



# AEROSOL MONITORING CERTIFICATE OF ANALYSIS



CLIENT CHRIS THOMPSON - HMPS TEST DATE 10/12/18  
ADDRESS 7TH FLOOR, 5 ENDEAVOUR SQUARE, PAGE NO 1 OF 3  
WESTFIELD AVENUE, LONDON E20 1JN JOB NO 183215  
WEST RUISLIP STATION/  
SITE/LOCATION CRANSTON CLOSE CAR PARK – BLOCK C183215/101218/0  
B CERTIFICATE NO. 1  
PROCESS BEING MONITORED DIESEL EXHAUST LEVELS DURING TRAIN MOVEMENT  
SAMPLES STATIC ANALYST (S) APO  
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 <sup>N</sup> / (mg/m³)	TWA. / (mg/m³)
				TIME OFF	T ME ON					
183215/04	R	Cranston Close Car Park ( P3)	07:57	-	-	Failed				-
183215/05	R	Footbridge Leading to Train Crew Depot (P2)	07:07	-	-	10:03	2.2	376.99	< 0.02	
183215/06	R	Meeting Room A/802 (P1)	06:58	-	-	10:09	2.2	409.12	< 0.02	

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

TEMPERATURE: 7.8 °C

PRESSURE: 1024.15 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/M<sup>3</sup> (8-HOUR TWA)  
INHALABLE DUST: 10 MG/M<sup>3</sup> (8-HOUR TWA)

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

CERTIFICATE PREPARED BY                       
GRAVIMETRIC ANALYSIS CARRIED OUT BY:                       
CERTIFIED BY                     

SIGNED

SIGNED

SIGNED

ISSUE DATE

21/12/18

Head Office: Unit 3, Metro Centre, Britannia Way, London, NW10 7PA  
Laboratory: Unit 11, Ironbridge Close, Great Central Way, London, NW10 0UF  
T: +44(0)20 8955 9680 F: +44(0)20 8955 9689 E-mail: enquiries@4-rail.com  
VAT Registration Number: 691 5975 82 Company Registration No.: 3256863

FILTER NUMBER	HEAD/ PUMP NO.	START FLOW RATE / (l/min)	START TIME	FINAL FLOW RATE / (l/min)	FINISH 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
183215/04	4RS41/ 410625	2.2	07:57	-	-	Air sampler failed.							
183215/05	4RS43/ 410627	2.2	07:07	2.2	10:03	2.2	10:03	-	-	-	-	-	-
183215/06	4RS44/ 410623	2.2	06:58	2.2	10:09	2.2	10:09	-	-	-	-	-	-

**ENVIRONMENTAL CONDITIONS**

START TEMPERATURE 7.5 °C

START PRESSURE 1024.3 MILLIBARS

FINAL TEMPERATURE 8.1 °C

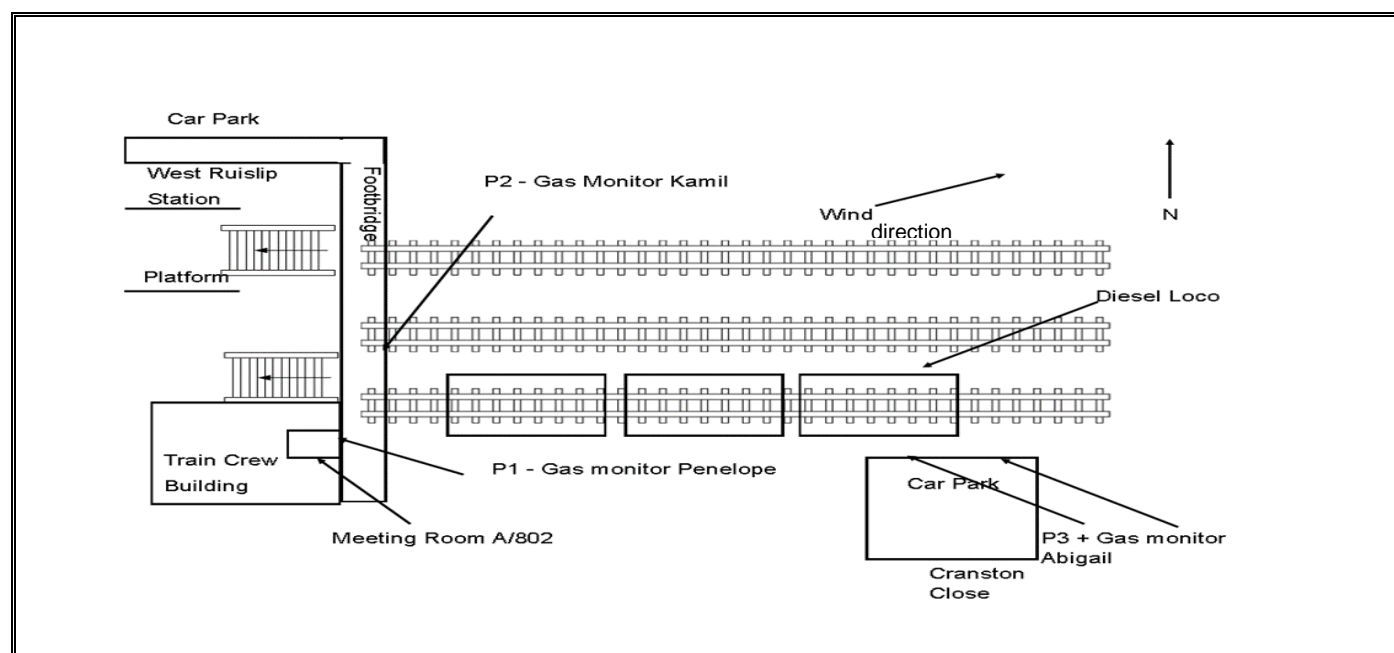
FINAL PRESSURE 1024.0 MILLIBARS

BALANCE SERIAL NO. L40355 CALIBRATION DUE DATE JUNE 2019

TIME KEEPING EQUIPMENT 460038 CALIBRATION DUE DATE 13/02/19

FLOWMETER REF. NO. 410365 CALIBRATION DUE DATE 21/02/19

TEMPERATURE GAUGE. NO. 410789 CALIBRATION DUE DATE 25/01/19

**SITE DIAGRAM**

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

AIR DIRECTION, IF REQUIRED :

[illegible]

NONE NOTED

F43 ISSUE 11 October 2018