Class IV Stage 2 Leachate Observations

Indendtifying code	C4LC3	C4LD3	C4LC4	C4LD4		
Source	Leachate Collection Sump	Leak Detection Sump	Leachate Collection Sump	Leak Detection Sump		
Prior to 2102	Class IV Stage 2 (west) Class IV Stage 2 (west) Class IV Stage 2 (east) Class IV Stage 2 (eas					
Between 2012 - December 2018	No liquid was removed from the Class IV Stage 2 cell and additional liquid mainly from the greenwaste operations was directed into the cell, increasing the volume of leachate.					
December 2018-June 2019	Relocation of leachate to new storage and eva	poration ponds commenced and approx 70,00	0m3 of liquid was relocated before winter set	in.		
14/5/2019		Samples of liquid extracted from leak detection sump taken for lab testing				
July 2019 - July 2020	Liquid continued to be relocated from Class IV cell to storage ponds at a frequency in which the new leachate system could manage through natural and assisted evaporation.					
22/05/2020 Liner Integrity Report # 1 provided to DWER for review						
In July 2020 the DWER requested more monito	ring and reporting of the liquid removed from t	he Class IV Leachate Leak Detection System. Th	e pneumatic pumps were turned on in both le	ak detection sumps on 10 July 2020		
Between 10 July and 23 July 2020 Between 23 July and 11 August 2020		110,539L extracted 255,530L extracted	Mechanical pump still removing leachate to the storage/evaporation ponds			
Between 11 August and 20 August 2020		57,321L extracted				
20/8/2020		Probe on pump not working and switched to timer operation				
21/08/2020		No water discharged over a 2 hr period. Sump determined to be dry and pump turned off at 3pm to determine if any recharge occurs				
24/08/2020		Pump turned back on and 120L removed before drying up again. Pump turned off		Pnuematic pump turned on. No liquid removed. Leak detection deemed to be dry		
28/08/2020		Pump turned back on and 83L removed before drying up again. Pump turned off.		No liquid is being removed from leak detection system. Deemed to be dry.		
31/08/2020		Pump turned back on and 35L removed before drying up again. Pump turned off.		No liquid is being removed from leak detection system. Deemed to be dry.		
7/09/2020		Pump turned back on and 30L removed before drying up again. Pump turned off.		No liquid is being removed from leak detection system. Deemed to be dry.		
9/09/2020	7 x gas vents at the top of the batter were rem	noved and holes patched as part of the LIA wor	ks.			
		Pump turned back on and 12L removed		No liquid is being removed from leak		
14/09/2020		before drying up again. Pump turned off.		detection system. Deemed to be dry.		
21/09/2020		Pump turned back on and 12L removed before drying up again. Pump turned off.		No liquid is being removed from leak detection system. Deemed to be dry.		
28/09/2020		Pump turned back on and 12L removed before drying up again. Pump turned off.		No liquid is being removed from leak detection system. Deemed to be dry.		
OBSERVATION		The small amount of liquid being extracted after recharging for 1 week possibly indicates that there is a breach between the collection and detection sumps. The leak detection pump will be left on to ensure leak detection system remains dry.		No liquid is being removed from leak detection system. Deemed to be dry.		
5/10/2020		Pump remains on and no liquid is being removed from leak detection system.		No liquid is being removed from leak detection system. Deemed to be dry.		
12/10/2020		No liquid is being removed from leak detection system. Deemed to be dry.		No liquid is being removed from leak detection system. Deemed to be dry.		
15/10/2020	Pnuematic pump turned back on with liquid being removed and sent to storage/evaporation ponds. The volume of liquid is not being monitored.	No liquid is being removed from leak detection system. Deemed to be dry.		No liquid is being removed from leak detection system. Deemed to be dry.		
23/10/2020	Small amount of liquid remains on surface being extracted as it drains through into the collection sump.	No liquid is being removed from leak detection system. Deemed to be dry.	Pnuematic pump turned back on with liquid being removed and sent to storage/evaporation ponds. The volume of liquid is not being monitored.	No liquid is being removed from leak detection system. Deemed to be dry.		
26/10/2020	Small amount of liquid remains on surface being extracted as it drains through into the collection sump.	No liquid is being removed from leak detection system. Deemed to be dry.	Pnuematic pump turned back on with liquid being removed and sent to storage/evaporation ponds. The volume of liquid is not being monitored.	No liquid is being removed from leak detection system. Deemed to be dry.		
6/11/2020	Small amount of liquid remains on surface being extracted as it drains through into the collection sump.	No liquid is being removed from leak detection system. Deemed to be dry.	Pnuematic pump turned back on with liquid being removed and sent to storage/evaporation ponds. The volume of liquid is not being monitored.	No liquid is being removed from leak detection system. Deemed to be dry.		
13/11/2020	Small amount of liquid remains on surface being extracted as it drains through into the collection sump.	No liquid is being removed from leak detection system. Deemed to be dry.	Pnuematic pump turned back on with liquid being removed and sent to storage/evaporation ponds. The volume of liquid is not being monitored.	No liquid is being removed from leak detection system. Deemed to be dry.		
20/11/2020	Small amount of liquid remains on surface being extracted as it drains through into the collection sump.	No liquid is being removed from leak detection system. Deemed to be dry.	Pnuematic pump turned back on with liquid being removed and sent to storage/evaporation ponds. The volume of liquid is not being monitored.	No liquid is being removed from leak detection system. Deemed to be dry.		

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27/11/2020	Small amount of liquid remains on surface being extracted as it drains through into the collection sump.	No liquid is being removed from leak detection system. Deemed to be dry.	Pnuematic pump turned back on with liquid being removed and sent to storage/evaporation ponds. The volume of liquid is not being monitored.	No liquid is being removed from leak detection system. Deemed to be dry.
11/12/2020	Small amount of liquid remains on surface being extracted as it drains through into the collection sump.	No liquid is being removed from leak detection system. Deemed to be dry.	Pnuematic pump turned back on with liquid being removed and sent to storage/evaporation ponds. The volume of liquid is not being monitored.	No liquid is being removed from leak detection system. Deemed to be dry.
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8/01/2021	Small amount of liquid remains on surface being extracted as it drains through into the collection sump.	No liquid is being removed from leak detection system. Deemed to be dry.	Pnuematic pump turned back on with liquid being removed and sent to storage/evaporation ponds. The volume of liquid is not being monitored.	No liquid is being removed from leak detection system. Deemed to be dry.
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19/05/2021	Small amount of liquid remains on surface being extracted as it drains through into the collection sump.	No liquid is being removed from leak detection system. Deemed to be dry.	Pnuematic pump turned back on with liquid being removed and sent to storage/evaporation ponds. The volume of liquid is not being monitored.	No liquid is being removed from leak detection system. Deemed to be dry.
10/06/2021	Small amount of liquid remains on surface being extracted as it drains through into the collection sump.	Leak Detection sump pneumatic pumps are running with only air being exhumed. No Liquid would indicate Leak Detection sump is dry.	Pnuematic pump turned back on with liquid being removed and sent to storage/evaporation ponds. The volume of liquid is not being monitored. Large mechanical pump has been in operation when required to keep the amount of liquid on the surface to a minimum.	Leak Detection sump pneumatic pumps are running with only air being exhumed. No Liquid would indicate Leak Detection sump is dry.
1/07/2021	Small amount of liquid remains on surface being extracted as it drains through into the collection sump.	Leak Detection sump pneumatic pumps are running with only air being exhumed. No Liquid would indicate Leak Detection sump is dry.	Pnuematic pump turned back on with liquid being removed and sent to storage/evaporation ponds. The volume of liquid is not being monitored. Large mechanical pump has been in operation to remove surface water to leachate pond.	Leak Detection sump pneumatic pumps are running with only air being exhumed. No Liquid would indicate Leak Detection sump is dry.
3/08/2021	Small amount of liquid remains on surface being extracted as it drains through into the collection sump.	Leak Detection sump pneumatic pumps are running with only air being exhumed. No Liquid would indicate Leak Detection sump is dry.	Pnuematic pump turned back on with liquid being removed and sent to storage/evaporation ponds. The volume of liquid is not being monitored. Large mechanical pump has been in operation when required to keep the amount of liquid on the surface to a minimum.	Leak Detection sump pneumatic pumps are running with only air being exhumed. No Liquid would indicate Leak Detection sump is dry.
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17/12/2021		Leak Detection sump pneumatic pumps are running with only air being exhumed. No Liquid would indicate Leak Detection sump is dry.	Pnuematic pump turned back on with liquid being removed and sent to storage/evaporation ponds. The volume of liquid is not being monitored. Large mechanical pump has been in operation when required to keep the amount of liquid on the surface to a minimum.	Leak Detection sump pneumatic pumps are running with only air being exhumed. No Liquid would indicate Leak Detection sump is dry.
19/01/2022	Minimal surface leachate as this has been	No liquid is being removed. Sump is dry Pneumatic pump is on 24/7. Sump is dry. No	Minimal surface leachate as this has been	No liquid is being removed. Sump is dry Pneumatic pump is on 24/7. Sump is dry. No
18/02/2022	removed to allow lining repairs.	liquid being removed Pneumatic pump is on 24/7. Sump is dry. No	removed to allow lining repairs.	liquid being removed Pneumatic pump is on 24/7. Sump is dry. No
16/03/2022		liquid being removed Pneumatic pump is on 24/7. Sump is dry. No		liquid being removed Pneumatic pump is on 24/7. Sump is dry. No
15/04/2022 Repairs have been made to the	e HDPE Liner on the west and east side of the la	liquid being removed and fill. Geotextile replacepment is programme	l d to be carried out ASAP after winter and be co	liquid being removed omplete by end October 2022
12/05/2022	Rain Water on surface, pneumatic pump is removing water from collection sump and	Pneumatic pump is on 24/7. Sump is dry. No liquid being removed	Rain Water on surface, pneumatic pump is removing water from collection sump and	Pneumatic pump is on 24/7. Sump is dry. No liquid being removed
15/06/2022	discharging in Leachate Pond Rain Water on surface, pneumatic pump is removing water from collection sump and discharging in Leachate Pond	Pneumatic pump is on 24/7. Sump is dry. No liquid being removed	discharging in Leachate Pond Rain Water on surface, pneumatic pump is removing water from collection sump and discharging in Leachate Pond	Pneumatic pump is on 24/7. Sump is dry. No liquid being removed
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19/08/2022	Rain Water on surface, pneumatic pump is removing water from collection sump and discharging in Leachate Pond	Prince Pr	fremoving water from collection sump and	Pneumatic pump is on 24/7. Sump is dry. No liquid being removed
14/09/2022	Rain Water on surface, pneumatic pump is removing water from collection sump and discharging in Leachate Pond	liquid being removed	fremoving water from collection sump and	Pneumatic pump is on 24/7. Sump is dry. No liquid being removed
26/10/2022	Rain Water on surface, pneumatic pump is removing water from collection sump and discharging in Leachate Pond	Prince Pr	fremoving water from collection sump and	Pneumatic pump is on 24/7. Sump is dry. No liquid being removed