

AHEP Environmental Emissions Incident Register

In accordance with our Marine License, all emissions of substances deemed potentially hazardous are reported to our regulators and responded to in accordance with our approved Pollution Prevention Plan. This is all been done to the satisfaction of our regulators to date. Significant mitigation is in place to avoid the emission of any hazardous substance, and the project operates in full compliance with COSHH and all other relevant legislation. Despite these significant efforts, emissions have occurred.

- In total there have been 7 marine emissions and 104 land emissions
- 23% of all emissions have been of a quantity of less than 1 litre
- 47% of all emissions have been of a quantity greater than 1 litre but less than 5 litres
- 21% of all emissions have been of a quantity greater than 5 litres but less than 20 litres
- 6% of all emissions have been of a quantity greater than 20 litres but less than 50 litres
- 3% of all emissions have been of a quantity greater than 200 litres, but less than 500 litres
- 1% of all emissions have been of a quantity greater than 500 Litres

The following is a register of all Hazardous Substance emissions to the environment associated with the AHEP Project:

HAZARDOUS SUBSTANCES EMISSIONS REGISTER				
ITEM	TOPIC	INCIDENT	VOLUME (IF APPLICABLE)	DATE
1	Emission	Main Fuel House detached from coupling spilling about 5 litres of diesel fuel.	<5	17/10/2017
2	Emission	Standard HSE inspection identified oily sheen on ground outside gatehouse hut.	N/A	19/11/2017
3	Emission	Slewing Hydraulics failed and leaked oil.	N/A	20/11/2017
4	Emission	IBC containing Add Blue dislodged from pallet causing emission.	<20	13/11/2017
5	Emission	Two discharges of diesel located near the main refuelling point of project.	<5	23/11/2017
6	Emission	Lighting Tower dislodged generating emission of diesel.	<5	21/12/2017
7	Emission	Hydraulic Oil hose punctured on SI Drill Rig.	<5	19/01/2018
8	Emission	After concreting activities in South Compound a volume of concrete was accidentally released adjacent to pond 2 (NJ 96998 03993).	N/A	30/01/2018
9	Emission	Small diesel spill was found on site in the staff car park at the central compound beside site walkway.	<5	01/02/2018
10	Emission	During daily site walkover done by the ECoW, a volume of diesel was found on the soil, (NJ 96889 04084).	<50	06/02/2018
11	Emission	Excess concrete applied to washout pit area. Over spilled into environment (NJ 96889 04084).	N/A	06/02/2018

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12	Emission	It was noted that a hydraulic oil absorbant cloth remained exposed to the elements under snow weather conditions and soil contamination occurred.	<5	05/03/2018
13	Emission	Diesel spill reported to ECoW. After investigation a small to medium sized diesel spill was located at the central compound near the beach front NJ 96550 04873.	<20	07/03/2018
14	Emission	Hydraulic hose leaked hydraulic oil during concrete operations for the girdleness slab.	<5	21/03/2018
15	Emission	Hydraulic oil emission when drum dislodged within subcontractor company container, located in the North Compound.	<5	22/03/2018
16	Emission	Hydraulic oil leak from a low loader parked on the beach front. Dragados's Environmental Team instigated an operation to clean it up on Tuesday the 27th March. The leak had not been repaired on Wednesday the 29th March as on Wednesday morning there was a further substantial spill across the beach front area.	<50	27/03/2018
17	Emission	Oily substance spilled on compact gravel.	<5	23/03/2018
18	Emission	Oily substance spilled at back of offices.	<5	23/03/2018
19	Emission	Ashleigh's low loader has a small oil leak.	<1	28/03/2018
20	Emission	Oily substance spilled.	<1	29/03/2018
21	Emission	Leak was observed as the cherry picker was moving. Operation stopped to check where the leak was coming from.	<1	29/03/2018
22	Emission	Emission of coagulant to ground.	<50	09/04/2018
23	Emission	Hydraulic hose leak on excavator on north quay piling platform.	<1	09/04/2018
24	Emissions	The 6th of May around 11:10 am dredging sub-contractor (Van Oord) informed Dragados UK AHEP about an oil spill from one of the hydraulic hoses of BHD Goliath in the Nigg Bay. VTS was informed over the radio around 11:20 am, the spill was contained and cleaned. The source of the leak was an O-ring of one of the connections between the boom and the stick, the amount of spill into the water was approximately 10 litres of Thellus T68 (biodegradable Hydraulic oil spray). In order to prevent further spillage, the boom retrieved immediately onto the deck to minimize the spill into the water and control on the deck, absorbent booms were deployed into the water to contain the spill.	<20	06/05/2018
25	Spill	Hydraulic oil on loading shovel on Ashleigh's plants.	1	18/05/2018
26	Spill	Plant nappies are not being implemented on site and an oil spill has been detected.	<5	15/06/2018
27	Marine Spill	Hydrocarbons were noted in the marine environment around Pontoon 2, North Break Water.	N/A	31/05/2018
28	Emissions	It was noted that a hydraulic oil spill had occurred on the subcontractor site located in the North Compound. The affected area was cleaned up as soon as the incident happened.	<5	15/06/2018

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29	Emissions	Accropode placement plant small oil emission due to lack of plant nappies.	<20	10/07/2018
30	Emissions	Hydraulic hose leaked on HIAB due to equipment failure. Approximately two litres of material spilled.	<5	10/07/2018
31	Emissions	On the 12th of July 2018, diesel spill located in the North Breakwater behind Ashleigh office. The valve at the bottom of the bonded tank had a small leak and the valve have not been turned off properly resulting in the diesel leaking onto wooden sheeting and then the ground.	<5	12/07/2018
32	Marine Spill	During site visit by DUK ECoW, Joanna Thow, on the 17th of July 2018, marine hydrocarbons were observed around Ashleigh's pontoon which is moored adjacent to the North Breakwater. Environmental manager Edward Douglas boarded the safety boat for further investigation and could not find the root cause of spill. Spill appeared to be carried in from tide and not from any activity related to AHEP.	N/A	17/07/2018
33	Marine Spill	The 22nd of July around evening/night time, dredging subcontractor (Van Oord) had an oil spill approximately 1-2 litres from pilot line in the Nigg Bay. It was cleaned up straight away once detected.	<5	23/07/2018
34	Emissions	Hydraulic hose burst on stone at North Breakwater access road.	<5	24/07/2018
35	Emissions	Hydraulic oil spill on NBW. Hitachi EX1200 quick hitch pipe failed. Operator made radio contact immediately and the AC General Foreman actioned all staff to get the spill kit. The excavator was shut down as soon as failure happened. The clean-up response was instant.	<20	01/08/2018
36	Emissions	Hydraulic oil spill. The hose was changed before it burst and when it was changed, 2 spill trays were put under the hose so there was not any spill on the platform. Environmental technicians came down and emptied excess oil into oil drum at central compound. Contaminated pads were disposed of in blue hazardous waste bags and disposed in the oily waste safe at central compound.	<5	01/08/2018
37	Emissions	Hydraulic Oil spill in Nigg Bay from the Van Oord Dredger Goliath on the 3rd of August 2018 approximately 1.15am. There was approximately 1 ton of oil (Shell Tellus T68) lost into the marine environment due to a hydraulic block failing. The dredger was working in the NE Quay close to shore and the incident occurred during the incoming tide. Briggs Marine were called out to deal with the spill immediately and mobilised oil booms and a skimmer to recover the oil. DUK Environmental Manager notified the incident via email to SEPA, MS-LOT and MCA.	1,000	03/08/2018
38	Emissions	Oil spill on the 8th of August in the West Quay. It was reported to DUK Environmental Team on the 9th of August through corresponding Spill Recording Form. Based on the information provided, the quantity of material spill was less than a litre and the clean-up method used were trays, spill kit and Sepiolite (absorbent powder).	0.5	09/08/2018

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39	Spill	Carrying out service, hydraulic filter separated leaving cut off valve open emitting hydraulic oil to ground. Spill kit used immediately to control spill.	<20	15/08/2018
40	Emissions	Plant leaking oil with absence of plant nappies.	<20	21/08/2018
41	Emissions	Oil spill due to damage repair (change of hose and change pulleys). Machine BG-36 approximately at 6th pile place.	<20	23/08/2018
42	Emissions	Hydraulic oil spill (approximately 5 litres) when changing hydraulic hammer due to equipment failure. North Breakwater –CH 600.	5	29/08/2018
43	Emissions	Hydraulic oil spill (approximately 2 litres) when changing digging bucket to hydraulic hammer due to equipment failure. North Breakwater CH-450.	<5	29/08/2018
44	Emissions	Oil spill during machine maintenance activity.	<5	30/08/2018
45	Marine Spill	Hydrocarbons were noted in the marine environment. ECoW led the investigation in collaboration with the environmental technicians and it was not possible to determinate the source of the potential spill. In addition the pontoon located in the North Breakwater was inspected to verify if was possible to determinate the source, however it was not successful.	N/A	03/09/2018
46	Emission	Hydraulic oil spill, approximately 5 litres, due an equipment failure on change of pecker.	<5	03/09/2018
47	Emission	On the 9th of September around 19:10pm, Goliath has had an hydraulic oil spill. It was estimated that 40 litres of oil were spilled. Once it was detected, oil spill boom deployed, VTS informed by radio and Briggs Marine contacted to assist with oil spill clean-up. Corresponding incident report sent to DUK by Van Oord the 12th of September.	<50	12/09/2018
48	Emission	Upon ECoW daily check we detected that chemical run off and contaminated the ground.	<5	13/09/2018
49	Emission	Oil spill on the North Breakwater area.	<5	21/09/2018
50	Emission	The environmental team was informed about an oil spill on the North Breakwater area.	<20	03/10/2018
51	Emission	Hydraulic oil spill on the West Quay.	<20	18/10/2018
52	Emission	In the North Breakwater access, a vehicle's own mud guard hit fuel tank when lowering tipper causing the tank to split slightly.	<20	25/10/2018
53	Emission	Oil spill on the North Breakwater due split hose drive unit cherry picker.	<20	02/11/2018
54	Emission	Hydraulic oil spill on North Breakwater (around CH220). The cherry picker was used to inspect the rock armour slope at NBW. After finishing, it started to lose hydraulic oil on its way back to the park area close to the NBW office. As soon as the leak was advised, the cherry picker was turned off and the leak stopped. Then an excavator was used to pull the cherry picker to the park area in order to minimize the loss.	<20	05/11/2018
55	Emission	On the 26th of December an incident occurred where a vandal broke into the North Breakwater Compound. Considerable damage has been done including damage to fences, plant left in the compound and several attempted fires. A hired crane was considerably damaged where the cabin had been set on fire. Due to the fire and damage, several hydraulic hoses burst and leaked engine coolant in the vicinity of the crane.	<50	07/01/2019

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56	Emission	On the 16th of January, whilst conducting a site inspection in the southern compound, an oil spill was detected at the South Breakwater access road. After an investigation the source was identified to be from the road sweeper pit used for road brush cleaner sweepings.	<5	16/01/2019
57	Emission	A hydraulic hose that had been newly replaced split resulting in an oil spill.	<5	23/03/2019
58	Emission	AHB noted a spill of concrete curing agent has occurred at the South breakwater.	1	03/04/2019
59	Emission	ARUP reported a spill of hydraulic fluid due to a faulty plant hose at the West Quay piling platform.	<5	27/04/2019
60	Emission	At roughly 17:15 a hydraulic oil spill at the North Quay was reported to the ECoW.	<5	16/05/2019
61	Emission	At the start of the shift this morning an operative with the subcontractor Ashleigh was rewinding a diesel pump hose up and accidentally hit the trigger and the remains of the hose ran out. The pump was not on and the manual stop valve was shut. There was approximately 5-10 litres of diesel spilled. The spill was immediately reported and cleaned up by operatives with absorbant pads.	<20	20/05/2019
62	Emission	A faulty hydraulic hose lead to a spill taking place at the West Quay piling platform.	<20	28/05/2019
63	Emission	While walking through the car park at the central compound the environmental administrator noticed a small fuel spill. Rain had been falling for most of the morning and so some of the fuel had been washed into the car park drainage. The source of the spill is unknown though it is estimated that roughly 2 litres of fuel was originally leaked from a vehicle that was nearby at the time.	<5	06/06/2019
64	Emission	A minor spill occurred at the north compound due to a faulty hose on a wheeled excavator.	<5	12/06/2019
65	Emission	A plant hose failed and approximately half a litre of hydraulic fluid went to ground.	<5	14/06/2019
66	Emission	A 120t machine at the end of the breakwater had a small leak showing on the stones below it.	<5	14/06/2019
67	Marine Spill	Colcrete-von essen reported a spill of hydraulic fluid to the marine environment, this was caused by a leak on the cat excavator.	<20	03/07/2019
68	Stockpile Management	It was reported by AHB that contaminated material placed on the upper slope of the beach within the B1 Revetment Area and adjacent to the UFI outfall was being washed into the marine environment during high tides.	N/A	18/07/2019
69	Marine Spill	At 13:30 a spill of approximately 35 litres of hydraulic fluid (Shell Tellus T68) occurred at the Van Oord vessel Goliath. This was caused by a fault with the hydraulic coupling of the rear spud winch. Report issued to Marine Scotland.	<50	20/07/2019
70	Emission	At roughly 09:00 it was reported that grab with a broken hose connection was leaking oil onto the temporary quay.	<5	22/07/2019
71	Emission	On 18/07/2019 roughly 0.5 litres of hydraulic fluid was spilled at the West Quay due to a split plant hose.	<5	22/07/2019
72	Emission	The ECoW noted a diesel spill in the CvE compound. CvE report that filling up a vehicle, an excessive amount of fuel was put in resulting in an overflow.	<20	26/07/2019

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73	Emission	The environmental technician reported a spill of roughly 1/8 litre of hydraulic oil at the North Quay. This was caused by a split hydraulic hose.	<1	01/08/2019
74	Marine Spill	At approximately 10:55 the Van Oord vessel Razende Bol spilled approximately 15 litres of hydraulic fluid to the marine environment. Caused by a split plant hose.	<20	04/08/2019
75	Emission	At approximately 18:15 approximately 4 litres of engine oil was spilled at the South Breakwater by a CvE van.	<5	02/08/2019
76	Emission	At approximately 09:20 1/2 a litre of hydraulic fluid was spilled at the West Quay due to a burst plant hose.	<1	06/08/2019
77	Emission	At approximately 11:30am the HS895 crane developed a leak on one of the hoses below the frame. 5 litres of oil was spilled and contained.	<5	06/08/2019
78	Emission	Damage to the sump of a Flannery van caused approximately 10 litres of oil to leak at the South Breakwater.	<20	10/08/2019
79	Emission	At approximately Midday on the 12/08/19 there was an incident regarding the Cat 385 triple boom. Once of the main hoses from the hydraulic tank to the pump split leaking to ground. During the removal of the rock armour the machine operator lost power to the machine, immediately switched the excavator off, did an inspection to find hydraulic oil coming out from the engine bay at an increased rate.	200-500	12/08/2019
80	Emission	Late during the shift a hydrocarbon sheen was observed in the marine environment.	<20	13/08/2019
81	Emission	An excavator drove over a stone on the North breakwater haul road causing it to be launched upwards and strike the underside, this caused damage to one of the fuel pipes and approximately 3 litres of diesel was spilled to ground.	<5	15/08/2019
82	Emission	Roughly 1/2 a litre of hydraulic oil was spilled at the West Quay due to a burst hydraulic hose on a piece of plant.	<1	19/08/2019
83	Emission	Roughly 1/2 a litre of hydraulic oil was spilled at the central compound behind the site offices. Hydraulic hose burst on an excavator while it was changing buckets.	<1	19/08/2019
84	Marine Spill	The breaker operator at the South breakwater noticed the machine was leaking hydraulic oil. Roughly 1litre went to ground.	<1	13/08/2019
85	Stockpile Management	The breaker operator at the South breakwater noticed the machine was leaking hydraulic oil. Roughly 0.5 litre went to ground.	<1	20/08/2019
86	Marine Spill	At 10:30 roughly 0.5 litre of hydraulic oil was spilled at the South compound. This was caused by a split hydraulic pipe on an piece of plant.	<1	21/08/2019
87	Emission	At 11:30 a van drove over a rock near the south compound which caused damage to the sump and resulted in a small leak of engine oil.	1	21/08/2019
88	Emission	At 14:20 a hydraulic hose burst on an excavator that was working at the North Quay.	<1	21/08/2019
89	Emission	At roughly 12:30 on the haul road by the central compound offices a hydraulic hose burst on a tractor while it was pulling a load spilling hydraulic fluid to ground.	<1	23/08/2019

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90	Emission	At roughly 15:20 a small amount of hydraulic oil was spilled at the South compound due to a burst pipe on a tractor.	<5	27/08/2019
91	Emission	At roughly 13:20 a small amount of hydraulic fluid was spilled at the South compound due to a hydraulic pipe bursting while a JCB was carrying out lifting operations.	<1	03/09/2019
92	Emission	The ECoW received a call at 15:21 reporting that there had been a major oil leak from the MSV at the South compound. The report from CVE stated around 300 litres had been spilled.	300	04/09/2019
93	Emission	While towing accropodes a hydraulic hose burst on a lorry causing a spill of roughly 4 litres of hydraulic fluid.	<5	10/09/2019
94	Emission	A Flannery machine had a leaking filter which resulted in a minor spill.	<5	16/09/2019
95	Emission	A small amount of diesel leaked from a piece of plant on St Fittick's Road.	<1	16/09/2019
96	Emission	A hose burst on a machine and it was cleaned up immediately.	<5	13/09/2019
97	Emission	At 11.40am on 17/9/19 the CAT 385 developed a leak at the dipper arm Ram. During the initial spotting and stopping of the machine approximately 5 litres of oil sprayed on the ground and the rocks.	<5	17/09/2019
98	Emission	During rockbreaking the operator of the machine noticed a leak. During replacement of the hydraulic hose some oil was spilled to ground.	<5	18/09/2019
99	Emission	A minor diesel spill occurred at the West Quay due to a burst plant pipe.	<1	20/09/2019
100	Emission	Burst hydraulic hose on a machine at the North breakwater resulted in a minor spill.	<5	20/09/2019
101	Emission	A minor diesel spill was noted behind the central compound offices, cause unknown.	<1	22/09/2019
102	Emission	The bucket on a 360 excavator broke resulting in a spill.	<5	22/09/2019
103	Emission	A hydraulic pipe burst on a lorry resulting in a spill of hydraulic fluid.	<5	23/09/2019
104	Emission	A hydraulic pipe burst on a 360 Miller machine causing a spill of hydraulic oil.	<5	23/09/2019
105	Emission	Burst hydraulic hose on a machine working at the North Quay, hydraulic oil was leaked into some water around a pile.	<5	14/10/2019
106	Emission	Hydraulic oil was spilled onto the deck of the CvE vessel Seebergen when a fault with a hose on the ripper resulted in a spill. No oil entered the marine environment.	200	20/10/2019
107	Emission	Minor oil spill near the cabins at the South Breakwater. Estimated there is maybe 0.5 litre of oil on the ground. No obvious source for the oil was identified so it likely came from a vehicle that was idling in the area. DUK environmental technicians were contacted to clean it up.	<1	01/11/2019
108	Emission	Minor oil spill in the vicinity of the entrance to the main compound, in the area of the St. Fitticks road diversion works. Estimated there is maybe 0.25 litre of oil on the ground. Likely source might be one of the generators located in the area. DUK environmental technicians were contacted to clean it up.	<1	04/11/2019

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109	Emission	A spill of approximately 3 litres of hydraulic oil was reported at the West Quay caused by a burst hydraulic hose. The spill was cleaned up by the environmental technicians using absorbent granules.	<5	22/11/2019
110	Emission	A DUK operative reported observing a spill at the Van Oord maintenance area while work was carried out on the van Tunen long reach. The Van Oord works manager investigated and reported the spill was minor and was cleaned up immediately.	<1	09/01/2020
111	Stockpile Management	Early warning from DUK to Van Oord regarding the stockpiling of waste dredge material on top of reusable material stockpiles resulting in contamination.	N/A	30/01/2020