

## ATTACHMENT C.1

### Schedule of variations and communications



IPC approved  
changes1.doc

### UPDATED DRAWING SCHEDULE



"Drawing List1.pdf"

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### Schedule of variations and communications

Approval Date	IPC licence condition	Agreed Change	EPA Reference
	1.2	Application for permission to introduce a new process "L-Glucose" CAS 921-60-8	
09 August 2006	1.2 & 7.1 & 7.2	To add two new facilities to approved list of waste facilities (Scoribril & Holcim)	PO134-2/ap46pc.doc
01 August 2006	1.2 & 7.1 & 7.2	<ul style="list-style-type: none"> <li>• To consign waste oils to Rilta LTD. t/a Site Environmental</li> <li>• To consign electrical and electronic waste to Tech Rep Ireland Ltd</li> </ul>	PO134-2/ap45smcc.doc
28 July 2006	1.2	To manufacture 2,6-Dibromo-2, 6-Dideoxy-D mannono-1,4-lactone	PO134-2/nc08smcc.doc#
28 July 2006	1.2	Installation of one new fume fan and a new minor air emission point A2/26	PO134-2/nc08smcc.doc#
21 July 2006		IPPC Register Number Change	
11 April 2006	1.2	To manufacture 4 phenyl quinuclidine	M461/ap44smcc.doc
20 March 2006	1.2	To Manufacture Dimethyl Fumarate	M461/ap43smcc.doc
21 December 2006	6	Replacing final effluent toxicity testing on marine bacteria (vibro) with a respirometry test due to discharge now going to Carrigrennan and not to the marine environment	M461/ap42smcc.doc
24 November 2005	1.2 & 7.1 & 7.2	To consign waste to Remat, Netherlands	M461/ap41smcc.doc
24 November 2005	1.2 & 7.1 & 7.2	To consign WWTP sludge to AVR Safeway and onto Remondis, Germany	M461/ap41smcc.doc
24 November 2005	1.2 & 7.1 & 7.2	To consign hazardous waste to NV Afvalverwerking Rijnmond, Holland	M461/ap41smcc.doc
11 October 2005	1.2	Introduction of new process to manufacture Gatifloxacin	M461/ap40smcc.doc
15 June 2005	1.2	To introduce a new process to manufacture Benzphetamine HCL	M461/ap39smcc.doc
14 June 2005	1.2 & 7.1 & 7.2	To use Cedar Waste Management Facilities Waste Transfer Station in Dublin	M461/ap38smcc.doc
23 May 2005	1.2 & 7.1 & 7.2	To use AVG GmbH, Hamburg for disposal of hazardous wastes EWC codes 160508 & 200114	M461/ap37smcc.doc
19 April 2005	1.2 & 7.1 & 7.2	To use AVG GmbH, Hamburg for disposal of hazardous wastes EWC codes 070501, 070503, 070504, 070513	M461/ap36smcc.doc
16 March 2005	1.2	Proposed minor alteration to activity –	M461/ap35smcc.doc

Approval Date	IPC licence condition	Agreed Change	EPA Reference
		<ul style="list-style-type: none"> <li>• installation of new fumehoods &amp; HEPA filters</li> <li>• modify flowrates to one existing emission point</li> </ul>	
19 October 2004		<ul style="list-style-type: none"> <li>• PER Proposal</li> <li>• Toxicity testing proposal (T. Battagliai)</li> <li>• Use of AVR-Safeway and Haltermanns (for collection and recovery of waste code 070504)</li> </ul>	M461/ap34smcc.doc
15 October 2004	1.2	Approval to manufacture Benzphetamine HCl on site	M461/rf07smcc.doc
04 October 2004	1.2	Approval to manufacture Dipipanone HCl on site	M461/ap33smcc.doc
	1.2	Application to modify handling of domestic sewage by connecting old sewage pipeline to line from newer part of plant which runs directly to Cork Co. Co. treatment facility	Application sent on 02 June 2004 Cambrex ref: L/06-04
	1	<ul style="list-style-type: none"> <li>• Application for approval to Re-Build PB1 Neutralisation System</li> <li>• Application for approval to build extension to the PB1 HVAC System</li> <li>• Application for approval to build extension to the PB2 Ventilation System</li> </ul>	Applications sent on 20 April 2004 & 02 June 2004
	2.2.1	<ul style="list-style-type: none"> <li>• Application for approval for installation of 3 fumehoods</li> </ul>	Application sent on 13 January 2004
09 October 2003	1.2	Manufacture of Morphine 6 Glucuronide on a pilot scale	M461/c1204apilotmorp.doc
12 June 2003	1.2 & 7.1 & 7.2	<ul style="list-style-type: none"> <li>• The transport of WWTP by Cara Environment Technology of WWTP to Innovatherm, Germany via Betram and Collins waste disposal</li> <li>• Disposal and transfer sludge to Glancre Teoranta via Hickey Haulage</li> </ul>	M461/ap30apsludge.doc
20 May 2003	7.1	Approval for use of Murphy Transport Ltd. and Molloy & Sherry Transport Ltd to transport waste solvent	M461/ap29apwaste.doc
01 May 2003	7.1	Use of Little Island Transport Co. for waste collection	M461/ap28apwaste.doc
30 April 2003	4.1 (EPA	Bypasses notified to agency when TO in	

Approval Date	IPC licence condition	Agreed Change	EPA Reference
	Audit Finding, 25/04/03 Inspection date)	Standby mode and there is no production at the plant. Such bypasses do not be notified. Maintain records on site.	
23 April 2003	7.1	Use of a list of waste collection contractors: <ul style="list-style-type: none"> <li>• Atlas Ireland</li> <li>• JP Ryan &amp; Sons Ltd</li> <li>• Cara Environmental</li> <li>• Cork Metal Company Ltd</li> <li>• Irish Lamp Recycling Co. Ltd</li> <li>• Indaver Ireland</li> <li>• Minchem Environmental Services Ltd</li> <li>• Lehane Environmental &amp; Industrial Services Ltd</li> <li>• Tank Trans Ltd</li> <li>• S Transport Cork Ltd</li> <li>• Rehab Recycling Partnership</li> <li>• Retrunbatt Ltd</li> <li>• Johnson Haulage Ltd</li> </ul>	M461/ap25apwastecollect.doc
23 April 2003	1.2	Upgrade of WWTP (installation of Nitrogen removal system, new balance tank and aerobic sludge digestion system)	M461/ap27apwwtp.doc
23 April 2003	1.2	Installation of new gas fired Boiler	M461/ap26apboiler.doc
08 April 2003	IPC licence	New legal provision in relation to Waste Collection and Waste Movement e.g. must get prior written agreement from Agency for amendments to waste classification or consignments/disposal/recovery arrangements	Reg. No.461
21 March 2003		EMP & schedule of objectives and targets	M461/c106apaer.doc
10 March 2003	1.2	Installation of De-Ionised Water System for PB1 consisting of a storage tank and a UV sterilisation unit	M461/c1203apwater.doc
03 February 2003	1.2 & 7.1 & 7.2	Approval for shipment of Waste Solvent to SRM, Sunderland for solvent recovery	M461/ap24apSRM.doc
30 December 2002	1.2 & 7.1 & 7.2	To use KMK metal recycling	M461/ap24apSRM.doc
11 December 2002	IPC Reporting	To submit AERs by 31 march of each year	Reg No 461
27 November 2002	1.2 & 7.1 & 7.2	Approval to use Midland Scrap Metal Ltd for waste glass	M461/ap23apaf.doc

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12 November 2002	1.2	To manufacture the final step (step 3) of the Citalprom process	M461/ap22af.doc
29 October 2002	1.2 & 7.1 & 7.2	Conditional approval to use McGill Environmental for composting of WWTP sludge	M461/gc37af.doc
23 October 2002	8.2 & 8.3	Noise programme proposal	M461/ap21af.doc
23 October 2002	1.2 & 7.1 & 7.2	Use of SRM Ltd facility, Lancashire, England for treatment of liquid waste via Cara Environmental Technology	M461/ap20af.doc
23 October 2002	1.2	Use of upgraded generator plant for the provision of emergency purposes	M461/ap20af.doc
17 October 2002		Name Change from Irotec Laboratories to Cambrex Profarmaco Cork Ltd.	M461/gc36ew.doc
	1.2	Application to introduce new Process: Morphine 6 Glucuronide	Application sent on 12 September 2002
06 August 2002	1.2	Introduction of a process (steps 1 & 2) to produce Citalopram	M461/ap19af.doc
04 June 2002	1.2 & 7.1 & 7.2	Use of Buchen Umwelt Service GmBH waste transfer station	M461/gc31af.doc
15 April 2002		Use of an alternative calibration regime for THC and HCL analysers	M461/GC30af.doc
19 December 2001	1.2 & 7.1 & 7.2	To use Soltec for recovery of liquid waste	M134/ap17af.doc
19 December 2001	1.2	To change monitoring equipment form an IR HCL analyser to a Fuel Chemical Cell HCL analyser	M134/ap18af.doc
16 November 2001	8.2 & 8.3	Noise programme proposal	M461/AP/ap16af.doc
16 November 2001	8.2	Application for proposed remedial and preventative action to reduce noise emissions from 1) Glycol pumps and 2) Boiler House	Application sent on 16 November 2001
15 October 2001	1.2	Approval for pilot plant scale production of Tribenoside	M461/AP/ap15af.doc
24 September 2001	1.2	Upgrade of HCL systems in PB1 & PB2	M461/AP/ap14af.doc
30 August 2001	1.2 & 7.1 & 7.2	Use of Edelhoff Facility for incineration of Hazardous Waste	M461/AP/13
15 August 2001	1.2 & 7.1 & 7.2	Using Indaver Ireland for shipping newspaper and magazines to the Stora Enso mill, Belgium	M461/AP/12
16 August 2001	1.2 & 7.1 & 7.2	To ship liquid waste for incineration and recovery at Distillex, Tyne and Wear	M461/AP/11
16 August 2001	1.2	Installation of 2 storage tanks in the PB2 tank farm and dump tank system to facilitate operation in PB1	M461/AP/10
02 July 2001		PER proposal and EMP proposal	M461/AP/09

Approval Date	IPC licence condition	Agreed Change	EPA Reference
23 January 2001	Audit Finding	Where THC Mass load exceeds 2kg and conc. Limits for class II organics are exceeded the agency is to be notified	M461/GC
23 January 2001	Audit Finding	Bypasses that occur during maintenance do not need to be reported but are to be used for cause analysis	M461/GC
23 January 2001	Audit Finding	When TO down or calibration being completed on monitors, then alternative sampling arrangements are to be agreed with Agency	M461/GC
03 January 2001	10.4	Alternative monitoring proposals during monthly calibration of the thermal oxidiser	M461/AP/08/ap
10 November 2000		Determination of Total Nitrogen in effluent samples using the HACH method	
25 September 2000	1.2 & 7.1 & 7.2	To ship liquid waste streams for incineration and recovery to cleanway Limited, UK	
15 August 2000	1.2	Alteration to the reference conditions contained in section 3.2.2: To remove the requirement to correct to a reference of 18% oxygen is due to an error contingent upon the following: To measure on a quarterly basis mass loadings of organic compounds before and after TO	Reg No:461/C12/02
27 July 2000		EMP dated 04/05/2000: contingent upon: Nitrogen and ammonia reduction should be amended to ensure that the total nitrogen discharges are reduced in line with ammonia	M461/AP/05
15 June 2000	1.2 & 7.1 & 7.2	Use of Shanks Waste Solutions, UK for hazardous waste incineration	M461/AP/04
03 December 1999	1.2	Increase in ELV for Total Nitrogen: to be the same as ELV for ammonia	Reg No 461
14 October 1999		Approval for disposal of contaminated Soil	M461/AP/03
20 September 1999		Approval for effluent toxicity monitoring; laboratory and scope of testing to be carried out	M461/GC
28 July 1999	5.2.1	Test Programme for Thermal Oxidiser	M461/AP/02
21 July 1999	1.2	Introduction of 3 new materials, Trimipramine Maleate, Trimipramine Mesylate and Trimipramine on a pilot scale	M461/Ak/1

Approval Date	IPC licence condition	Agreed Change	EPA Reference
15 June 1999	8.2 & 8.3	Noise survey proposal	M461/AP/01
03 June 1999	Licence No M461	Agency Grant a revised IPC licence	Reg No.461

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**Irotec Laboratories - List of IPC drawings**

First Issue 06-July-1998

Revised 4-October-2001

Drawing No.	Rev	Drawing Description
IPC .101	C	Site Layout Plan Showing National Grid Reference
IPC .102	E	Site Layout Plan With Location of Site Notice Indicated
IPC .103	3	Location Drawing Indicating Major Air Emission Points
IPC .104	2	Location Map Indicating Minor Air Emissions
IPC .105	B	Location Map Indicating Potential Air Emissions
IPC .106	A	5 km Radius Map Indicating Sensitive Areas
IPC .107	B	Site Location Map Indicating Surface & Cooling Water Discharge Point
IPC .108 A	A S/S	Sources of Waste Water
IPC .108 B	C	Sources of Waste Water - After Production Building 2 is commissioned
IPC .109	B	Location of Waste Water Treatment Plant and Discharge point for Treated Effluent
IPC .110	3	Foul Sewer & Domestic Treatment Layout Plan
IPC .011	2 S/S	Process Drains Layout Plan (up to 20 <sup>th</sup> Sept 1998)
IPC .111	C	Process Drains Layout Plan
IPC .112	C	Surface Water Drains - Non Process Areas Layout Plan
IPC .113A	A S/S	Surface Water drains Non Process Areas layout Plan
IPC .113B	D	Surface Water Drains Non Process Areas also showing Proposed Diversions layout Plan
IPC .114	C	Location Map - Boundary Noise Sampling Points
IPC .115	C	Noise Sources Layout Plan
IPC .116	C	Site Layout Plan - Emission Points
IPC .117	F	Site Layout Plan - Boreholes & Wells
IPC .118	1 S/S	Site Layout Plan - Location Plan of Piperacks
IPC .119	D	Site Layout Plan Indicating Location of all Activities, Identifying Buildings & Facilities
IPC .120	D	Site Layout Plan - Water Distribution
IPC .121	C	Site Layout Plan - Steam Generation & Distribution
IPC .122A	A S/S	Site Layout Plan - Power Distribution (15 <sup>th</sup> June 1998)
IPC .122B	D	Site Layout Plan - Power Distribution
IPC .123	C	Site Layout Plan - Indicating Abatement System Locations
IPC .124	B	Site Location Map - Waste Storage Areas
IPC .125	B	Site layout Showing Location of Thermal Oxidizer
IPC .126	5	Site Layout Plan Location of Bunded Areas
IPC .127A	A S/S	Location of Irotec Ambient Air Monitoring Positions
IPC .127B	B	Location of Irotec Proposed Air Monitoring Positions
IPC .128	2	Location Map Indicating Tank Farm Contents
IPC .129		See Fig.4.3.2.
IPC .130		Location of Sensitive Areas on Little Island
IPC .131	A S/S	Monitoring Chamber & Holding Tanks G.A.
IPC .132	A S/S	Waste Water System Upgrade
IPC .133	B	Noise Sources used for Acoustic Model
IPC .134	<del>B</del>	<del>Noise Sources used for Acoustic Model</del> SURFACE WATER Monitoring Points.
IPC .140	A S/S	Solvent Tank farm at PB2 Layout Plan
IPC .141	B	Site Layout showing Locations of External Lighting
IPC .142	A	Site Layout showing Route Bord Gais Mains
Fig.4.3.2.	1	Location of Irotec Site relative to neighbouring Lands and Sites