Attachment 1 Monitoring Results Effluent Emissions 2014 and 2015

Parameter Parameter	14/02/2014	28/03/2014	06/06/2014	04/07/2014	15/08/2014	11/11/2014	02/02/2015	08/05/2015	06/08/2015	09/10/2015	04/12/2015
TSS (mg/l)	<1	<1	<1	15.6	6.4	<1	50	89	<22.5	52	<10
pH (pH Units)	7	7	7.47	7.77	7.49	6.9	4.87	6.16	7.07	7.2	7.32
Ammonia as NH3-N (mg/l)	0.31	0.03	1.41	0.28	<0.01	<0.01	0.04	105			
COD (mg/l)	<1	<1	3.5	14	6	17	<1	19	15	12	<1
BOD (mg/l)	1.5	2	1.5	4.24	4.5	3.2	1.4		2.5	3.0	2.0
Total Nitrogen (mg/l)		<1					3.2				8.0
Sulphate (mg/l)		7					9.4				7.5
VOCs (mg/l)		<0.01				r Use.	<0.005 except below				<0.001 except below
Chloroform (mg/l)						other	0.008				0.0138
Dibromochloromethane (mg/l)					only						0.0028
Bromodichloromethane (mg/l)					Ses ed	3'					0.0075
SVOCs (mg/l)		<0.01			schon purper recipit		<0.05				<0.001 except below
Phenol (mg/l)				Tot opy	ht						0.0025
Total Coliforms (MPN/100ml)		<1		4001/6							
E/Coli (MPN/100ml)		<1		x of o			<1				
Cyanide (mg/l)				anself.			0.006				
Phosphate (mg/l)				C.			< 0.1				
Lead (mg/l)							< 0.06				< 0.006
Zinc (mg/l)							0.0894				0.049
Copper (mg/l)							0.0328				0.0096
Cadmium (mg/l)							< 0.0006				< 0.0006
Arsenic (mg/l)							< 0.001				< 0.001
Chromium (mg/l)							< 0.002				< 0.002
Nickel (mg/l)							0.0039				< 0.003
Mercury (mg/l)							< 0.0001				< 0.0001

Parameter	24/03/2016	22/09/2016	14/12/2016
TSS (mg/l)	<10	<12.5	<10
pH (pH Units)	7.33	7.32	7.60
Conductivity (uS/cm)			220
Ammonia as NH3-N (mg/l)			
COD (mg/l)	<10	<15	<15
BOD (mg/l)	<2	<2	
Total Nitrogen (mg/l)		4	4.7
Sulphate (mg/l)		<10	<10
VOCs (mg/l)	< 0.01	< 0.01	< 0.01
Chloroform (mg/l)		0.0147	0.00022
Dibromochloromethane (mg/l)		0.006	0.00024
Bromodichloromethane (mg/l)		0.012	0.00011
SVOCs (mg/l)	< 0.01	< 0.01	< 0.01
Phenol (mg/l)		0.0121	0.0143
Total Coliforms (MPN/100ml)	<1	<1	<1 F017
E/Coli (MPN/100ml)	<1	<1	<1 of of the state
Cyanide (mg/l)			0.012
Phosphate (mg/l)			< 0.075
Lead (mg/l)			
Zinc (mg/l)			
Copper (mg/l)			
Cadmium (mg/l)			
Arsenic (mg/l)			
Chromium (mg/l)			
Nickel (mg/l)			
Mercury (mg/l)			<0.0001

Attachment 1 Monitoring Results Effluent Emissions 2016

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Attachment 2 Monitoring Results for Stormwater Discharges at SW1 for 2014, 2015 and 2016

Parameter	Q1 2014	Q2 2014	Q3 2015	Q4 2015	Q1 2016	Q4 2016
TSS (mg/l)	<1	5	<22.5	<10	<10	<5
pH (Units)	7	7.55	5.25	7.34	7.51	6.53
Conductivity (uS/cm)	200.4	334		197		< 50
BOD (mg/l)			<2		<2	
COD (mg/l)			6		<15	
Sulphate (mg/l)					11.4	
Total Nitrogen (mg/l)					4.7	use.

4.7

For inspection purposes only of any other constitution of constitution of

GEA Westfalia Separator Ireland Limited, Coolroe, Ballincollig, Co Cork, Ireland

Attention: Mr. Nicholas Downey Ormond Organics



Phone +353 21 485 0222 Fax +353 21 485 0230 Michael.oconnell@gea.com

22.02.2017

Dear Nicholas

Re: P3926 - Quotation for 1 x UCF466 Decanter Centrifuge

With reference to our meeting yesterday please see below our agreed final quotation for a UCF466 decanter. This decanter centrifuge for waste water treatment sludge applications is suitable for up to 35 m3/hr at up to 8% ds with a solids loading of 400kg/h up to 900 kg/hr. Expected cake solids are 18-25%.

Performance will depend on the type of studge

We have included a control panel for control of the complete dewatering system including sludge pump, poly pump, and screw conveyor with an optional extra cost for an inverter for controlling a cake pump.

We hope this quotation meets with your approval and look forward to receiving your order next week. If you have any queries please do not hesitate to contact us.

Yours sincerely

Michael O'Connell Sales Engineer

GEA Westfalia Separator Ireland Limited



1. Technical Specification

1.1.



• UCF 466-00-35

The decanter UCF 466-00-35 is equipped with a patented differential drive system. Automatic regulation of the differential speed allows optimum clarification with maximum dry substance values and throughput capacities and high operating safety.

Technical specification:

bowl diameter: 460 mm bowl length: 2010 mm

I/d ratio:

bowl speed: 3.850 rpm g-force (z): 3.332

weight: approx. 2.920 kg

drive motor (bowl drive by frequency converter): operating voltage: 380 - 420 V rating: 37 kW

speed: 3.000 rpm (400 V / 50 Hz)

secondary motor (scroll drive by frequency converter):

operating voltage: 380 - 420 V frequency: 17 - 87 cycles

rating: 11 kW (400 V / 50 Hz)

15 kW (400 V / 87 Hz)

speed: 400-2800 rpm

Materials:

rotating product-contacting parts: 1.4462, 1.4571, 1.4306, 1.4301

stationary product-contacting parts: 1.4301

all other parts: painted steel (paint: green RAL 6011 structure)

Abrasion protection:

- scroll wear protection: hard-facing, tungsten carbide on Nickel base
- wear protection in bowl discharge ports: tempered cast iron bushes replaceable at site
- wear protection in solids collection chamber:
- wear liner replaceable at site



- wear protection in scroll distributor:
- wear liners replaceable at site

Included in the above machine price are:

- foundation frame and 1 set of rubber dampers for vibration insulation
- noise reduction parts
- Vibration sensor

Monitoring of vibration velocity to VDI 2056 and ISO 10816 from 10...1000 Hz

The vibration severity measurement is a very efficient monitoring method for detecting such common machine faults as imbalance, loose parts etc

The measurement returns the RMS value of vibration velocity in mm/s

· Set of tools

Set of special tools for UCF 466-00-35 The set of tools contains all tools necessary for regular maintenance.

1.2. Accessories

·Liquid Chute, horizontal Flange

material: Stainless steel 1.430 (AISI 304 with sampling cock and desagration connection discharge side, horizontal pange connection

•Solid Chute, vertical Flange (option horizontal flange)

material: Stainless steel 1.4301/AISI 304 discharge bottom, vertical

1.3. Control System

Control panel for control of complete dewatering system

Technical solutions in detail

Decanter Control unit DCU 8:

The DCU 8 consists of a Siemens Operator panel Touch version with a 5.7" graphic display and a compact PLC unit Siemens S7-314C-2DP. The combination of OP177B and S7-314C-2DP controls the decanter.

The current operation mode as well as all process parameters are displayed on the panel.

Start and stop of the decanter is done with fixed keys on the panel. Limit values are displayed on the panel and can be adjusted in a password protected mode.

Failure messages are displayed as a text message on the panel.



All failure messages are stored in the failure buffer.

Data exchange:

WS control cabinet to the client:

- Common alarm
- Decanter ready for operation
- Feed on

Client to WS control cabinet

- Decanter/ feed start external (not used with the interface option)
- · Solids path o.k.

The data exchange is done via hardwired signals as standard. As an option with additional price, the on board Profibus DP interface can be programmed.

Scope of supply:

Control System for UCF 466-00-35 Standard

Planning and production of the complete functional unit, comprising the decanter and a complete control system from GEA Westfalia Separator, offers all the benefits of our quality standard for all customers worldwide.

Our competence - your benefit

- Our control systems allow the centrifuge to work at a the optimal operating point, with best product yield and lowest possible energy consumption.
- Two possibilities to control the decapter (speed and torque based) makes continuous reaction on changing product conditions possible.
- Control systems from GEA Westfalia Separator control all parameters of the decanter, to allow automatic operation without operator staff all time.

System designed as Compact panel painted steel RAL7035 - max. ambient temperature < 35°C

- Cabinet cooling with common fan
- Degree of protection main control cabinet IP 54
- Control cabinet size approx. (WxHxD) 800x2100x500mm

Scope of control

- Decanter with main and secondary drive, both VFD driven, main drive 30KW, secondary drive 10,8 (60Hz)KW
- Speed, vibration measuring with standard sensors and bearing temperature measuring at the centrifuge
- Motor starter 5,5KW VFD Sludge pump
- Motor starter 1,5KW VFD Polymer pump
- Motor starter 2.2KW DOL Conveyor
- 3x valve 24V DC without feedback signals
- Basic hardware signal exchange. Start/ stop, common alarm, ready, in production

Technical issues

- Main power supply 380 420V / 50Hz
- Control voltage 230V AC / 24V DC
- Cable entry from bottom
- Core identification without

PLC (GEA IO basic version)



- The control cabinet will be equipped with a PLC type Siemens S7-1200 and an operator panel Siemens HMI TP700
- PLC equipped with assitance system
- no bus communication to a main PLS system

VFDs

- the control cabinet will be equipped with VFDs type Danfoss FC300

1.4. Commissioning

The machine will be commissioned by a service engineer after the mechanical and electrical installation are completed.

Consent of copyright owner required for any other use.



2. Commercial Terms

2.1. Price

Price for machine and equipment as specified above including commissioning

112,000.00€

2.2. Optional item

Additional price for including inverter and control for 11kw cake pump.

2,000.00€

Consent of copyright owner required for any other use.



COMMERCIAL CONDITIONS

Prices:

The above prices are net for delivery to Ireland site including seaworthy packaging (offloading by others). Prices are shown net applicable VAT or other duties.

Validity of Offer:

This offer is valid for 1 month

Delivery Time:

Normal delivery time is 14-16 weeks

Installation, Commissioning & Training:

4 days included

Warranty:

1 year from date of delivery

Payment:

30 % with order

10% on commissioning but no later than 3 months after delivery

Lifting Equipment:

Permanent lifting equipment must be installed over all Westfalia Separator centrifuges to facilitate ongoing maintenance. We will advise lifting weights and access/working space required around the machine for safe operation and maintenance.

Exclusions:

We are not responsible for the following; continued mechanical or electrical components not specifically mentioned

for

- any other services such as water power, etc. unless mentioned

Retention of Title:

GEA Westfalia Separator reserves its proprietary rights with regard to the delivery item until all payments foreseen in the contract have been made.

General:

This quotation is subject to our Standard Conditions of Sale & Installation except where otherwise agreed in writing. The aggregate liability for damages including penalties of the Seller to the Buyer shall in no case exceed 10% of the contract price. The liability for indirect or consequential damages like loss of profit, loss of production or other financial or economic losses of any kind is excluded. This offer is without engagement and is subject to a formal written Confirmation of Order.

Michael O'Connell Sales Engineer **GEA Westfalia Separator Ireland Limited**

Figure 1 - Schematic of WWTP

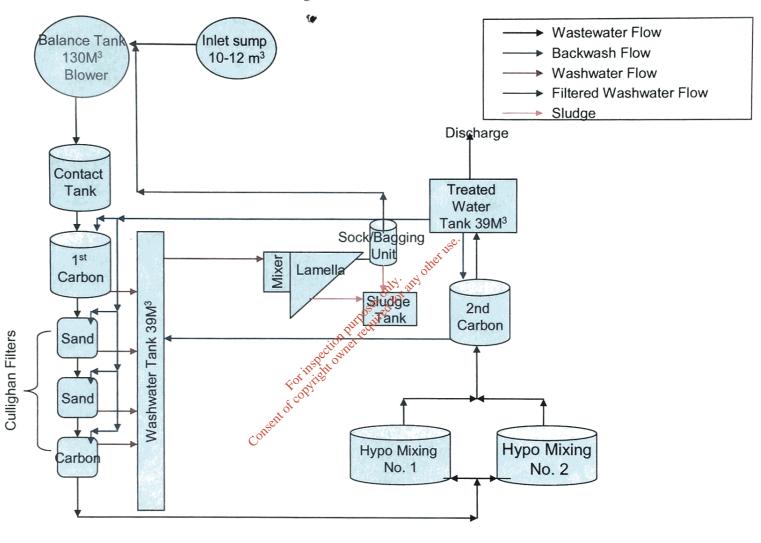
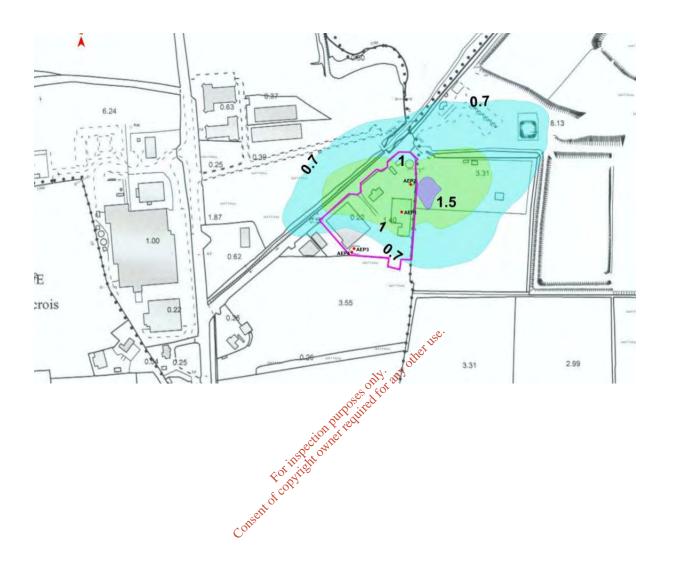


TABLE E.1(ii) $MAIN$ EMISSIONS TO ATMOSPHERE (1	1 Page	for each	emission	point)
---	--------	----------	----------	--------

Emission Point Ref. Nº:	A2		
Source of Emission:	Biofilter		
Location:	WWTP Are	a	
Grid Ref. (12 digit, 6E,6N): 209708E,	079819N	
Vent Details Diamete	er: 0.22 m		
Height above Ground(m): 2.75 m		Nec.
Date of commencement:	2007		other
naracteristics of Emis (i) Volume to be emi			ction out post soft in the state of the stat
Average/day	Nm³/d	Maximum/day to the following the first the fir	36,000 Nm ³ /d
Maximum rate/hour	2,000 Nm ³ /h	Min efflux velocity	m.sec ⁻¹
(ii) Other factors		Catre	<u>. I</u>
Temperature	°C(max)	°C(min)	°C(avg)
For Combustion Sources: Volume terms expressed	as: □ wet.	□ dry	%O ₂
volume terms expressed			
		missions are made, or are	re to be made, including daily or seasonal variations (start-up

Emission Point Ref. №:	A3								
Source of Emission:	Odour Con	dour Control Unit							
Location:	Materials R	aterials Recovery Building & AD Plant							
Grid Ref. (12 digit, 6E,6N): 209652E, (079780N							
Vent Details Diamete	er: 0.80 m								
Height above Ground(m): 15 m								
Date of commencement:			~O.						
Characteristics of Emis			out of reditied by any other res.						
(i) Volume to be em	rtted.		Durgaline						
Average/day	Nm³/d	Maximum/day	owner to		7	719,520 Nm ³ /d			
Maximum rate/hour	29,890 Nm ³ /h	Min efflux velocity Fortified				m.sec ⁻¹			
(ii) Other factors		est of con-							
Temperature	°C(max)	°C(min)				°C(avg)			
For Combustion Sources: Volume terms expressed		□ dry	%O ₂						
(iii) Period or periods /shutdown to be		nissions are made, or ar	e to be made, includ	ding daily or seasc	onal variations (start-up			
Periods of Emission (avg)				min/hr	hr/day _	day/yr			

Attachment 7 Worst Case Odour Contours



2008			
Parameter	Inlet (ppm)	Outlet	% Removal
Hydrogen Sulphide	6.2	0.37	94
Ammonia	116	Not Detected	>99
Mercaptans	1	Not Detected	>99
2010			
Parameter	Inlet (ppm)	Outlet	% Removal
Hydrogen Sulphide	0.31	0.039	87.4%
Ammonia	60	8	86.67
Mercaptans	0.6	Not Detected	>99

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TABLE H.3(i): Generation of waste at the installation and its management

Waste	EWC Code (use	Category per	Source of waste	Quantity	Location of	Method of recovery or
Description	asterisk to	Animal By-		generated	recovery of	disposal (e.g.
	indicate whether	products		(tonnes per	disposal (on-site,	recycling, energy
	hazardous waste	Regulation		month)	off-site,	recovery, other
	or not)	1069/2009			exported)	incineration, landfill)
Treated Sludges	19 08 12		Sludge drying		Exported	Energy recovery
Digestate	19 06 04		Anaerobic digestion		Off-site	Land application
Fibre	19 06 99		Dewatering of digestate		Off-site	Land application
Fibre	19 06 99		Dewatering of digestate		Off-site	Composting
Liquor	19 06 99		Dewatering of digestate		Off-site	Waste water
				use.	treatment in Irish	treatment
			ille ²	•	Water WWTP	
Materials	20 03 99		Incoming brown bin and waste		Off-site,	Landfill
unsuitable for			waste			
processing						
Boiler Dust	10 01 01		On-site Boiler		Off-site	Landfill

Treatment	D/R Class	Capacity	Maximum	LoW	Outputs	Waste Classification/LoW	Destination
Process			Throughput				
Anaerobic	R3	$2,208 \text{ m}^3$	40,000 tonnes/	19 08-05	Digestate	19 06 99	Landspread / Treated in
Digestion			year	19 08-12			on-site WWTP
					Fibre	19 06 99	On-Site Sludge Dryer
					Biogas	No LoW for Biogas	Combusted on-site CHP
Sludge Drying	R12		1000 tonnes/	19 08 05	Dried Sludge	19 08 05	Used as a fuel in energy
			year				recovery plants in Germany
Sludge	R12				19 02 06		Commany
Treatment					2.		
(Lime					5 1150		
Stabilisation)					Other use.		
Landfill	No Recovery		5000	19 07 03	On-Site	19 08 99	Discharge to Irish Water
Leachate	/Disposal Class		tonnes/year	్లల్	WWTP		Sewer
Treatment	for Leachate			ntpolit	Ěffluent		
	Treatment			19 06 099			
Digestate	No Recovery		32,000	19 06 099	Centrifuge	19 08 99	Discharge to Irish Water
Treatment	/Disposal Class		tonnes/year	rinsphil	Liquor		Sewer
	for Digestate		~	Of the			
	Treatment		ó	00 1			
Waste Wood	R12		19 12 07 Consent of		Shredded	19 12 07	Use in on-site boiler
Shredding			Cour		Wood		
Waste Wood	R1		19 1-07		Boiler Dust	10 01 01	Landfill
Combustion							
Municipal	R1/R4/R5/D5		20,000	20 03 01	Recyclables/	19 12 01, 19 12 02, 19 12 03, 19	Off-site Licensed Waste
Waste					Recoverables	12 04, 19 12 05, 19 12 07 19 12	Management Facilities
Processing					and Non-	08, 19 12 09, 19 12 10, 19 12 12	
-					Recyclables		
Waste Storage	R13/D13/D15				Recyclables/	19 12 01, 19 12 02, 19 12 03, 19	Waste to
-					Recoverables	12 04, 19 12 05, 19 12 07 19 12	Energy/Landfill
					and Non-	08, 19 12 09, 19 12 10, 19 12 12	
					Recyclables		

As the drying of the whey permeate and yeast will be not be a waste activity, it is not listed in the Table