WCS Environmental Engineering
MARLOWE Environmental Services

DIAMOND LOGBOOK

Service and maintenance log book (English Language)

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SERVICING AND MAINTENENCE

SERVICING AND MAINTENANCE

The owner is responsible for the Diamond plant (formerly WPL Diamond), ensuring that the effluent quality does not breach applicable discharge consent standards. Please visit your local Environment Agency website for guidance. The plant requires routine, periodic inspection and maintenance to ensure continuous, trouble-free operation. WCSEE recommends service and maintenance to be undertaken by a British Water Accredited service engineer. All service and maintenance for the plant must be recorded in this logbook which should be retained by the owner for the lifetime of the plant.

The logbook can be downloaded from wpldiamond website / support / useful documents.

The Diamond is CE marked, fully type tested and certificated in accordance with the mandatory European standard BS EN12566-3, and meets all current legislation under the Environmental Permitting Programme.

WARRANTY AND RECORD

Please keep a record of your servicing and maintenance in line with the warranty. The Diamond comes with 25 years tank warranty and a process performance guarantee for the life of the tank.

The warranty of the air blower (housed in the kiosk) is 2 years. Warranty is subject to the correct installation, consistent influent conditions and regular plant maintenance as per the manufacturers' instructions.

Tank inspection

At a minimum, the tank should be inspected every six months. More frequent inspections may be required if mandated by local or national regulatory authorities, or if the tank is used in a non-residential application.

Blower inspection

Please refer to the specific instruction manual supplied with the air blower. Warranty is subject to the manufacturer's instructions.

De-sludging

This should be carried out by professionals holding the relevant permits to transport and dispose of sewage sludge. They will also be able to advise the correct de-sludge frequency by analysing the percentage of settled sludge (i.e. sludge volume) to the clear liquor.

FOR MORE INFORMATION ON THE SERVICE AND MAINTENANCE, PLEASE REFER TO THE DIAMOND MANUAL.

AUTHORISED SERVICE KITS AND SPARE PARTS ARE SUPPLIED BY WPL OR CONTACT YOUR LOCAL PROVIDER.

ADDITIONAL PAGES FOR PLANT INSPECTION, DESLUDGE OR AUTHORISED PARTS FITTING RECORDS CAN BE DOWNLOAD AT:

wcs-group.co.uk/accreditations-repository

DIAMOND PLANT INDENTIFICATION

Address (where the plant is located)

Diamond serial number .....
(located under the tank lid)

Model	DMS2	DMS 3	DMS 4	DMS 5	DMS 6	DMS 7	DMS 8	DMS 9
	1-6	5-11	10-15	14-20	21-27	28-35	36-45	46-55
Standard								
With EPC*								

*External pumping chamber

Purchase Date .....

Installation Date .....

Commisioning Date .....

(Operation start-up date)

COMPANY INSTALLING / COMISSIONING THE PLANT

Company stamp and signature

PLANT INSPECTION RECORD

The plant inspection list is a guide designed to ensure the treatment system is properly maintained throughout its life. Please tick each box once the item has been completed. Comments on unusual condition and subsequent remedial action taken must be added.

6 MONTHS PLANT INSPECTION

Date checked .....

AIR BLOWER & KIOSK			
1. Air Blower noise (lid on/off)		14. Air distribution pipework	
2. Air blower temp (37-40oC max)		15. Air diffuser condition	
3. Check oil level (DMC blowers only)		16. Settlement test below 70% sludge (Mixed Liquors Suspended Solids)	
4. Air filter condition/cleanliness		**CLARIFYING CHAMBER**	
5. Kiosk secure/dry/clean		17. Move scum to aeration chamber	
6. Kiosk venting		**EXTERNAL PUMP CHAMBER (if fitted)**	
7. Hose connection/condition		18. Clean pump chamber	
8. Electrical connections		19. Check operation of pump	
AERATION CHAMBER		20. Check non-return valve works	
9. Plant lid secure		21. Check high level float & beacon	
10. Odour		**OUTLET**	
11. Aeration turbulence		22. Outlet 'T' correctly orientated & obstruction free	
12. Liquor colour (brown)		**SAMPLE CHAMBER (if fitted)**	
13. Remove rags/fat		23. Sample colour/clarity	

Please document any unusual conditions observed and any remedial actions taken

Service company contract number .....

Company stamp and signature

12 MONTHS PLANT INSPECTION

Date checked .....

AIR BLOWER & KIOSK			
1. Air Blower noise (lid on/off)		14. Air distribution pipework	
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3. Check oil level (DMC blowers only)		16. Settlement test below 70% sludge (Mixed Liquors Suspended Solids)	
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Service company contract number .....

Company stamp and signature

18 MONTHS PLANT INSPECTION

Date checked .....

AIR BLOWER & KIOSK		14. Remove rags/fat	
1. Air Blower noise (lid on/off)		15. Air distribution pipework	
2. Air blower temp (37-40oC max)		16. Air diffuser condition	
3. Check oil level (DMC blowers only)		17. Settlement test below 70% sludge (Mixed Liquors Suspended Solids)	
4. Renew blower diaphragms		**CLARIFYING CHAMBER**	
5. Air filter condition/cleanliness		18. Move scum to aeration chamber	
6. Kiosk secure/dry/clean		**EXTERNAL PUMP CHAMBER (if fitted)**	
7. Kiosk venting		19. Clean pump chamber	
8. Hose connection/condition		20. Check operation of pump	
9. Electrical connections		21. Check non-return valve works	
AERATION CHAMBER		22. Check high level float & beacon	
10. Plant lid secure		**OUTLET**	
11. Odour		23. Outlet 'T' correctly orientated & obstruction free	
12. Aeration turbulence		**SAMPLE CHAMBER (if fitted)**	
13. Liquor colour (brown)		24. Sample colour/clarity	

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Company stamp and signature

24 MONTHS PLANT INSPECTION

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AIR BLOWER & KIOSK			
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3. Check oil level (DMC blowers only)		16. Settlement test below 70% sludge (Mixed Liquors Suspended Solids)	
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Company stamp and signature

30 MONTHS PLANT INSPECTION

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AIR BLOWER & KIOSK			
1. Air Blower noise (lid on/off)		14. Air distribution pipework	
2. Air blower temp (37-40oC max)		15. Air diffuser condition	
3. Check oil level (DMC blowers only)		16. Settlement test below 70% sludge (Mixed Liquors Suspended Solids)	
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Service company contract number .....

Company stamp and signature

36 MONTHS PLANT INSPECTION

Date checked .....

AIR BLOWER & KIOSK		14. Remove rags/fat	
1. Air Blower noise (lid on/off)		15. Air distribution pipework	
2. Air blower temp (37-40oC max)		16. Air diffuser condition	
3. Check oil level (DMC blowers only)		17. Settlement test below 70% sludge (Mixed Liquors Suspended Solids)	
4. Renew blower diaphragms		**CLARIFYING CHAMBER**	
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6. Kiosk secure/dry/clean		**EXTERNAL PUMP CHAMBER (if fitted)**	
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8. Hose connection/condition		20. Check operation of pump	
9. Electrical connections		21. Check non-return valve works	
AERATION CHAMBER		22. Check high level float & beacon	
10. Plant lid secure		**OUTLET**	
11. Odour		23. Outlet 'T' correctly orientated & obstruction free	
12. Aeration turbulence		**SAMPLE CHAMBER (if fitted)**	
13. Liquor colour (brown)		24. Sample colour/clarity	

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Company stamp and signature

42 MONTHS PLANT INSPECTION

Date checked .....

AIR BLOWER & KIOSK			
1. Air Blower noise (lid on/off)		14. Air distribution pipework	
2. Air blower temp (37-40oC max)		15. Air diffuser condition	
3. Check oil level (DMC blowers only)		16. Settlement test below 70% sludge (Mixed Liquors Suspended Solids)	
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10. Odour		**OUTLET**	
11. Aeration turbulence		22. Outlet 'T' correctly orientated & obstruction free	
12. Liquor colour (brown)		**SAMPLE CHAMBER (if fitted)**	
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Service company contract number .....

Company stamp and signature

48 MONTHS PLANT INSPECTION

Date checked .....

AIR BLOWER & KIOSK			
1. Air Blower noise (lid on/off)		14. Air distribution pipework	
2. Air blower temp (37-40oC max)		15. Air diffuser condition	
3. Check oil level (DMC blowers only)		16. Settlement test below 70% sludge (Mixed Liquors Suspended Solids)	
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Service company contract number .....

Company stamp and signature

54 MONTHS PLANT INSPECTION

Date checked .....

AIR BLOWER & KIOSK		14. Remove rags/fat	
1. Air Blower noise (lid on/off)		15. Air distribution pipework	
2. Air blower temp (37-40oC max)		16. Air diffuser condition	
3. Check oil level (DMC blowers only)		17. Settlement test below 70% sludge (Mixed Liquors Suspended Solids)	
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AERATION CHAMBER		22. Check high level float & beacon	
10. Plant lid secure		**OUTLET**	
11. Odour		23. Outlet 'T' correctly orientated & obstruction free	
12. Aeration turbulence		**SAMPLE CHAMBER (if fitted)**	
13. Liquor colour (brown)		24. Sample colour/clarity	

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Company stamp and signature

60 MONTHS PLANT INSPECTION

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AIR BLOWER & KIOSK			
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2. Air blower temp (37-40oC max)		15. Air diffuser condition	
3. Check oil level (DMC blowers only)		16. Settlement test below 70% sludge (Mixed Liquors Suspended Solids)	
4. Air filter condition/cleanliness		**CLARIFYING CHAMBER**	
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12. Liquor colour (brown)		**SAMPLE CHAMBER (if fitted)**	
13. Remove rags/fat		23. Sample colour/clarity	

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Service company contract number .....

Company stamp and signature

DESLUDGE RECORD

DESLUDGE RECORD

Date of desludge .....

Comments on unusual condition and subsequent remedial action taken:

Service company contract number .....

Company stamp and signature

DESLUDGE RECORD

Date of desludge .....

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Date of desludge .....

Comments on unusual condition and subsequent remedial action taken:

Service company contract number .....

Company stamp and signature

AUTHORISED PARTS FITTING RECORD

PARTS RECORD

Part description .....

Part number .....
Date fitted .....

Service company contract number .....

Company stamp and signature

PARTS RECORD

Part description .....

Part number .....

Date fitted .....

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OUR ROOTS

WPL (which is now a part of WCS Environmental Engineering) has been at the forefront of wastewater treatment technology for over 30 years, with international experience of technical design, quality of manufacture and supply of environmental wastewater solutions. Our high level of expertise means that we offer all of our customers, from the individual homeowner to large municipal communities and industrial markets, robust wastewater treatment process solutions that are environmentally compliant.

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Disclaimer
WCS Environmental Engineering has a policy of continual product development and the above information may be subject to change without notice. Errors and omissions excepted. Technical drawings are indicative only. WCS Environmental Engineering Ltd is a portfolio company of Marlowe PLC.

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