



# Exova Jones Environmental

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**Attention :** Heather Rutter  
**Date :** 5th February, 2019  
**Your reference :** GGS1826  
**Our reference :** Test Report 19/1180 Batch 1  
**Location :** Balcombe  
**Date samples received :** 25th January, 2019  
**Status :** Final report  
**Issue :** 1

Six samples were received for analysis on 25th January, 2019 of which six were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

**Compiled By:**

**Phil Sommerton BSc**

**Project Manager**

Client Name: Ground Gas Solutions  
 Reference: GGS1826  
 Location: Balcombe  
 Contact: Heather Rutter  
 JE Job No.: 19/1180

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle  
 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

J E Sample No.	1-6		7-12		13-18		19-24		25-31		32-38		LOD/LOR	Units	Method No.
	Sample ID	BALSW02	BALSW04	BALSW05	BALSW06	BALMW01-PRE PURGE	BALMW01-POST PURGE								
Depth															
COC No / misc															
Containers	V H H N P G	V H H N P G	V H H N P G	V H H N P G	V H H N P BOD G	V H H N P BOD G									
Sample Date	24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019									
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water	Ground Water	Ground Water									
Batch Number	1	1	1	1	1	1									
Date of Receipt	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019									
Dissolved Aluminium #	<20	<20	<20	<20	<20	<20						<20	ug/l	TM30/PM14	
Dissolved Antimony #	<2	<2	<2	<2	<2	<2						<2	ug/l	TM30/PM14	
Dissolved Arsenic #	<2.5	<2.5	<2.5	<2.5	3.0	3.2						<2.5	ug/l	TM30/PM14	
Dissolved Barium #	15	15	15	16	317	247						<3	ug/l	TM30/PM14	
Dissolved Beryllium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						<0.5	ug/l	TM30/PM14	
Dissolved Boron	24	20	28	25	795	818						<12	ug/l	TM30/PM14	
Dissolved Cadmium #	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						<0.5	ug/l	TM30/PM14	
Dissolved Calcium #	34.3	39.0	30.5	32.5	1.4	1.2						<0.2	mg/l	TM30/PM14	
Total Dissolved Chromium #	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5						<1.5	ug/l	TM30/PM14	
Dissolved Cobalt #	<2	<2	<2	<2	<2	<2						<2	ug/l	TM30/PM14	
Dissolved Copper #	<7	<7	<7	<7	<7	<7						<7	ug/l	TM30/PM14	
Total Dissolved Iron #	82	175	109	117	<20	<20						<20	ug/l	TM30/PM14	
Dissolved Lead #	<5	<5	<5	<5	<5	<5						<5	ug/l	TM30/PM14	
Dissolved Lithium	-	-	-	-	<5	<5						<5	ug/l	TM30/PM14	
Dissolved Magnesium #	4.6	4.8	4.3	4.4	0.2	0.2						<0.1	mg/l	TM30/PM14	
Dissolved Manganese #	41	184	52	40	6	5						<2	ug/l	TM30/PM14	
Dissolved Mercury #	<1	<1	<1	<1	<1	<1						<1	ug/l	TM30/PM14	
Dissolved Molybdenum #	<2	<2	<2	<2	<2	<2						<2	ug/l	TM30/PM14	
Dissolved Nickel #	<2	<2	<2	<2	<2	<2						<2	ug/l	TM30/PM14	
Dissolved Potassium #	2.7	2.8	2.6	2.6	0.7	0.7						<0.1	mg/l	TM30/PM14	
Dissolved Selenium #	<3	<3	<3	<3	<3	<3						<3	ug/l	TM30/PM14	
Dissolved Sodium #	16.0	13.9	15.6	16.2	197.7	200.8						<0.1	mg/l	TM30/PM14	
Dissolved Strontium	138	121	116	131	36	32						<5	ug/l	TM30/PM14	
Dissolved Vanadium #	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5						<1.5	ug/l	TM30/PM14	
Dissolved Zinc #	<3	3	3	3	11	<3						<3	ug/l	TM30/PM14	

Please see attached notes for all abbreviations and acronyms

**Client Name:** Ground Gas Solutions  
**Reference:** GGS1826  
**Location:** Balcombe  
**Contact:** Heather Rutter  
**JE Job No.:** 19/1180

**Report : Liquid**

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

J E Sample No.	1-6	7-12	13-18	19-24	25-31	32-38								
Sample ID	BALSW02	BALSW04	BALSW05	BALSW06	BALMW01-PRE PURGE	BALMW01-POST PURGE								
Depth														
COC No / misc														
Containers	V H H N P G	V H H N P G	V H H N P G	V H H N P G	V H H N P BOD G	V H H N P BOD G								
Sample Date	24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019								
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water	Ground Water	Ground Water								
Batch Number	1	1	1	1	1	1								
Date of Receipt	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019								
											LOD/LOR	Units	Method No.	
PAH MS														
Naphthalene #	<0.1	<0.1	<0.1	<0.1	-	-						<0.1	ug/l	TM4/PM30
Acenaphthylene #	<0.013	<0.013	<0.013	<0.013	-	-						<0.013	ug/l	TM4/PM30
Acenaphthene #	<0.013	<0.013	<0.013	<0.013	-	-						<0.013	ug/l	TM4/PM30
Fluorene #	<0.014	<0.014	<0.014	<0.014	-	-						<0.014	ug/l	TM4/PM30
Phenanthrene #	<0.011	<0.011	<0.011	<0.011	-	-						<0.011	ug/l	TM4/PM30
Anthracene #	<0.013	<0.013	<0.013	<0.013	-	-						<0.013	ug/l	TM4/PM30
Fluoranthene #	<0.012	<0.012	<0.012	<0.012	-	-						<0.012	ug/l	TM4/PM30
Pyrene #	<0.013	<0.013	<0.013	<0.013	-	-						<0.013	ug/l	TM4/PM30
Benzo(a)anthracene #	<0.015	<0.015	<0.015	<0.015	-	-						<0.015	ug/l	TM4/PM30
Chrysene #	<0.011	<0.011	<0.011	<0.011	-	-						<0.011	ug/l	TM4/PM30
Benzo(bk)fluoranthene #	<0.018	<0.018	<0.018	<0.018	-	-						<0.018	ug/l	TM4/PM30
Benzo(a)pyrene #	<0.016	<0.016	<0.016	<0.016	-	-						<0.016	ug/l	TM4/PM30
Indeno(123cd)pyrene #	<0.011	<0.011	<0.011	<0.011	-	-						<0.011	ug/l	TM4/PM30
Dibenzo(ah)anthracene #	<0.01	<0.01	<0.01	<0.01	-	-						<0.01	ug/l	TM4/PM30
Benzo(ghi)perylene #	<0.011	<0.011	<0.011	<0.011	-	-						<0.011	ug/l	TM4/PM30
PAH 16 Total #	<0.195	<0.195	<0.195	<0.195	-	-						<0.195	ug/l	TM4/PM30
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01	-	-						<0.01	ug/l	TM4/PM30
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	-	-						<0.01	ug/l	TM4/PM30
PAH Surrogate % Recovery	85	87	88	83	-	-						<0	%	TM4/PM30
EPH (C8-C40) #	<10	<10	<10	<10	-	-						<10	ug/l	TM5/PM30
TPH CWG														
Aliphatics														
>C5-C6 #	-	-	-	-	<10	<10						<10	ug/l	TM36/PM12
>C6-C8 #	-	-	-	-	<10	<10						<10	ug/l	TM36/PM12
>C8-C10 #	-	-	-	-	<10	<10						<10	ug/l	TM36/PM12
>C10-C12 #	-	-	-	-	<5	<5						<5	ug/l	TM5/PM16/PM30
>C12-C16 #	-	-	-	-	<10	<10						<10	ug/l	TM5/PM16/PM30
>C16-C21 #	-	-	-	-	<10	<10						<10	ug/l	TM5/PM16/PM30
>C21-C35 #	-	-	-	-	<10	<10						<10	ug/l	TM5/PM16/PM30
Total aliphatics C5-35 #	-	-	-	-	<10	<10						<10	ug/l	TM5/PM16/PM30
Aromatics														
>C5-EC7 #	-	-	-	-	<10	<10						<10	ug/l	TM36/PM12
>EC7-EC8 #	-	-	-	-	<10	<10						<10	ug/l	TM36/PM12
>EC8-EC10 #	-	-	-	-	<10	<10						<10	ug/l	TM36/PM12
>EC10-EC12 #	-	-	-	-	<5	<5						<5	ug/l	TM5/PM16/PM30
>EC12-EC16 #	-	-	-	-	<10	<10						<10	ug/l	TM5/PM16/PM30
>EC16-EC21 #	-	-	-	-	<10	<10						<10	ug/l	TM5/PM16/PM30
>EC21-EC35 #	-	-	-	-	<10	<10						<10	ug/l	TM5/PM16/PM30
Total aromatics C5-35 #	-	-	-	-	<10	<10						<10	ug/l	TM5/PM16/PM30
Total aliphatics and aromatics(C5-35) #	-	-	-	-	<10	<10						<10	ug/l	TM5/PM16/PM30

Please see attached notes for all abbreviations and acronyms

**Client Name:** Ground Gas Solutions  
**Reference:** GGS1826  
**Location:** Balcombe  
**Contact:** Heather Rutter  
**JE Job No.:** 19/1180

**Report :** Liquid

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle  
H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

J E Sample No.	1-6	7-12	13-18	19-24	25-31	32-38							
Sample ID	BALSW02	BALSW04	BALSW05	BALSW06	BALMW01- PRE PURGE	BALMW01- POST PURGE							
Depth													
COC No / misc													
Containers	V H H N P G	V H H N P G	V H H N P G	V H H N P G	V H H N P B O D G	V H H N P B O D G							
Sample Date	24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019							
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water	Ground Water	Ground Water							
Batch Number	1	1	1	1	1	1							
Date of Receipt	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019	25/01/2019							
							LOD/LOR	Units	Method No.				
GRO (>C4-C8) #	<10	<10	<10	<10	-	-	<10	ug/l	TM36/PM12				
GRO (>C8-C12) #	<10	<10	<10	<10	-	-	<10	ug/l	TM36/PM12				
GRO (>C4-C12) #	<10	<10	<10	<10	-	-	<10	ug/l	TM36/PM12				
MTBE #	<5	<5	<5	<5	<5	<5	<5	ug/l	TM31/PM12				
Benzene #	<5	<5	<5	<5	<5	<5	<5	ug/l	TM31/PM12				
Toluene #	<5	<5	<5	<5	<5	<5	<5	ug/l	TM31/PM12				
Ethylbenzene #	<5	<5	<5	<5	<5	<5	<5	ug/l	TM31/PM12				
m/p-Xylene #	<5	<5	<5	<5	<5	<5	<5	ug/l	TM31/PM12				
o-Xylene #	<5	<5	<5	<5	<5	<5	<5	ug/l	TM31/PM12				
Chloride #	24.9	24.5	24.1	23.9	-	-	<0.3	mg/l	TM38/PM0				
Nitrate as NO3 #	-	-	-	-	<0.2	<0.2	<0.2	mg/l	TM38/PM0				
Nitrite as NO2 #	-	-	-	-	<0.02	<0.02	<0.02	mg/l	TM38/PM0				
Ammoniacal Nitrogen as N #	0.04	0.05	0.04	0.04	0.32	0.31	<0.03	mg/l	TM38/PM0				
Total Alkalinity as CaCO3 #	88	88	88	80	-	-	<1	mg/l	TM75/PM0				
BOD (Settled) #	-	-	-	-	<1	4	<1	mg/l	TM58/PM0				
COD (Settled) #	9	8	<7	10	<7	<7	<7	mg/l	TM57/PM0				
Electrical Conductivity @25C #	274	283	259	250	-	-	<2	uS/cm	TM76/PM0				
pH #	7.71	6.76	8.01	6.69	8.85	8.85	<0.01	pH units	TM73/PM0				
Salinity	-	-	-	-	<0.1	<0.1	<0.1	%	TM64/PM0				
Total Dissolved Solids #	-	-	-	-	482	563	<35	mg/l	TM20/PM0				
Total Suspended Solids #	<10	<10	<10	<10	<10	<10	<10	mg/l	TM37/PM0				

Please see attached notes for all abbreviations and acronyms

**Client Name:** Ground Gas Solutions  
**Reference:** GGS1826  
**Location:** Balcombe  
**Contact:** Heather Rutter

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	Analysis	Reason
No deviating sample report results for job 19/1180						

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

# NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 19/1180

## SOILS

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

## WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

## DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

## SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

## DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

## BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

## NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

## REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Please include all sections of this report if it is reproduced

All solid results are expressed on a dry weight basis unless stated otherwise.

**ABBREVIATIONS and ACRONYMS USED**

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa.
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to an Exova Jones Environmental approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

JE Job No: 19/1180

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM4	Modified USEPA 8270 method for the solvent extraction and determination of 16 PAHs by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.				
TM4	Modified USEPA 8270 method for the solvent extraction and determination of 16 PAHs by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM5	Modified USEPA 8015B method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) with carbon banding within the range C8-C40 GC-FID.	PM16/PM30	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE/Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM5	Modified USEPA 8015B method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) with carbon banding within the range C8-C40 GC-FID.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.	Yes			
TM5/TM36	please refer to TM5 and TM36 for method details	PM12/PM16/PM30	please refer to PM16/PM30 and PM12 for method details	Yes			
TM20	Modified BS 1377-3: 1990/USEPA 160.3 Gravimetric determination of Total Dissolved Solids/Total Solids	PM0	No preparation is required.	Yes			
TM30	Determination of Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry). Modified US EPA Method 200.7, 6010B and BS EN ISO 11885 2009	PM14	Analysis of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for dissolved metals and acidified if required.				
TM30	Determination of Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry). Modified US EPA Method 200.7, 6010B and BS EN ISO 11885 2009	PM14	Analysis of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for dissolved metals and acidified if required.	Yes			
TM31	Modified USEPA 8015B. Determination of Methylterbutylether, Benzene, Toluene, Ethylbenzene and Xylene by headspace GC-FID.	PM12	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.	Yes			
TM36	Modified US EPA method 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results can be confirmed using GCMS.	PM12	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.	Yes			



JE Job No: 19/1180

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM37	Modified methods USEPA 160.2, EN872:2005 and SMWW 2540D. Gravimetric determination of Total Suspended Solids. Sample is filtered through a 1.5um pore size glass fibre filter and the resulting residue is dried and weighed.	PM0	No preparation is required.	Yes			
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods 325.2 (Chloride), 375.4 (Sulphate), 365.2 (o-Phosphate), 353.1 (TON), 354.1 (Nitrite), 350.1 (NH4+) comparable to BS ISO 15923-1, 7196A (Hex Cr)	PM0	No preparation is required.	Yes			
TM57	Modified US EPA Method 410.4. Comparable with ISO 15705:2002. Chemical Oxygen Demand is determined by hot digestion with Potassium Dichromate and measured spectrophotometrically.	PM0	No preparation is required.	Yes			
TM58	APHA standard methods for the examination of water and waste water (SMWW) 5210B. Comparable with ISO 5815:1989. Measurement of Biochemical Oxygen Demand. When cBOD (Carbonaceous BOD) is requested a nitrification inhibitor is added which prevents the oxidation of reduced forms of nitrogen, such as ammonia, nitrite and organic nitrogen which exert a nitrogenous demand. Determination of Dissolved Oxygen using the Hach DO200 Dissolved Oxygen Meter.	PM0	No preparation is required.	Yes			
TM64	Determination of the salinity of liquid samples using a salinity conductivity meter.	PM0	No preparation is required.				
TM73	Modified US EPA methods 150.1 and 9045D and BS1377:1990. Determination of pH by Metrohm automated probe analyser.	PM0	No preparation is required.	Yes			
TM75	Modified US EPA method 310.1. Determination of Alkalinity by Metrohm automated titration analyser.	PM0	No preparation is required.	Yes			
TM76	Modified US EPA method 120.1. Determination of Specific Conductance by Metrohm automated probe analyser.	PM0	No preparation is required.	Yes			