

**Mihai Iosif**

AUDITECO GES Romania
1 Splaiul Independentei
Bl. 16, ent. 1, fl. 5, apt. 18
Sector 5, Bucharest
040011 Romania

i2 Analytical Ltd.
ul. Pionierów 39,
41-711 Ruda Śląska,
Poland

t: +40-21-411 51 51
f: +40-31-106 37 46
e: mihai.iosif@auditeco.ro

t: 004832 3426011
f: 004832 3426012

Analytical Report Number : 19-39535

Project / Site name: PROJECT PITESTI C018 2019

Samples received on: 02/05/2019

Your job number:

Samples instructed on: 02/05/2019

Your order number:

Analysis completed by: 09/05/2019

Report Issue Number: 1

Report issued on: 10-05-2019

Samples Analysed: 26 soil samples

i2 Analytical Limited Sp. z o.o.
Oddział w Polsce
ul. Pionierów 39
41-711 Ruda Śląska
NIP 2050000762

Signed:  Edyta Pichura
Młodszy Specjalista ds. Jakości

Edyta Pichura
Jr Quality Specialist
For & on behalf of i2 Analytical Ltd.

Other office located at: 7 Woodshots Meadow Croxley Green Business Park Watford Herts WD18 8YS UK

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting

Sampling and delivery by client.

Excel copies of reports are only valid when accompanied by this PDF certificate.



Analytical Report Number: 19-39535

Project / Site name: PROJECT PITESTI C018 2019

Lab Sample Number				1212704*	1212705*	1212706*	1212707*
Sample Reference				P1	P1	P2	P2
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.3	0.6	0.3	0.5
Date Sampled				25/04/2019	25/04/2019	25/04/2019	25/04/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status	

Moisture Content	%	N/A	NONE	16	15	13	11
Asbestos Identification Name	Type	N/A	ISO 17025	-	-	Chrysotile- Loose Fibrous Debris	-
Asbestos in Soil Screen	Type	N/A	ISO 17025	Not-detected	Not-detected	Detected	Not-detected

General Inorganics

pH	pH Units	N/A	ISO 17025	7.8	7.3	7.7	8.0
Total Sulphate as SO ₄	mg/kg	50	ISO 17025	400	340	490	680
Total Organic Carbon (TOC)	%	0.1	ISO 17025	1.0	0.9	2.3	2.0

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	ISO 17025	4.5	5.9	7.7	6.5
Barium (aqua regia extractable)	mg/kg	1	ISO 17025	150	120	210	130
Cadmium (aqua regia extractable)	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	0.2	0.3
Chromium (aqua regia extractable)	mg/kg	1	ISO 17025	31	31	37	31
Copper (aqua regia extractable)	mg/kg	1	ISO 17025	23	20	67	83
Lead (aqua regia extractable)	mg/kg	1	ISO 17025	18	17	140	120
Mercury (aqua regia extractable)	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	1.4
Nickel (aqua regia extractable)	mg/kg	1	ISO 17025	19	21	30	28
Zinc (aqua regia extractable)	mg/kg	1	ISO 17025	69	67	160	110

Monoaromatics

Benzene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Total BTEX	ug/kg	6	ISO 17025	< 6.0	< 6.0	< 6.0	< 6.0



Analytical Report Number: 19-39535

Project / Site name: PROJECT PITESTI C018 2019

Lab Sample Number				1212704*	1212705*	1212706*	1212707*
Sample Reference				P1	P1	P2	P2
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.3	0.6	0.3	0.5
Date Sampled				25/04/2019	25/04/2019	25/04/2019	25/04/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status	

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	ISO 17025	< 2.0	< 2.0	5.7	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	ISO 17025	< 8.0	< 8.0	10	21
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	ISO 17025	< 8.0	< 8.0	110	180
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	ISO 17025	< 10	< 10	130	200

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	ISO 17025	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	ISO 17025	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	ISO 17025	< 10	< 10	73	170
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	ISO 17025	< 10	< 10	78	180

* The temperature of samples during transportation while in the custody of the laboratory exceeded the required 80C. Results may be invalid and should be interpreted with caution.



Analytical Report Number: 19-39535

Project / Site name: PROJECT PITESTI C018 2019

Lab Sample Number				1212708*	1212709*	1212710*	1212711*
Sample Reference				P3	P3	P4	P4
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.3	0.5	0.3	0.6
Date Sampled				25/04/2019	25/04/2019	25/04/2019	25/04/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				

Moisture Content	%	N/A	NONE	12	13	17	15
Asbestos Identification Name	Type	N/A	ISO 17025	-	-	-	-
Asbestos in Soil Screen	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected

General Inorganics

pH	pH Units	N/A	ISO 17025	7.3	7.4	7.6	7.8
Total Sulphate as SO ₄	mg/kg	50	ISO 17025	600	550	700	440
Total Organic Carbon (TOC)	%	0.1	ISO 17025	2.2	2.3	3.7	1.1

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	ISO 17025	6.3	8.7	9.5	4.2
Barium (aqua regia extractable)	mg/kg	1	ISO 17025	190	240	170	130
Cadmium (aqua regia extractable)	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	ISO 17025	32	32	31	21
Copper (aqua regia extractable)	mg/kg	1	ISO 17025	41	41	54	17
Lead (aqua regia extractable)	mg/kg	1	ISO 17025	25	22	43	18
Mercury (aqua regia extractable)	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	ISO 17025	24	27	30	21
Zinc (aqua regia extractable)	mg/kg	1	ISO 17025	91	67	79	52

Monoaromatics

Benzene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Total BTEX	ug/kg	6	ISO 17025	< 6.0	< 6.0	< 6.0	< 6.0



Analytical Report Number: 19-39535

Project / Site name: PROJECT PITESTI C018 2019

Lab Sample Number				1212708*	1212709*	1212710*	1212711*
Sample Reference				P3	P3	P4	P4
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.3	0.5	0.3	0.6
Date Sampled				25/04/2019	25/04/2019	25/04/2019	25/04/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status	

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	ISO 17025	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	ISO 17025	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	ISO 17025	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	ISO 17025	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	ISO 17025	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	ISO 17025	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	ISO 17025	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	ISO 17025	< 10	< 10	< 10	< 10

* The temperature of samples during transportation while in the custody of the laboratory exceeded the required 80C. Results may be invalid and should be interpreted with caution.



Analytical Report Number: 19-39535

Project / Site name: PROJECT PITESTI C018 2019

Lab Sample Number				1212712*	1212713*	1212714*	1212715*
Sample Reference				P5	P5	P6	P6
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.3	0.6	0.3	0.6
Date Sampled				25/04/2019	25/04/2019	25/04/2019	25/04/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				

Moisture Content	%	N/A	NONE	15	24	18	17
Asbestos Identification Name	Type	N/A	ISO 17025	-	-	-	-
Asbestos in Soil Screen	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected

General Inorganics

pH	pH Units	N/A	ISO 17025	8.1	7.9	8.0	8.2
Total Sulphate as SO ₄	mg/kg	50	ISO 17025	380	430	230	450
Total Organic Carbon (TOC)	%	0.1	ISO 17025	1.4	2.6	0.6	0.9

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	ISO 17025	5.1	5.4	4.7	5.4
Barium (aqua regia extractable)	mg/kg	1	ISO 17025	140	110	120	110
Cadmium (aqua regia extractable)	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	ISO 17025	31	31	38	26
Copper (aqua regia extractable)	mg/kg	1	ISO 17025	24	25	25	20
Lead (aqua regia extractable)	mg/kg	1	ISO 17025	74	50	24	35
Mercury (aqua regia extractable)	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	ISO 17025	21	23	30	24
Zinc (aqua regia extractable)	mg/kg	1	ISO 17025	87	63	56	66

Monoaromatics

Benzene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Total BTEX	ug/kg	6	ISO 17025	< 6.0	< 6.0	< 6.0	< 6.0



Analytical Report Number: 19-39535

Project / Site name: PROJECT PITESTI C018 2019

Lab Sample Number				1212712*	1212713*	1212714*	1212715*
Sample Reference				P5	P5	P6	P6
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.3	0.6	0.3	0.6
Date Sampled				25/04/2019	25/04/2019	25/04/2019	25/04/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status	

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	ISO 17025	< 2.0	< 2.0	< 2.0	5.3
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	ISO 17025	< 8.0	< 8.0	< 8.0	20
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	ISO 17025	< 8.0	< 8.0	< 8.0	25
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	ISO 17025	< 10	< 10	< 10	50

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	ISO 17025	< 2.0	< 2.0	6.1	3.6
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	ISO 17025	< 10	< 10	28	26
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	ISO 17025	< 10	< 10	27	28
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	ISO 17025	< 10	< 10	62	58

* The temperature of samples during transportation while in the custody of the laboratory exceeded the required 80C. Results may be invalid and should be interpreted with caution.



Analytical Report Number: 19-39535

Project / Site name: PROJECT PITESTI C018 2019

Lab Sample Number				1212716*	1212717*	1212718*	1212719*
Sample Reference				P8	P8	P9	P9
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.3	0.5	0.3	0.6
Date Sampled				25/04/2019	25/04/2019	25/04/2019	25/04/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status	

Moisture Content	%	N/A	NONE	9.1	10	12	13
Asbestos Identification Name	Type	N/A	ISO 17025	Chrysotile- Loose Fibres	Chrysotile- Loose Fibres	-	-
Asbestos in Soil Screen	Type	N/A	ISO 17025	Detected	Detected	Not-detected	Not-detected

General Inorganics

pH	pH Units	N/A	ISO 17025	8.0	8.2	8.5	11.6
Total Sulphate as SO ₄	mg/kg	50	ISO 17025	250	380	1300	2600
Total Organic Carbon (TOC)	%	0.1	ISO 17025	1.3	1.3	3.6	2.3

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	ISO 17025	5.2	3.8	17	17
Barium (aqua regia extractable)	mg/kg	1	ISO 17025	97	120	290	280
Cadmium (aqua regia extractable)	mg/kg	0.2	ISO 17025	< 0.2	0.2	0.4	0.6
Chromium (aqua regia extractable)	mg/kg	1	ISO 17025	30	40	160	130
Copper (aqua regia extractable)	mg/kg	1	ISO 17025	38	120	640	580
Lead (aqua regia extractable)	mg/kg	1	ISO 17025	190	460	840	2000
Mercury (aqua regia extractable)	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	0.6	0.7
Nickel (aqua regia extractable)	mg/kg	1	ISO 17025	18	27	69	61
Zinc (aqua regia extractable)	mg/kg	1	ISO 17025	87	160	430	440

Monoaromatics

Benzene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Total BTEX	ug/kg	6	ISO 17025	< 6.0	< 6.0	< 6.0	< 6.0



Analytical Report Number: 19-39535

Project / Site name: PROJECT PITESTI C018 2019

Lab Sample Number				1212716*	1212717*	1212718*	1212719*
Sample Reference				P8	P8	P9	P9
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.3	0.5	0.3	0.6
Date Sampled				25/04/2019	25/04/2019	25/04/2019	25/04/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status	

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	3.6
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	ISO 17025	< 2.0	< 2.0	< 2.0	19
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	ISO 17025	< 8.0	15	41	120
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	ISO 17025	< 8.0	80	450	750
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	ISO 17025	< 10	95	500	890

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	ISO 17025	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	ISO 17025	< 10	< 10	11	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	ISO 17025	< 10	< 10	200	200
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	ISO 17025	< 10	< 10	210	210

* The temperature of samples during transportation while in the custody of the laboratory exceeded the required 80C. Results may be invalid and should be interpreted with caution.



Analytical Report Number: 19-39535

Project / Site name: PROJECT PITESTI C018 2019

Lab Sample Number				1212720*	1212721*	1212722*	1212723*
Sample Reference				P10	P10	P11	P11
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.3	0.5	0.3	0.6
Date Sampled				25/04/2019	25/04/2019	25/04/2019	25/04/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				

Moisture Content	%	N/A	NONE	12	15	11	12
Asbestos Identification Name	Type	N/A	ISO 17025	-	-	-	Chrysotile- Loose Fibrous Debris
Asbestos in Soil Screen	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Detected

General Inorganics

pH	pH Units	N/A	ISO 17025	8.0	8.0	8.2	8.2
Total Sulphate as SO ₄	mg/kg	50	ISO 17025	880	740	370	430
Total Organic Carbon (TOC)	%	0.1	ISO 17025	1.2	1.1	0.6	0.9

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	ISO 17025	4.5	7.6	4.8	6.2
Barium (aqua regia extractable)	mg/kg	1	ISO 17025	240	250	140	160
Cadmium (aqua regia extractable)	mg/kg	0.2	ISO 17025	1.8	1.5	< 0.2	0.2
Chromium (aqua regia extractable)	mg/kg	1	ISO 17025	59	67	37	37
Copper (aqua regia extractable)	mg/kg	1	ISO 17025	50	52	43	68
Lead (aqua regia extractable)	mg/kg	1	ISO 17025	380	500	140	320
Mercury (aqua regia extractable)	mg/kg	0.3	ISO 17025	< 0.3	0.4	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	ISO 17025	18	26	23	28
Zinc (aqua regia extractable)	mg/kg	1	ISO 17025	470	430	160	230

Monoaromatics

Benzene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Total BTEX	ug/kg	6	ISO 17025	< 6.0	< 6.0	< 6.0	< 6.0



Analytical Report Number: 19-39535

Project / Site name: PROJECT PITESTI C018 2019

Lab Sample Number				1212720*	1212721*	1212722*	1212723*
Sample Reference				P10	P10	P11	P11
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.3	0.5	0.3	0.6
Date Sampled				25/04/2019	25/04/2019	25/04/2019	25/04/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status	

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	ISO 17025	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	ISO 17025	< 8.0	< 8.0	< 8.0	9.8
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	ISO 17025	66	46	< 8.0	53
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	ISO 17025	74	51	< 10	62

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	ISO 17025	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	ISO 17025	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	ISO 17025	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	ISO 17025	< 10	< 10	< 10	< 10

* The temperature of samples during transportation while in the custody of the laboratory exceeded the required 8°C. Results may be invalid and should be interpreted with caution.



Analytical Report Number: 19-39535

Project / Site name: PROJECT PITESTI C018 2019

Lab Sample Number				1212724*	1212725*	1212726*	1212727*
Sample Reference				P12	P12	P13	P13
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.3	0.6	0.3	0.5
Date Sampled				25/04/2019	25/04/2019	25/04/2019	25/04/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				

Moisture Content	%	N/A	NONE	4.7	5.5	11	8.4
Asbestos Identification Name	Type	N/A	ISO 17025	Chrysotile- Loose Fibres	Chrysotile- Loose Fibres	-	-
Asbestos in Soil Screen	Type	N/A	ISO 17025	Detected	Detected	Not-detected	Not-detected

General Inorganics

pH	pH Units	N/A	ISO 17025	8.3	8.3	8.2	8.3
Total Sulphate as SO ₄	mg/kg	50	ISO 17025	320	410	350	250
Total Organic Carbon (TOC)	%	0.1	ISO 17025	0.4	0.5	0.8	0.5

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	ISO 17025	4.1	6.8	4.4	3.3
Barium (aqua regia extractable)	mg/kg	1	ISO 17025	66	98	130	76
Cadmium (aqua regia extractable)	mg/kg	0.2	ISO 17025	0.2	< 0.2	< 0.2	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	ISO 17025	160	150	31	48
Copper (aqua regia extractable)	mg/kg	1	ISO 17025	410	490	26	35
Lead (aqua regia extractable)	mg/kg	1	ISO 17025	43	57	18	37
Mercury (aqua regia extractable)	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	ISO 17025	76	77	17	19
Zinc (aqua regia extractable)	mg/kg	1	ISO 17025	110	130	90	84

Monoaromatics

Benzene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Total BTEX	ug/kg	6	ISO 17025	< 6.0	< 6.0	< 6.0	< 6.0



Analytical Report Number: 19-39535

Project / Site name: PROJECT PITESTI C018 2019

Lab Sample Number				1212724*	1212725*	1212726*	1212727*
Sample Reference				P12	P12	P13	P13
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.3	0.6	0.3	0.5
Date Sampled				25/04/2019	25/04/2019	25/04/2019	25/04/2019
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status	

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	ISO 17025	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	ISO 17025	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	ISO 17025	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	ISO 17025	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	ISO 17025	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	ISO 17025	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	ISO 17025	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	ISO 17025	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	ISO 17025	< 10	< 10	< 10	< 10

* The temperature of samples during transportation while in the custody of the laboratory exceeded the required 8°C. Results may be invalid and should be interpreted with caution.



Analytical Report Number: 19-39535

Project / Site name: PROJECT PITESTI C018 2019

Lab Sample Number				1212728*	1212729*
Sample Reference				P14	P14
Sample Number				None Supplied	None Supplied
Depth (m)				0.3	0.6
Date Sampled				25/04/2019	25/04/2019
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection
				Accreditation Status	

Moisture Content	%	N/A	NONE	5.3	6.4
Asbestos Identification Name	Type	N/A	ISO 17025	-	-
Asbestos in Soil Screen	Type	N/A	ISO 17025	Not-detected	Not-detected

General Inorganics

pH	pH Units	N/A	ISO 17025	8.1	8.5
Total Sulphate as SO ₄	mg/kg	50	ISO 17025	270	390
Total Organic Carbon (TOC)	%	0.1	ISO 17025	0.3	0.3

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	ISO 17025	2.3	5.5
Barium (aqua regia extractable)	mg/kg	1	ISO 17025	36	22
Cadmium (aqua regia extractable)	mg/kg	0.2	ISO 17025	0.5	0.3
Chromium (aqua regia extractable)	mg/kg	1	ISO 17025	11	4.0
Copper (aqua regia extractable)	mg/kg	1	ISO 17025	78	35
Lead (aqua regia extractable)	mg/kg	1	ISO 17025	79	470
Mercury (aqua regia extractable)	mg/kg	0.3	ISO 17025	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	ISO 17025	5.7	3.4
Zinc (aqua regia extractable)	mg/kg	1	ISO 17025	180	99

Monoaromatics

Benzene	ug/kg	1	ISO 17025	< 1.0	< 1.0
Toluene	ug/kg	1	ISO 17025	< 1.0	< 1.0
Ethylbenzene	ug/kg	1	ISO 17025	< 1.0	< 1.0
p & m-xylene	ug/kg	1	ISO 17025	< 1.0	< 1.0
o-xylene	ug/kg	1	ISO 17025	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	ISO 17025	< 1.0	< 1.0
Total BTEX	ug/kg	6	ISO 17025	< 6.0	< 6.0



Analytical Report Number: 19-39535

Project / Site name: PROJECT PITESTI C018 2019

Lab Sample Number				1212728*	1212729*
Sample Reference				P14	P14
Sample Number				None Supplied	None Supplied
Depth (m)				0.3	0.6
Date Sampled				25/04/2019	25/04/2019
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection
				Accreditation Status	

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	ISO 17025	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	ISO 17025	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	ISO 17025	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	ISO 17025	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	ISO 17025	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	ISO 17025	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	ISO 17025	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	ISO 17025	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	ISO 17025	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	ISO 17025	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	ISO 17025	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	ISO 17025	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	ISO 17025	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	ISO 17025	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	ISO 17025	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	ISO 17025	< 10	< 10

* The temperature of samples during transportation while in the custody of the laboratory exceeded the required 8°C. Results may be invalid and should be interpreted with caution.



Analytical Report Number : 19-39535

Project / Site name: PROJECT PITESTI C018 2019

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and topsoil/loam soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1212704	P1	None Supplied	0.3	Brown clay and loam with vegetation and gravel
1212705	P1	None Supplied	0.6	Brown clay with vegetation.
1212706	P2	None Supplied	0.3	Brown clay and sand with gravel and vegetation.
1212707	P2	None Supplied	0.5	Brown clay and sand with gravel and vegetation.
1212708	P3	None Supplied	0.3	Brown loam and clay with vegetation and gravel
1212709	P3	None Supplied	0.5	Brown clay and sand with vegetation and gravel
1212710	P4	None Supplied	0.3	Brown clay and sand with gravel and vegetation.
1212711	P4	None Supplied	0.6	Brown clay and sand with vegetation and gravel
1212712	P5	None Supplied	0.3	Brown clay and sand with vegetation and gravel
1212713	P5	None Supplied	0.6	Brown clay and sand with vegetation.
1212714	P6	None Supplied	0.3	Brown clay with vegetation.
1212715	P6	None Supplied	0.6	Brown clay and sand with vegetation and gravel
1212716	P8	None Supplied	0.3	Brown clay and sand with gravel and vegetation.
1212717	P8	None Supplied	0.5	Brown clay and sand with gravel.
1212718	P9	None Supplied	0.3	Brown loam and sand with vegetation and gravel.
1212719	P9	None Supplied	0.6	Brown loam and sand with vegetation and gravel.
1212720	P10	None Supplied	0.3	Brown clay and sand with vegetation and gravel
1212721	P10	None Supplied	0.5	Brown clay and sand with vegetation and gravel
1212722	P11	None Supplied	0.3	Brown clay and sand with vegetation and gravel
1212723	P11	None Supplied	0.6	Brown clay and sand with vegetation and gravel
1212724	P12	None Supplied	0.3	Brown sand with gravel.
1212725	P12	None Supplied	0.6	Brown sand with gravel and vegetation.
1212726	P13	None Supplied	0.3	Brown clay and sand with gravel.
1212727	P13	None Supplied	0.5	Brown clay and sand with gravel and vegetation.
1212728	P14	None Supplied	0.3	Brown sand with vegetation and gravel
1212729	P14	None Supplied	0.6	Brown sand with gravel and vegetation.



Analytical Report Number : 19-39535

Project / Site name: PROJECT PITESTI C018 2019

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	ISO 17025
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	ISO 17025
Total BTEX in soil (Poland)	Determination of BTEX in soil by headspace GC	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	ISO 17025
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	ISO 17025
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.