



AEROSOL MONITORING CERTIFICATE OF ANALYSIS



CLIENT CHRIS THOMPSON - HMPS TEST DATE 06/12/18

ADDRESS 7TH FLOOR, 5 ENDEAVOUR SQUARE, PAGE NO 1 OF 3
WESTFIELD AVENUE, STRATFORD,
LONDON E20 1JN JOB No 183215

SITE/LOCATION WEST RUISLIP STATION/ CRANSTON CERTIFICATE No. C183215/061218/0
CLOSE CAR PARK – BLOCK B

PROCESS BEING MONITORED DIESEL FUMES FROM LOCOMOTIVE MOVEMENT

SAMPLES STATIC ANALYST (S) CG

ANALYSIS LOCATION BALANCE ROOM, MAIN LABORATORY NO. OF SAMPLES 3 + Blanks

TEST PROCEDURES

TEST METHOD CARRIED OUT IN ACCORDANCE WITH MDHS 14/4 AND IN-HOUSE TEST PROCEDURE 4R-E206. SAMPLING STRATEGY CARRIED OUT IN GENERAL ACCORDANCE WITH HSG 173 MONITORING STRATEGIES FOR TOXIC SUBSTANCES.

TWA: 8-HOUR TIME WEIGHTED AVERAGE

FILTER NUMBER	SAMPLE TYPE *	SAMPLE LOCATION	START TIME	BREAKS IN SAMPLING (IF APPLICABLE)		FINISH TIME	FLOW RATE / (l/min)	VOLUME OF A R / (litres)	CALC. DUST CONC ^N / (mg/m ³)	TWA. / (mg/m ³)
				TIME OFF	TIME ON					
183215/01	R	Static 1 – On footbridge leading to train crew depot	07:34	-	-	10:24	2.2	374	0.02	
183215/02	R	Static 2 – Running office A/291	07:44	-	-	10:19	2.2	341	<0.02	
183215/03	R	Static 3 – Car park Block B, Cranston Close	07:55	-	-	10:03	2.2	281.6	0.06	

* RESPIRABLE: R, THORACIC: T, INHALABLE: I

TEMPERATURE: 12.5 °C

PRESSURE: 1011.9 MILLIBARS

UNCERTAINTY OF MEASUREMENT

THE LOWER LIMIT OF DETECTION IS CALCULATED TO BE 0.02MG. THE OVERALL ACCURACY OF MEASUREMENT IS DEPENDANT ON THE SAMPLING VOLUME: THE GREATER THE SAMPLING VOLUME, THE LOWER THE LIMIT OF ACCURATE MEASUREMENT.

HSE WORKPLACE EXPOSURE LIMIT (EH40/05): RESPIRABLE DUST : 4 MG/M³ (8-HOUR TWA)
INHALABLE DUST: 10 MG/M³ (8-HOUR TWA)

SAMPLES TAKEN ARE HELD IN THE MAIN LABORATORY AND WILL BE DISPOSED OF AFTER A MINIMUM PERIOD OF SIX MONTHS.

CERTIFICATE PREPARED BY

SIGNED

GRAVIMETRIC ANALYSIS CARRIED OUT BY:

SIGNED

CERTIFIED BY

SIGNED

ISSUE DATE

20/12/18

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F L T E R NUMBER	HEAD/ PUMP NO.	START FLOW RATE / (l/min)	START T M E	F N A L FLOW RATE / (l/min)	F N I S H TIME	FLOW RATE CHECK / (l/min)	TIME	FLOW RATE CHECK / (l/min)	TIME	FLOW RATE CHECK / (l/min)	TIME	FLOW RATE CHECK / (l/min)	TIME
183215/01	CD/ 441159	2.2	07:34	2.2	10:24	-	-	-	-	-	-	-	-
183215/02	4RS42/ 441150	2.2	07:44	2.2	10:19	-	-	-	-	-	-	-	-
183215/03	4RS45/ 441162	2.2	07:55	2.2	10:03	-	-	-	-	-	-	-	-

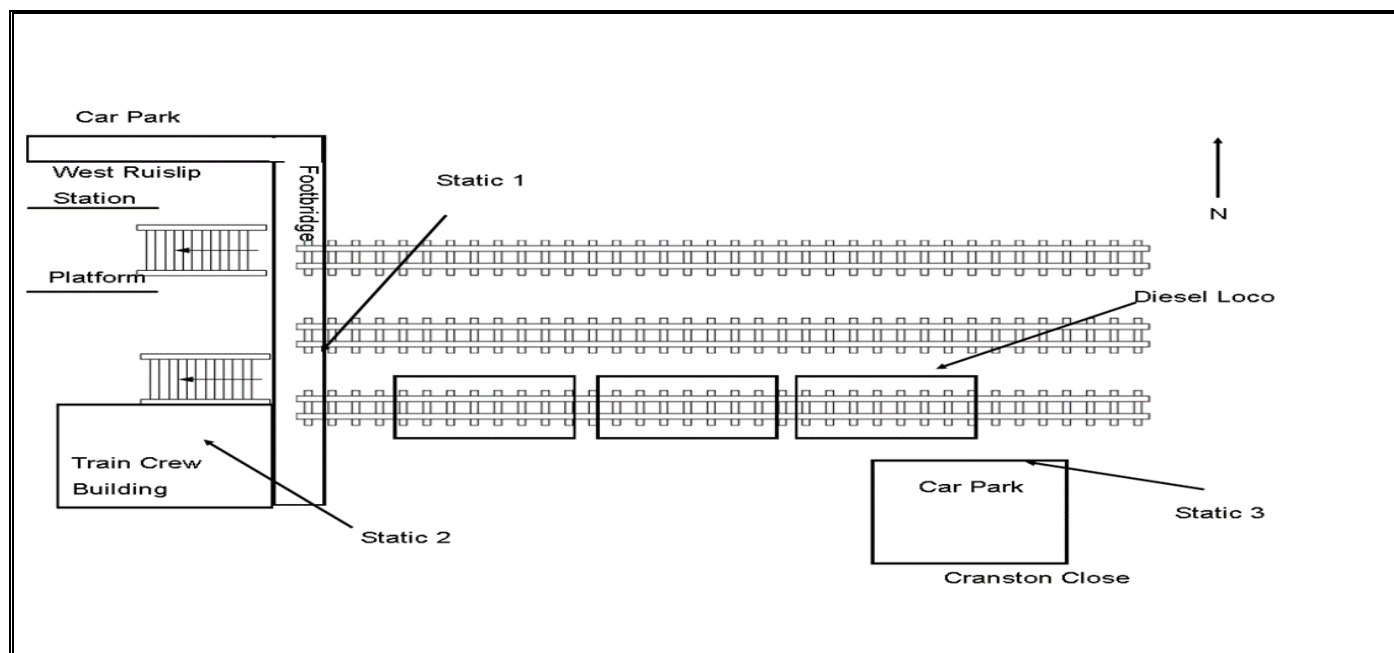
ENVIRONMENTAL CONDITIONS

START TEMPERATURE 12.3 °C

START PRESSURE 1011.5 MILLIBARS

FINAL TEMPERATURE 12.6 °C

FINAL PRESSURE 1012.3 MILLIBARS

BALANCE
SERIAL NO. L40355CALIBRATION
DUE DATE JUNE 2019TIME KEEPING
EQUIPMENT CG
TIMEPIECECALIBRATION
DUE DATE 30/04/19FLOWMETER
REF. NO. 410286CALIBRATION
DUE DATE 07/02/19TEMPERATURE
GAUGE. NO. 410453CALIBRATION DUE
DATE 23/01/19**SITE DIAGRAM**

REMARKS/OBSERVATIONS

THE OPINIONS AND INTERPRETATIONS EXPRESSED HEREIN ARE OUTSIDE THE SCOPE OF THE UKAS ACCREDITATION

AIR VELOCITY, IF REQUIRED : METRES PER SECOND

AIR DIRECTION, IF REQUIRED :

DURING SAMPLING

07:15	4RS STAFF AT WEST RUISLIP STATION. SIGN IN WITH SS
	WEATHER IS DAMP AND CLOUDY
07:34	1 x AM RESPIRABLE HEAD PUMP COMMENCED + GM ABIGAIL COMMENCED AT STATIC 1 – FOOTBRIDGE LEAD NG TO TRAIN CREW
	DEPOT
07:44	1 x AM RESPIRABLE HEAD PUMP COMMENCED + GAS MONITOR (GM) KAMIL COMMENCED AT STATIC 2 – RUNNING OFFICE A/291
07:55	1 x AM RESPIRABLE HEAD PUMP COMMENCED + (GM) PENELOPE COMMENCED AT STATIC 3 – CAR PARK BLOCK B, CRANSTON
	CLOSE
	NO TRAIN MOVEMENT AT THE MOMENT
10:00	TRA N MOVEMENT FOR TODAY HAS BEEN CANCELLED
10:03	GM PENELOPE AND STATIC 3 AM STOPPED
10:19 -10:24	STATIC 1 AND STATIC 2 AM PUMPS + GMS STOPPED.
	SIGN OUT WITH SS
10:30	4RS OFF SITE

DURING GRAVIMETRIC ANALYSIS

NONE NOTED