Mass	8,61E-10	kg	(Literature)
Mercury [Fresh water]	Mass	7,03E-09	kg	(No statement)
Mercury [Heavy metals to agricultural soil]	Mass	3,18E-10	kg	(No statement)
Mercury [Heavy metals to air]	Mass	2,98E-07	kg	(Literature)
Mercury [Heavy metals to fresh water]	Mass	1,78E-08	kg	(Literature)
Mercury [Heavy metals to industrial soil]	Mass	6,41E-08	kg	(Measured)
Mercury [Heavy metals to sea water]	Mass	5,01E-11	kg	(No statement)
Metal ions (unspecific) [Fresh water]	Mass	1,00E-04	kg	(No statement)
Metal ions (unspecific) [Inorganic emissions to fresh water]	Mass	2,69E-05	kg	Calculated
Metaldehyde [Organic emissions to agricultural soil]	Mass	8,15E-12	kg	(No statement)
Metals (unspecified) [Inorganic emissions to fresh water]	Mass	3,22E-11	kg	Literature
Metals (unspecified) [Particles to air]	Mass	-6,90E-08	kg	(Literature)
Metals (unspecified) [Particles to fresh water]	Mass	1,82E-06	kg	(Literature)
Methacrylate [Group NMVOC to air]	Mass	5,98E-10	kg	Calculated
Methane (biotic) [Air]	Mass	4,78E-05	kg	(No statement)

Appendix 2.9
LCI Data – Tablet e-paper newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Methane [Organic emissions to air (group VOC)]	Mass	1,93E-02	kg	(Literature)
Methanol [Group NMVOC to air]	Mass	5,47E-06	kg	(Literature)
Methanol [Hydrocarbons to fresh water]	Mass	1,18E-05	kg	(Measured)
Methanol [Hydrocarbons to sea water]	Mass	7,01E-09	kg	(No statement)
Methyl methacrylate (MMA) [Group NMVOC to air]	Mass	1,65E-08	kg	Calculated
Methyl tert-butylether [Group NMVOC to air]	Mass	1,29E-09	kg	(No statement)
Methyl tert-butylether [Hydrocarbons to fresh water]	Mass	1,99E-11	kg	(No statement)
Methyl tert-butylether [Hydrocarbons to sea water]	Mass	6,96E-09	kg	(No statement)
Metolachlor [Pesticides to agricultural soil]	Mass	1,28E-08	kg	(No statement)
Metribuzin [Pesticides to agricultural soil]	Mass	4,59E-11	kg	(No statement)
Mineral waste [Consumer waste]	Mass	1,50E-05	kg	Estimated
Molybdenum (Mo99) [Radioactive emissions to fresh water]	Activity	1,92E-06	Bq	(No statement)
Molybdenum [Fresh water]	Mass	1,19E-07	kg	(No statement)
Molybdenum [Heavy metals to agricultural soil]	Mass	3,34E-09	kg	(No statement)
Molybdenum [Heavy metals to air]	Mass	1,74E-08	kg	(Literature)
Molybdenum [Heavy metals to fresh water]	Mass	2,39E-06	kg	(Literature)
Molybdenum [Heavy metals to sea water]	Mass	2,20E-10	kg	(No statement)
Monoethanolamine [Group NMVOC to air]	Mass	5,24E-09	kg	(No statement)
Municipal waste [Consumer waste]	Mass	1,17E-03	kg	(Calculated)
Napropamide [Pesticides to agricultural soil]	Mass	1,44E-11	kg	(No statement)
Neutral salts [Inorganic emissions to fresh water]	Mass	6,19E-05	kg	(Calculated)
Nickel [Fresh water]	Mass	4,78E-05	kg	(No statement)
Nickel [Heavy metals to agricultural soil]	Mass	4,21E-08	kg	(No statement)
Nickel [Heavy metals to air]	Mass	5,43E-06	kg	(Literature)
Nickel [Heavy metals to fresh water]	Mass	7,40E-07	kg	(Literature)
Nickel [Heavy metals to industrial soil]	Mass	1,21E-07	kg	Calculated
Nickel [Heavy metals to sea water]	Mass	9,17E-10	kg	(No statement)
Niobium (Nb95) [Radioactive emissions to air]	Activity	4,66E-03	Bq	(No statement)
Nitrate [Fresh water]	Mass	3,25E-05	kg	(No statement)
Nitrate [Inorganic emissions to air]	Mass	1,72E-09	kg	(No statement)
Nitrate [Inorganic emissions to fresh water]	Mass	3,02E-04	kg	(Literature)
Nitrate [Inorganic emissions to sea water]	Mass	7,58E-06	kg	(No statement)
Nitrite [Fresh water]	Mass	5,59E-09	kg	(No statement)
Nitrite [Inorganic emissions to fresh water]	Mass	2,99E-06	kg	(No statement)
Nitrite [Inorganic emissions to sea water]	Mass	1,54E-07	kg	(No statement)
Nitrogen [Inorganic emissions to fresh water]	Mass	1,20E-05	kg	(Literature)
Nitrogen [Inorganic emissions to sea water]	Mass	5,12E-09	kg	(No statement)
Nitrogen monoxide [Inorganic emissions to air]	Mass	1,59E-09	kg	Calculated
Nitrogen organic bounded [Fresh water]	Mass	1,67E-07	kg	(No statement)
Nitrogen organic bounded [Inorganic emissions to fresh water]	Mass	9,09E-07	kg	Literature
Nitrogen organic bounded [Inorganic emissions to sea water]	Mass	3,41E-07	kg	(No statement)
Nitrogen oxides [Inorganic emissions to air]	Mass	2,05E-02	kg	(Literature)
Nitrous oxide (laughing gas) [Inorganic emissions to air]	Mass	4,27E-04	kg	(Calculated)
NMVOC (unspecified) [Group NMVOC to air]	Mass	4,85E-03	kg	(Literature)
non used primary energy from water power [Other emissions to fresh water]	Energy ren.	1,31E+00	MJ	(Calculated)
non used primary energy from wind power [Other emissions to air]	Energy ren.	1,16E-01	MJ	(Calculated)
Oil (unspecified) [Hydrocarbons to fresh water]	Mass	2,11E-04	kg	(Literature)
Oil (unspecified) [Hydrocarbons to sea water]	Mass	3,50E-05	kg	(No statement)
Oil (unspecified) [Organic emissions to agricultural soil]	Mass	2,29E-04	kg	(No statement)

Appendix 2.9
LCI Data – Tablet e-paper newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Oil (unspecified) [Organic emissions to industrial soil]	Mass	1,13E-06	kg	Measured
Orbencarb [Pesticides to agricultural soil]	Mass	2,48E-10	kg	(No statement)
Organic chlorine compounds (unspecified) [Organic emissions to fresh water]	Mass	8,61E-10	kg	(Literature)
Organic chlorine compounds [Organic emissions to air (group VOC)]	Mass	7,69E-10	kg	(Literature)
Organic compounds (unspecified) [Organic emissions to fresh water]	Mass	2,64E-10	kg	(Estimated)
Overburden [Stockpile goods]	Mass	1,94E+01	kg	(Literature)
Oxygen [Inorganic emissions to air]	Mass	8,58E-05	kg	Literature
Ozone [Inorganic emissions to air]	Mass	3,51E-05	kg	(No statement)
Pentachlorobenzene [Halogenated organic emissions to air]	Mass	1,72E-10	kg	(No statement)
Pentachlorophenol (PCP) [Halogenated organic emissions to air]	Mass	9,80E-09	kg	(No statement)
Pentane (n-pentane) [Group NMVOC to air]	Mass	3,53E-05	kg	(Literature)
Phenol (hydroxy benzene) [Group NMVOC to air]	Mass	1,16E-08	kg	(No statement)
Phenol (hydroxy benzene) [Hydrocarbons to fresh water]	Mass	2,60E-06	kg	(Literature)
Phenol (hydroxy benzene) [Hydrocarbons to sea water]	Mass	1,37E-07	kg	(No statement)
Phosphate [Fresh water]	Mass	1,46E-05	kg	(No statement)
Phosphate [Inorganic emissions to fresh water]	Mass	1,74E-05	kg	(Literature)
Phosphate [Inorganic emissions to sea water]	Mass	8,99E-08	kg	(No statement)
Phosphorus [Inorganic emissions to agricultural soil]	Mass	6,61E-06	kg	(No statement)
Phosphorus [Inorganic emissions to air]	Mass	1,58E-06	kg	(No statement)
Phosphorus [Inorganic emissions to fresh water]	Mass	5,87E-08	kg	(No statement)
Phosphorus [Inorganic emissions to industrial soil]	Mass	9,19E-08	kg	(No statement)
Phosphorus [Inorganic emissions to sea water]	Mass	1,14E-08	kg	(No statement)
Pirimicarb [Pesticides to agricultural soil]	Mass	1,11E-11	kg	(No statement)
Platinum [Heavy metals to air]	Mass	1,92E-15	kg	(No statement)
Plutonium (Pu alpha) [Radioactive emissions to air]	Activity	4,13E-03	Bq	(Calculated)
Plutonium (Pu alpha) [Radioactive emissions to fresh water]	Activity	5,03E-01	Bq	(Calculated)
Plutonium (Pu238) [Radioactive emissions to air]	Activity	8,32E-09	Bq	(No statement)
Plutonium as residual product [Radioactive waste]	Mass	6,57E-08	kg	(Calculated)
Polonium (Po210) [Radioactive emissions to air]	Activity	1,14E-01	Bq	(No statement)
Polonium (Po210) [Radioactive emissions to fresh water]	Activity	9,82E-02	Bq	(No statement)
Polonium (Po210) [Radioactive emissions to sea water]	Activity	8,13E-03	Bq	(No statement)
Polychlorinated biphenyls (PCB unspecified) [Halogenated organic emissions to air]	Mass	8,09E-11	kg	(No statement)
Polychlorinated dibenzo-p-dioxins (2,3,7,8 - TCDD) [Halogenated organic emissions to air]	Mass	1,51E-11	kg	(Literature)
Polychlorinated dibenzo-p-dioxins (2,3,7,8 - TCDD) [Halogenated organic emissions to fresh water]	Mass	2,50E-14	kg	(Estimated)
Polycyclic aromatic hydrocarbons (PAH) [Group PAH to air]	Mass	2,77E-07	kg	(Literature)
Polycyclic aromatic hydrocarbons (PAH, unspec.) [Hydrocarbons to fresh water]	Mass	2,24E-06	kg	(Literature)
Polycyclic aromatic hydrocarbons (PAH, unspec.) [Hydrocarbons to sea water]	Mass	8,54E-09	kg	(No statement)
Polycyclic hydrocarbons [Organic emissions to air (group VOC)]	Mass	1,24E-12	kg	Measured
Populated PWB Iliad Module (E-Paper) [Flows]	Mass	3,80E-06	kg	(No statement)
Potassium (K40) [Radioactive emissions to air]	Activity	9,59E-03	Bq	(No statement)
Potassium (K40) [Radioactive emissions to fresh water]	Activity	1,23E-01	Bq	(No statement)
Potassium (K40) [Radioactive emissions to sea water]	Activity	6,44E-04	Bq	(No statement)

Appendix 2.9
LCI Data – Tablet e-paper newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Potassium [Fresh water]	Mass	1,36E-04	kg	(No statement)
Potassium [Inorganic emissions to fresh water]	Mass	4,95E-05	kg	(Literature)
Potassium [Inorganic emissions to sea water]	Mass	4,52E-06	kg	(No statement)
Propane [Group NMVOC to air]	Mass	4,24E-04	kg	(Literature)
Propanol (iso-propanol; isopropanol) [Group NMVOC to air]	Mass	1,93E-04	kg	Estimated
Propene (propylene) [Group NMVOC to air]	Mass	4,09E-06	kg	(Calculated)
Propene [Hydrocarbons to fresh water]	Mass	3,32E-08	kg	(No statement)
Propionaldehyde [Group NMVOC to air]	Mass	1,52E-11	kg	(No statement)
Propionic acid (propane acid) [Group NMVOC to air]	Mass	6,07E-08	kg	(Literature)
Propylene oxide [Group NMVOC to air]	Mass	2,66E-09	kg	(No statement)
Propylene oxide [Hydrocarbons to fresh water]	Mass	6,40E-09	kg	(No statement)
Protactinium (Pa234m) [Radioactive emissions to air]	Activity	8,62E-03	Bq	(No statement)
Protactinium (Pa234m) [Radioactive emissions to fresh water]	Activity	1,60E-01	Bq	(No statement)
R 11 (trichlorofluoromethane) [Halogenated organic emissions to air]	Mass	7,36E-07	kg	(Literature)
R 114 (dichlorotetrafluoroethane) [Halogenated organic emissions to air]	Mass	7,71E-07	kg	(Literature)
R 116 (hexafluoroethane) [Halogenated organic emissions to air]	Mass	2,81E-07	kg	Calculated
R 12 (dichlorodifluoromethane) [Halogenated organic emissions to air]	Mass	1,58E-07	kg	(Literature)
R 13 (chlorotrifluoromethane) [Halogenated organic emissions to air]	Mass	9,94E-08	kg	(Literature)
R 134a (tetrafluoroethane) [Halogenated organic emissions to air]	Mass	5,99E-08	kg	(No statement)
R 141b (dichloro-1-fluoroethane) [Halogenated organic emissions to air]	Mass	1,11E-06	kg	Estimated
R 142b (chlorodifluoroethane) [Halogenated organic emissions to air]	Mass	3,16E-08	kg	Estimated
R 21 (Dichlorofluoromethane) [Halogenated organic emissions to air]	Mass	6,53E-17	kg	(No statement)
R 22 (chlorodifluoromethane) [Halogenated organic emissions to air]	Mass	2,00E-07	kg	(Literature)
R 23 (trifluoromethane) [Halogenated organic emissions to air]	Mass	2,08E-14	kg	(No statement)
Radioactive emissions (general) [Radioactive emissions to air]	Activity	1,78E-02	Bq	(No statement)
Radioactive isotopes (unspecific) [Radioactive emissions to air]	Activity	1,50E-01	Bq	(No statement)
Radioactive isotopes (unspecific) [Radioactive emissions to fresh water]	Activity	5,93E+01	Bq	(No statement)
Radioactive tailings [Radioactive waste]	Mass	1,94E-02	kg	(Calculated)
Radium (Ra224) [Radioactive emissions to fresh water]	Activity	1,11E-01	Bq	(No statement)
Radium (Ra224) [Radioactive emissions to sea water]	Activity	5,34E-02	Bq	(No statement)
Radium (Ra226) [Radioactive emissions to air]	Activity	2,96E-01	Bq	(No statement)
Radium (Ra226) [Radioactive emissions to fresh water]	Activity	2,07E+03	Bq	(Literature)
Radium (Ra226) [Radioactive emissions to sea water]	Activity	9,14E-02	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to air]	Activity	3,88E-03	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to fresh water]	Activity	2,22E-01	Bq	(No statement)
Radium (Ra228) [Radioactive emissions to sea water]	Activity	1,07E-01	Bq	(No statement)
Radon (Rn220) [Radioactive emissions to air]	Activity	3,63E-05	Bq	(No statement)
Radon (Rn222) [Air]	Activity	1,12E+06	Bq	(No statement)
Radon (Rn222) [Radioactive emissions to air]	Activity	9,10E+04	Bq	(Literature)
Radon (Rn-daughter nukleade) [Radioactive emissions to	Activity	1,33E-13	Bq	(No statement)

Appendix 2.9
LCI Data – Tablet e-paper newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
air]				
Red mud (wet) (3% NaOH) [Hazardous waste for disposal]	Mass	2,47E-04	kg	Measured
Residues for incineration [Waste for disposal]	Mass	5,98E-07	kg	Calculated
Rolling tinder [Waste for recovery]	Mass	7,12E-06	kg	Calculated
Rubidium [Inorganic emissions to fresh water]	Mass	3,90E-08	kg	(No statement)
Ruthenium (Ru103) [Radioactive emissions to air]	Activity	4,18E-10	Bq	(No statement)
Ruthenium (Ru103) [Radioactive emissions to fresh water]	Activity	4,06E-07	Bq	(No statement)
Ruthenium (Ru106) [Radioactive emissions to fresh water]	Activity	1,18E-01	Bq	Calculated
Scandium [Fresh water]	Mass	4,67E-08	kg	(No statement)
Scandium [Inorganic emissions to air]	Mass	2,25E-09	kg	(Calculated)
Scandium [Inorganic emissions to fresh water]	Mass	1,14E-08	kg	(No statement)
Selenium [Fresh water]	Mass	1,12E-07	kg	(No statement)
Selenium [Heavy metals to air]	Mass	9,73E-07	kg	(Literature)
Selenium [Heavy metals to fresh water]	Mass	4,54E-07	kg	(Literature)
Selenium [Heavy metals to industrial soil]	Mass	5,22E-11	kg	(No statement)
Selenium [Heavy metals to sea water]	Mass	3,29E-10	kg	(No statement)
Sewage sludge (waste water processing) [Hazardous waste]	Mass	2,96E-04	kg	Calculated
Silicium tetrafluoride [Inorganic emissions to air]	Mass	1,37E-11	kg	(No statement)
Silver (Ag110m) [Radioactive emissions to air]	Activity	4,14E-09	Bq	(No statement)
Silver (Ag110m) [Radioactive emissions to fresh water]	Activity	8,65E-02	Bq	(Literature)
Silver [Fresh water]	Mass	1,54E-10	kg	(No statement)
Silver [Heavy metals to agricultural soil]	Mass	9,53E-12	kg	(No statement)
Silver [Heavy metals to air]	Mass	4,53E-13	kg	(No statement)
Silver [Heavy metals to fresh water]	Mass	1,28E-08	kg	(Literature)
Silver [Heavy metals to sea water]	Mass	6,41E-10	kg	(No statement)
Slag (Iron plate production) [Waste for recovery]	Mass	5,33E-02	kg	(Measured)
Slag [Hazardous waste]	Mass	2,25E-02	kg	(Literature)
Slag [Waste for recovery]	Mass	2,19E-02	kg	(Literature)
Sludge [Hazardous waste]	Mass	4,64E-02	kg	(Literature)
Sodium (Na24) [Radioactive emissions to fresh water]	Activity	1,46E-05	Bq	(No statement)
Sodium [Fresh water]	Mass	6,20E-05	kg	(No statement)
Sodium [Inorganic emissions to fresh water]	Mass	6,40E-02	kg	(Literature)
Sodium [Inorganic emissions to sea water]	Mass	3,27E-04	kg	(No statement)
Sodium chlorate [high population density]	Mass	9,35E-10	kg	(No statement)
Sodium chloride (rock salt) [Inorganic intermediate products]	Mass	7,40E-05	kg	Calculated
Sodium dichromate [high population density]	Mass	1,01E-08	kg	(No statement)
Sodium formate [high population density]	Mass	9,90E-12	kg	(No statement)
Sodium formate [Hydrocarbons to fresh water]	Mass	2,38E-11	kg	(No statement)
Sodium hypochlorite [Inorganic emissions to fresh water]	Mass	2,47E-07	kg	(Calculated)
Soil loss by erosion into water [Particles to fresh water]	Mass	7,03E-07	kg	Literature
Solder paste waste [Hazardous waste for recovery]	Mass	1,07E-03	kg	Estimated
Solids (dissolved) [Analytical measures to fresh water]	Mass	8,87E-04	kg	(Literature)
Solids (suspended) [Fresh water]	Mass	2,38E-03	kg	(No statement)
Solids (suspended) [Particles to fresh water]	Mass	5,73E-03	kg	(Literature)
Solids (suspended) [Particles to sea water]	Mass	9,83E-05	kg	(No statement)
Steam [Inorganic emissions to air]	Mass	2,17E+01	kg	(Calculated)
Steel works slag [Waste for recovery]	Mass	1,23E-04	kg	Calculated
Strontium (Sr89) [Radioactive emissions to fresh water]	Activity	3,71E-03	Bq	(No statement)
Strontium (Sr90) [Radioactive emissions to fresh water]	Activity	8,12E+00	Bq	(Literature)

Appendix 2.9
LCI Data – Tablet e-paper newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Strontium (Sr90) [Radioactive emissions to sea water]	Activity	1,26E+00	Bq	(No statement)
Strontium [Fresh water]	Mass	9,33E-06	kg	(No statement)
Strontium [Heavy metals to agricultural soil]	Mass	1,10E-10	kg	(No statement)
Strontium [Heavy metals to fresh water]	Mass	2,06E-05	kg	(Literature)
Strontium [Heavy metals to industrial soil]	Mass	1,84E-08	kg	(No statement)
Strontium [Heavy metals to sea water]	Mass	6,42E-06	kg	(No statement)
Strontium [Inorganic emissions to air]	Mass	1,03E-07	kg	(Calculated)
Styrene [Group NMVOC to air]	Mass	1,24E-10	kg	(No statement)
Sulphate [Fresh water]	Mass	8,31E-04	kg	(No statement)
Sulphate [Inorganic emissions to fresh water]	Mass	1,65E-02	kg	(Literature)
Sulphate [Inorganic emissions to sea water]	Mass	1,14E-05	kg	(No statement)
Sulphide [Inorganic emissions to fresh water]	Mass	7,27E-08	kg	(Literature)
Sulphide [Inorganic emissions to sea water]	Mass	1,49E-08	kg	(No statement)
Sulphite [Inorganic emissions to fresh water]	Mass	2,77E-06	kg	(Literature)
Sulphur [Inorganic emissions to agricultural soil]	Mass	8,97E-06	kg	(No statement)
Sulphur [Inorganic emissions to fresh water]	Mass	5,86E-07	kg	(No statement)
Sulphur [Inorganic emissions to industrial soil]	Mass	1,10E-06	kg	(No statement)
Sulphur [Inorganic emissions to sea water]	Mass	1,58E-08	kg	(No statement)
Sulphur dioxide [Inorganic emissions to air]	Mass	6,06E-02	kg	(Literature)
Sulphur hexafluoride [Inorganic emissions to air]	Mass	3,69E-07	kg	(Literature)
Sulphuric acid [Inorganic emissions to air]	Mass	6,42E-08	kg	(Calculated)
Tailings [Stockpile goods]	Mass	7,04E+00	kg	(Literature)
Tebutam [Pesticides to agricultural soil]	Mass	3,42E-11	kg	(No statement)
Technetium (Tc99m) [Radioactive emissions to fresh water]	Activity	4,44E-05	Bq	(No statement)
Teflubenzuron [Pesticides to agricultural soil]	Mass	3,06E-12	kg	(No statement)
Tellurium (Te123m) [Radioactive emissions to fresh water]	Activity	3,04E-03	Bq	(No statement)
Tellurium (Te132) [Radioactive emissions to fresh water]	Activity	1,11E-07	Bq	(No statement)
Tetrafluoromethane [Halogenated organic emissions to air]	Mass	2,81E-06	kg	Measured
Thallium [Fresh water]	Mass	1,89E-08	kg	(No statement)
Thallium [Heavy metals to air]	Mass	1,15E-09	kg	(Calculated)
Thallium [Heavy metals to fresh water]	Mass	4,79E-09	kg	(Measured)
Thorium (Th228) [Radioactive emissions to air]	Activity	1,02E-03	Bq	(No statement)
Thorium (Th228) [Radioactive emissions to fresh water]	Activity	4,43E-01	Bq	(No statement)
Thorium (Th228) [Radioactive emissions to sea water]	Activity	2,14E-01	Bq	(No statement)
Thorium (Th230) [Radioactive emissions to air]	Activity	1,08E+01	Bq	(No statement)
Thorium (Th230) [Radioactive emissions to fresh water]	Activity	2,18E+01	Bq	(No statement)
Thorium (Th232) [Radioactive emissions to air]	Activity	1,44E-03	Bq	(No statement)
Thorium (Th232) [Radioactive emissions to fresh water]	Activity	2,30E-02	Bq	(No statement)
Thorium (Th234) [Radioactive emissions to air]	Activity	8,63E-03	Bq	(No statement)
Thorium (Th234) [Radioactive emissions to fresh water]	Activity	1,60E-01	Bq	(No statement)
Tin [Fresh water]	Mass	9,25E-06	kg	(No statement)
Tin [Heavy metals to agricultural soil]	Mass	3,56E-09	kg	(No statement)
Tin [Heavy metals to air]	Mass	1,99E-06	kg	(Calculated)
Tin [Heavy metals to fresh water]	Mass	1,42E-08	kg	(Literature)
Titanium [Heavy metals to agricultural soil]	Mass	9,30E-07	kg	(No statement)
Titanium [Heavy metals to air]	Mass	5,27E-07	kg	(Calculated)
Titanium [Heavy metals to fresh water]	Mass	4,92E-07	kg	(Literature)
Titanium [Heavy metals to sea water]	Mass	1,71E-10	kg	(No statement)
Toluene (methyl benzene) [Group NMVOC to air]	Mass	1,48E-05	kg	(Literature)
Toluene (methyl benzene) [Hydrocarbons to fresh water]	Mass	2,08E-06	kg	(Literature)

Appendix 2.9
LCI Data – Tablet e-paper newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
Toluene (methyl benzene) [Hydrocarbons to sea water]	Mass	1,54E-07	kg	(No statement)
Top Cover (E-Paper) [Flows]	Mass	2,05E-01	kg	(No statement)
Total dissolved organic bounded carbon [Analytical measures to fresh water]	Mass	2,70E-04	kg	(Literature)
Total dissolved organic bounded carbon [Analytical measures to sea water]	Mass	3,79E-05	kg	(No statement)
Total organic bounded carbon [Analytical measures to fresh water]	Mass	3,44E-03	kg	(Literature)
Total organic bounded carbon [Analytical measures to sea water]	Mass	3,79E-05	kg	(No statement)
Total organic carbon, TOC (Ecoinvent) [Fresh water]	Mass	5,97E-04	kg	(No statement)
Treatment residue (mineral) [Stockpile goods]	Mass	1,31E-02	kg	(Calculated)
Tributyltinoxide [Pesticides to sea water]	Mass	3,85E-08	kg	(No statement)
Trichloromethane (chloroform) [Halogenated organic emissions to air]	Mass	6,69E-10	kg	(No statement)
Trichloromethane (chloroform) [Halogenated organic emissions to fresh water]	Mass	6,53E-17	kg	(No statement)
Triethylene glycol [Hydrocarbons to sea water]	Mass	1,16E-08	kg	(No statement)
Tungsten [Fresh water]	Mass	3,48E-08	kg	(No statement)
Tungsten [Heavy metals to fresh water]	Mass	2,38E-08	kg	(No statement)
Unused primary energy from solar energy [Other emissions to air]	Mass	3,28E-10	kg	Estimated
Uranium (total) [Radioactive emissions to air]	Activity	1,57E+00	Bq	(Literature)
Uranium (U234) [Radioactive emissions to air]	Activity	3,81E-01	Bq	(Literature)
Uranium (U234) [Radioactive emissions to fresh water]	Activity	1,92E-01	Bq	(No statement)
Uranium (U235) [Radioactive emissions to air]	Activity	1,84E-02	Bq	(Literature)
Uranium (U235) [Radioactive emissions to fresh water]	Activity	3,16E-01	Bq	(No statement)
Uranium (U238) [Radioactive emissions to air]	Activity	6,49E-01	Bq	(Literature)
Uranium (U238) [Radioactive emissions to fresh water]	Activity	5,30E-01	Bq	(No statement)
Uranium (U238) [Radioactive emissions to sea water]	Activity	2,73E-03	Bq	(No statement)
Uranium [Radioactive emissions to fresh water]	Activity	4,54E+01	Bq	(Estimated)
Uranium depleted [Radioactive waste]	Mass	7,58E-05	kg	(Calculated)
Uranium spent as residue [Radioactive waste]	Mass	1,41E-09	kg	(Calculated)
Used air [Other emissions to air]	Mass	2,29E+00	kg	(Measured)
Vanadium [Fresh water]	Mass	8,97E-07	kg	(No statement)
Vanadium [Heavy metals to agricultural soil]	Mass	2,66E-08	kg	(No statement)
Vanadium [Heavy metals to air]	Mass	4,00E-06	kg	(Literature)
Vanadium [Heavy metals to fresh water]	Mass	1,00E-06	kg	(Literature)
Vanadium [Heavy metals to sea water]	Mass	6,56E-10	kg	(No statement)
Waste (unspecified) [Consumer waste]	Mass	1,14E-02	kg	(Calculated)
Waste heat [Fresh water]	Energy	1,87E-03	MJ	(No statement)
Waste heat [Other emissions to air]	Energy	8,97E+01	MJ	(Literature)
Waste heat [Other emissions to fresh water]	Energy	1,49E+01	MJ	(Calculated)
Waste paper [Waste for recovery]	Mass	4,26E-05	kg	Measured
Waste radioactive [Radioactive waste]	Mass	6,42E-05	kg	(Literature)
Waste water [Other emissions to fresh water]	Mass	3,78E+02	kg	(Measured)
Waste water processing residue [Hazardous waste for recovery]	Mass	2,04E-01	kg	Literature
Water (desalinated; deionized) [Operating materials]	Mass	6,59E-04	kg	Calculated
Vinyl chloride (VCM; chloroethene) [Halogenated organic emissions to air]	Mass	1,01E-08	kg	(No statement)
Vinyl chloride (VCM; chloroethene) [Halogenated organic emissions to fresh water]	Mass	2,16E-10	kg	(No statement)
VOC (unspecified) [Organic emissions to air (group VOC)]	Mass	5,76E-04	kg	(Literature)

Appendix 2.9
LCI Data – Tablet e-paper newspaper, Swedish scenario

Flow - Outputs	Quantity	Amount	Unit	Origin of data
VOC [Organic emissions to fresh water]	Mass	1,18E-06	kg	(No statement)
VOC [Organic emissions to sea water]	Mass	3,74E-07	kg	(No statement)
Volatile fission products (inert gases;iodine;C14) [Radioactive waste]	Mass	2,29E-09	kg	(Estimated)
Xenon (Xe131m) [Radioactive emissions to air]	Activity	3,49E+00	Bq	(Literature)
Xenon (Xe133) [Radioactive emissions to air]	Activity	5,59E+02	Bq	(Literature)
Xenon (Xe133m) [Radioactive emissions to air]	Activity	4,57E+00	Bq	(Literature)
Xenon (Xe135) [Radioactive emissions to air]	Activity	1,63E+02	Bq	(Literature)
Xenon (Xe135m) [Radioactive emissions to air]	Activity	3,00E+01	Bq	(Literature)
Xenon (Xe137) [Radioactive emissions to air]	Activity	5,94E-02	Bq	(Literature)
Xenon (Xe138) [Radioactive emissions to air]	Activity	6,79E+00	Bq	(Literature)
Xylene (dimethyl benzene) [Group NMVOC to air]	Mass	1,13E-04	kg	(Calculated)
Xylene (isomers; dimethyl benzene) [Hydrocarbons to fresh water]	Mass	1,36E-05	kg	(Literature)
Xylene (isomers; dimethyl benzene) [Hydrocarbons to sea water]	Mass	1,27E-07	kg	(No statement)
Xylene (meta-Xylene; 1,3-Dimethylbenzene) [Group NMVOC to air]	Mass	6,12E-07	kg	(No statement)
Zinc (Zn65) [Radioactive emissions to air]	Activity	8,00E-08	Bq	(No statement)
Zinc (Zn65) [Radioactive emissions to fresh water]	Activity	1,97E-04	Bq	(No statement)
Zinc [Fresh water]	Mass	4,87E-06	kg	(No statement)
Zinc [Heavy metals to agricultural soil]	Mass	1,47E-06	kg	(No statement)
Zinc [Heavy metals to air]	Mass	1,33E-05	kg	(Literature)
Zinc [Heavy metals to fresh water]	Mass	4,72E-06	kg	(Literature)
Zinc [Heavy metals to industrial soil]	Mass	1,55E-05	kg	(Measured)
Zinc [Heavy metals to sea water]	Mass	1,40E-06	kg	(No statement)
Zinc sulphate [Inorganic emissions to air]	Mass	2,07E-08	kg	Measured
Zirconium (Zr) [Air]	Mass	1,84E-11	kg	(No statement)
Zirconium (Zr95) [Radioactive emissions to air]	Activity	7,82E-08	Bq	(No statement)
Zirconium (Zr95) [Radioactive emissions to fresh water]	Activity	2,29E-06	Bq	(No statement)