

CERTIFICATE OF ANALYSIS

Work Order : **EW1800650**
Client : **WOLLONGONG CITY COUNCIL**
Contact : MR WAYDE PETERSON
Address : 41 BURELLI STREET
 WOLLONGONG NSW, AUSTRALIA 2500

Telephone : +61 02 4227 7111
Project : Whytes Gully Stage 3 Bores Annual
Order number : 3071587
C-O-C number : ----
Sampler : Robert DaLio
Site : ----
Quote number : Whytes Gully Annual
No. of samples received : 17
No. of samples analysed : 17

Page : 1 of 19
Laboratory : Environmental Division NSW South Coast
Contact : Glenn Davies
Address : 1/19 Ralph Black Dr, North Wollongong 2500
 4/13 Geary Pl, North Nowra 2541
 Australia NSW
Telephone : 02 42253125
Date Samples Received : 19-Feb-2018 14:00
Date Analysis Commenced : 19-Feb-2018
Issue Date : 28-Feb-2018 09:03



Accreditation No. 825
 Accredited for compliance with
 ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Ankit Joshi	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Glenn Davies	Environmental Services Representative	Laboratory - Wollongong, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW
Sanjeshni Jyoti	Senior Chemist Volatiles	Sydney Organics, Smithfield, NSW



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GMW102 (Point 9)	GMW103 (Point 10)	GMW104 (Point 11)	GMW105 (Point 12)	GMW106 (Point 13)
Client sampling date / time				19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	
Compound	CAS Number	LOR	Unit	EW1800650-001	EW1800650-002	EW1800650-003	EW1800650-004	EW1800650-005	
				Result	Result	Result	Result	Result	
EG020T: Total Metals by ICP-MS									
Aluminium	7429-90-5	0.01	mg/L	----	5.62	12.5	----	----	
Arsenic	7440-38-2	0.001	mg/L	----	<0.001	<0.001	----	----	
Barium	7440-39-3	0.001	mg/L	----	0.041	0.044	----	----	
Cadmium	7440-43-9	0.0001	mg/L	----	<0.0001	<0.0001	----	----	
Cobalt	7440-48-4	0.001	mg/L	----	0.010	0.007	----	----	
Chromium	7440-47-3	0.001	mg/L	----	0.009	0.009	----	----	
Copper	7440-50-8	0.001	mg/L	----	0.016	0.016	----	----	
Manganese	7439-96-5	0.001	mg/L	----	0.452	0.470	----	----	
Lead	7439-92-1	0.001	mg/L	----	0.014	0.008	----	----	
Zinc	7440-66-6	0.005	mg/L	----	0.035	0.045	----	----	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	----	<0.0001	<0.0001	----	----	
EG050T: Total Hexavalent Chromium									
Hexavalent Chromium	18540-29-9	0.01	mg/L	----	<0.01	<0.01	----	----	
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L	----	0.4	0.7	----	----	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	----	<0.01	<0.01	----	----	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	----	0.10	0.02	----	----	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	----	0.10	0.02	----	----	
EN67 PK: Field Tests									
Field Observations	----	0.01	--	DRY	----	----	DRY	DRY	
EP035G: Total Phenol by Discrete Analyser									
Phenols (Total)	----	0.05	mg/L	----	<0.05	<0.05	----	----	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.5	µg/L	----	<0.5	<0.5	----	----	
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	----	<0.5	<0.5	----	----	
beta-BHC	319-85-7	0.5	µg/L	----	<0.5	<0.5	----	----	
gamma-BHC	58-89-9	0.5	µg/L	----	<0.5	<0.5	----	----	
delta-BHC	319-86-8	0.5	µg/L	----	<0.5	<0.5	----	----	
Heptachlor	76-44-8	0.5	µg/L	----	<0.5	<0.5	----	----	



Analytical Results

Sub-Matrix: WATER
 (Matrix: WATER)

Client sample ID

				GMW102 (Point 9)	GMW103 (Point 10)	GMW104 (Point 11)	GMW105 (Point 12)	GMW106 (Point 13)
Client sampling date / time				19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00
Compound	CAS Number	LOR	Unit	EW1800650-001	EW1800650-002	EW1800650-003	EW1800650-004	EW1800650-005
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Aldrin	309-00-2	0.5	µg/L	----	<0.5	<0.5	----	----
Heptachlor epoxide	1024-57-3	0.5	µg/L	----	<0.5	<0.5	----	----
trans-Chlordane	5103-74-2	0.5	µg/L	----	<0.5	<0.5	----	----
alpha-Endosulfan	959-98-8	0.5	µg/L	----	<0.5	<0.5	----	----
cis-Chlordane	5103-71-9	0.5	µg/L	----	<0.5	<0.5	----	----
Dieldrin	60-57-1	0.5	µg/L	----	<0.5	<0.5	----	----
4,4'-DDE	72-55-9	0.5	µg/L	----	<0.5	<0.5	----	----
Endrin	72-20-8	0.5	µg/L	----	<0.5	<0.5	----	----
beta-Endosulfan	33213-65-9	0.5	µg/L	----	<0.5	<0.5	----	----
4,4'-DDD	72-54-8	0.5	µg/L	----	<0.5	<0.5	----	----
Endrin aldehyde	7421-93-4	0.5	µg/L	----	<0.5	<0.5	----	----
Endosulfan sulfate	1031-07-8	0.5	µg/L	----	<0.5	<0.5	----	----
4,4'-DDT	50-29-3	2.0	µg/L	----	<2.0	<2.0	----	----
Endrin ketone	53494-70-5	0.5	µg/L	----	<0.5	<0.5	----	----
Methoxychlor	72-43-5	2.0	µg/L	----	<2.0	<2.0	----	----
^ Total Chlordane (sum)	----	0.5	µg/L	----	<0.5	<0.5	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.5	µg/L	----	<0.5	<0.5	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	µg/L	----	<0.5	<0.5	----	----
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.5	µg/L	----	<0.5	<0.5	----	----
Demeton-S-methyl	919-86-8	0.5	µg/L	----	<0.5	<0.5	----	----
Monocrotophos	6923-22-4	2.0	µg/L	----	<2.0	<2.0	----	----
Dimethoate	60-51-5	0.5	µg/L	----	<0.5	<0.5	----	----
Diazinon	333-41-5	0.5	µg/L	----	<0.5	<0.5	----	----
Chlorpyrifos-methyl	5598-13-0	0.5	µg/L	----	<0.5	<0.5	----	----
Parathion-methyl	298-00-0	2.0	µg/L	----	<2.0	<2.0	----	----
Malathion	121-75-5	0.5	µg/L	----	<0.5	<0.5	----	----
Fenthion	55-38-9	0.5	µg/L	----	<0.5	<0.5	----	----
Chlorpyrifos	2921-88-2	0.5	µg/L	----	<0.5	<0.5	----	----
Parathion	56-38-2	2.0	µg/L	----	<2.0	<2.0	----	----
Pirimphos-ethyl	23505-41-1	0.5	µg/L	----	<0.5	<0.5	----	----
Chlorfenvinphos	470-90-6	0.5	µg/L	----	<0.5	<0.5	----	----
Bromophos-ethyl	4824-78-6	0.5	µg/L	----	<0.5	<0.5	----	----



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GMW102 (Point 9)	GMW103 (Point 10)	GMW104 (Point 11)	GMW105 (Point 12)	GMW106 (Point 13)
Client sampling date / time				19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	
Compound	CAS Number	LOR	Unit	EW1800650-001	EW1800650-002	EW1800650-003	EW1800650-004	EW1800650-005	
				Result	Result	Result	Result	Result	
EP068B: Organophosphorus Pesticides (OP) - Continued									
Fenamiphos	22224-92-6	0.5	µg/L	----	<0.5	<0.5	----	----	
Prothiofos	34643-46-4	0.5	µg/L	----	<0.5	<0.5	----	----	
Ethion	563-12-2	0.5	µg/L	----	<0.5	<0.5	----	----	
Carbophenothion	786-19-6	0.5	µg/L	----	<0.5	<0.5	----	----	
Azinphos Methyl	86-50-0	0.5	µg/L	----	<0.5	<0.5	----	----	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L	----	<1.0	<1.0	----	----	
Acenaphthylene	208-96-8	1.0	µg/L	----	<1.0	<1.0	----	----	
Acenaphthene	83-32-9	1.0	µg/L	----	<1.0	<1.0	----	----	
Fluorene	86-73-7	1.0	µg/L	----	<1.0	<1.0	----	----	
Phenanthrene	85-01-8	1.0	µg/L	----	<1.0	<1.0	----	----	
Anthracene	120-12-7	1.0	µg/L	----	<1.0	<1.0	----	----	
Fluoranthene	206-44-0	1.0	µg/L	----	<1.0	<1.0	----	----	
Pyrene	129-00-0	1.0	µg/L	----	<1.0	<1.0	----	----	
Benz(a)anthracene	56-55-3	1.0	µg/L	----	<1.0	<1.0	----	----	
Chrysene	218-01-9	1.0	µg/L	----	<1.0	<1.0	----	----	
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L	----	<1.0	<1.0	----	----	
Benzo(k)fluoranthene	207-08-9	1.0	µg/L	----	<1.0	<1.0	----	----	
Benzo(a)pyrene	50-32-8	0.5	µg/L	----	<0.5	<0.5	----	----	
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L	----	<1.0	<1.0	----	----	
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L	----	<1.0	<1.0	----	----	
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L	----	<1.0	<1.0	----	----	
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	----	<0.5	<0.5	----	----	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L	----	<0.5	<0.5	----	----	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L	----	<20	<20	----	----	
C10 - C14 Fraction	----	50	µg/L	----	<50	<50	----	----	
C15 - C28 Fraction	----	100	µg/L	----	<100	<100	----	----	
C29 - C36 Fraction	----	50	µg/L	----	<50	<50	----	----	
^ C10 - C36 Fraction (sum)	----	50	µg/L	----	<50	<50	----	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L	----	<20	<20	----	----	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	----	<20	<20	----	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GMW102 (Point 9)	GMW103 (Point 10)	GMW104 (Point 11)	GMW105 (Point 12)	GMW106 (Point 13)
Client sampling date / time					19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00
Compound	CAS Number	LOR	Unit		EW1800650-001	EW1800650-002	EW1800650-003	EW1800650-004	EW1800650-005
				Result	Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
>C10 - C16 Fraction	----	100	µg/L	----	<100	<100	<100	----	----
>C16 - C34 Fraction	----	100	µg/L	----	<100	<100	<100	----	----
>C34 - C40 Fraction	----	100	µg/L	----	<100	<100	<100	----	----
[^] >C10 - C40 Fraction (sum)	----	100	µg/L	----	<100	<100	<100	----	----
[^] >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	----	<100	<100	<100	----	----
EP080: BTEXN									
Benzene	71-43-2	1	µg/L	----	<1	<1	<1	----	----
Toluene	108-88-3	2	µg/L	----	<2	<2	<2	----	----
Ethylbenzene	100-41-4	2	µg/L	----	<2	<2	<2	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	----	<2	<2	<2	----	----
ortho-Xylene	95-47-6	2	µg/L	----	<2	<2	<2	----	----
[^] Total Xylenes	----	2	µg/L	----	<2	<2	<2	----	----
[^] Sum of BTEX	----	1	µg/L	----	<1	<1	<1	----	----
Naphthalene	91-20-3	5	µg/L	----	<5	<5	<5	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.5	%	----	75.1	88.0	88.0	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.5	%	----	74.6	91.1	91.1	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%	----	23.1	20.6	20.6	----	----
2-Chlorophenol-D4	93951-73-6	1.0	%	----	65.1	65.0	65.0	----	----
2,4,6-Tribromophenol	118-79-6	1.0	%	----	50.6	57.8	57.8	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%	----	85.8	97.6	97.6	----	----
Anthracene-d10	1719-06-8	1.0	%	----	89.5	86.4	86.4	----	----
4-Terphenyl-d14	1718-51-0	1.0	%	----	77.7	95.6	95.6	----	----
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	2	%	----	108	98.7	98.7	----	----
Toluene-D8	2037-26-5	2	%	----	99.5	81.8	81.8	----	----
4-Bromofluorobenzene	460-00-4	2	%	----	97.4	88.8	88.8	----	----



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID				
				GMW108S (Point 14)	GMW108D (Point 15)	GMW109S (Point 16)	GMW109D (Point 19)	GMW110 (Point 17)
Client sampling date / time				19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00
Compound	CAS Number	LOR	Unit	EW1800650-006	EW1800650-007	EW1800650-008	EW1800650-009	EW1800650-010
				Result	Result	Result	Result	Result
EG020T: Total Metals by ICP-MS								
Aluminium	7429-90-5	0.01	mg/L	19.9	0.39	6.02	0.21	3.43
Arsenic	7440-38-2	0.001	mg/L	0.002	<0.001	0.004	<0.001	<0.001
Barium	7440-39-3	0.001	mg/L	0.231	0.022	0.268	0.139	0.015
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0002	<0.0001	<0.0001
Cobalt	7440-48-4	0.001	mg/L	0.012	<0.001	0.030	<0.001	0.003
Chromium	7440-47-3	0.001	mg/L	0.017	0.001	0.008	<0.001	0.003
Copper	7440-50-8	0.001	mg/L	0.042	0.002	0.025	0.002	0.005
Manganese	7439-96-5	0.001	mg/L	0.385	0.021	3.97	0.832	0.151
Lead	7439-92-1	0.001	mg/L	0.014	<0.001	0.012	0.001	0.002
Zinc	7440-66-6	0.005	mg/L	0.056	0.010	0.165	0.014	0.018
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
EG050T: Total Hexavalent Chromium								
Hexavalent Chromium	18540-29-9	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EK040P: Fluoride by PC Titrator								
Fluoride	16984-48-8	0.1	mg/L	0.5	0.6	0.1	0.4	0.4
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.01	mg/L	0.01	0.17	0.03	0.11	0.52
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Nitrite + Nitrate as N	----	0.01	mg/L	0.01	0.17	0.03	0.11	0.52
EP035G: Total Phenol by Discrete Analyser								
Phenols (Total)	----	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
beta-BHC	319-85-7	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
gamma-BHC	58-89-9	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
delta-BHC	319-86-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor	76-44-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Aldrin	309-00-2	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor epoxide	1024-57-3	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GMW108S (Point 14)	GMW108D (Point 15)	GMW109S (Point 16)	GMW109D (Point 19)	GMW110 (Point 17)
Client sampling date / time				19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	
Compound	CAS Number	LOR	Unit	EW1800650-006	EW1800650-007	EW1800650-008	EW1800650-009	EW1800650-010	
				Result	Result	Result	Result	Result	
EP068A: Organochlorine Pesticides (OC) - Continued									
trans-Chlordane	5103-74-2	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
alpha-Endosulfan	959-98-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Dieldrin	60-57-1	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
4,4'-DDE	72-55-9	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Endrin	72-20-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
beta-Endosulfan	33213-65-9	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
4,4'-DDD	72-54-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Endrin aldehyde	7421-93-4	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Endosulfan sulfate	1031-07-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
4,4'-DDT	50-29-3	2.0	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	
Endrin ketone	53494-70-5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Methoxychlor	72-43-5	2.0	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	
^ Total Chlordane (sum)	----	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Demeton-S-methyl	919-86-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Monocrotophos	6923-22-4	2.0	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	
Dimethoate	60-51-5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Diazinon	333-41-5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Chlorpyrifos-methyl	5598-13-0	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Parathion-methyl	298-00-0	2.0	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	
Malathion	121-75-5	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Fenthion	55-38-9	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Chlorpyrifos	2921-88-2	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Parathion	56-38-2	2.0	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	
Pirimphos-ethyl	23505-41-1	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Chlorfenvinphos	470-90-6	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Bromophos-ethyl	4824-78-6	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Fenamiphos	22224-92-6	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Prothiofos	34643-46-4	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GMW108S (Point 14)	GMW108D (Point 15)	GMW109S (Point 16)	GMW109D (Point 19)	GMW110 (Point 17)
Client sampling date / time				19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	
Compound	CAS Number	LOR	Unit	EW1800650-006	EW1800650-007	EW1800650-008	EW1800650-009	EW1800650-010	
				Result	Result	Result	Result	Result	
EP068B: Organophosphorus Pesticides (OP) - Continued									
Ethion	563-12-2	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Carbophenothion	786-19-6	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Azinphos Methyl	86-50-0	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Acenaphthylene	208-96-8	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Acenaphthene	83-32-9	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Fluorene	86-73-7	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Phenanthrene	85-01-8	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Anthracene	120-12-7	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Fluoranthene	206-44-0	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Pyrene	129-00-0	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Benz(a)anthracene	56-55-3	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Chrysene	218-01-9	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Benzo(k)fluoranthene	207-08-9	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L	<20	<20	<20	<20	<20	
C10 - C14 Fraction	----	50	µg/L	<50	<50	<50	<50	<50	
C15 - C28 Fraction	----	100	µg/L	<100	<100	<100	<100	<100	
C29 - C36 Fraction	----	50	µg/L	<50	<50	<50	<50	<50	
^ C10 - C36 Fraction (sum)	----	50	µg/L	<50	<50	<50	<50	<50	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	<20	<20	<20	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	<20	<20	<20	<20	
>C10 - C16 Fraction	----	100	µg/L	<100	<100	<100	<100	<100	
>C16 - C34 Fraction	----	100	µg/L	<100	<100	<100	<100	<100	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GMW108S (Point 14)	GMW108D (Point 15)	GMW109S (Point 16)	GMW109D (Point 19)	GMW110 (Point 17)
Client sampling date / time				19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	
Compound	CAS Number	LOR	Unit	EW1800650-006	EW1800650-007	EW1800650-008	EW1800650-009	EW1800650-010	
				Result	Result	Result	Result	Result	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
>C34 - C40 Fraction	----	100	µg/L	<100	<100	<100	<100	<100	
^ >C10 - C40 Fraction (sum)	----	100	µg/L	<100	<100	<100	<100	<100	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	<100	<100	<100	<100	<100	
EP080: BTEXN									
Benzene	71-43-2	1	µg/L	<1	<1	<1	<1	<1	
Toluene	108-88-3	2	µg/L	<2	<2	<2	<2	<2	
Ethylbenzene	100-41-4	2	µg/L	<2	<2	<2	<2	<2	
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	<2	<2	<2	
ortho-Xylene	95-47-6	2	µg/L	<2	<2	<2	<2	<2	
^ Total Xylenes	----	2	µg/L	<2	<2	<2	<2	<2	
^ Sum of BTEX	----	1	µg/L	<1	<1	<1	<1	<1	
Naphthalene	91-20-3	5	µg/L	<5	<5	<5	<5	<5	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.5	%	69.3	81.5	79.6	79.7	92.1	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.5	%	66.1	68.7	80.8	66.8	86.3	
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%	24.2	26.0	22.1	23.7	23.1	
2-Chlorophenol-D4	93951-73-6	1.0	%	62.7	68.5	66.8	61.7	53.0	
2,4,6-Tribromophenol	118-79-6	1.0	%	50.1	51.0	57.4	44.5	59.3	
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%	81.1	82.9	84.7	80.7	93.6	
Anthracene-d10	1719-06-8	1.0	%	88.5	95.1	96.9	92.0	90.0	
4-Terphenyl-d14	1718-51-0	1.0	%	75.7	88.0	82.4	84.1	96.0	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	2	%	116	116	106	114	108	
Toluene-D8	2037-26-5	2	%	103	108	104	99.9	94.5	
4-Bromofluorobenzene	460-00-4	2	%	105	105	105	102	94.3	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GMW111 (Point 18)	GABH01 (Point 2)	GABH02 (Point 5)	GABH03 (Point 6)	GABH06S (Point 7)
Client sampling date / time				19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	
Compound	CAS Number	LOR	Unit	EW1800650-011	EW1800650-012	EW1800650-013	EW1800650-014	EW1800650-015	
				Result	Result	Result	Result	Result	
EG020T: Total Metals by ICP-MS									
Aluminium	7429-90-5	0.01	mg/L	4.19	----	4.09	----	----	
Arsenic	7440-38-2	0.001	mg/L	<0.001	----	<0.001	----	----	
Barium	7440-39-3	0.001	mg/L	0.034	----	0.015	----	----	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	----	<0.0001	----	----	
Cobalt	7440-48-4	0.001	mg/L	0.004	----	<0.001	----	----	
Chromium	7440-47-3	0.001	mg/L	0.002	----	0.004	----	----	
Copper	7440-50-8	0.001	mg/L	0.008	----	0.008	----	----	
Manganese	7439-96-5	0.001	mg/L	0.303	----	0.070	----	----	
Lead	7439-92-1	0.001	mg/L	0.004	----	0.004	----	----	
Zinc	7440-66-6	0.005	mg/L	0.022	----	0.027	----	----	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	----	<0.0001	----	----	
EG050T: Total Hexavalent Chromium									
Hexavalent Chromium	18540-29-9	0.01	mg/L	<0.01	----	<0.01	----	----	
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L	0.4	----	0.5	----	----	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	----	<0.01	----	----	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	0.02	----	0.02	----	----	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	0.02	----	0.02	----	----	
EN67 PK: Field Tests									
Field Observations	----	0.01	--	----	DESTROYED	----	DESTROYED	DESTROYED	
EP035G: Total Phenol by Discrete Analyser									
Phenols (Total)	----	0.05	mg/L	<0.05	----	<0.05	----	----	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.5	µg/L	<0.5	----	<0.5	----	----	
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	<0.5	----	<0.5	----	----	
beta-BHC	319-85-7	0.5	µg/L	<0.5	----	<0.5	----	----	
gamma-BHC	58-89-9	0.5	µg/L	<0.5	----	<0.5	----	----	
delta-BHC	319-86-8	0.5	µg/L	<0.5	----	<0.5	----	----	
Heptachlor	76-44-8	0.5	µg/L	<0.5	----	<0.5	----	----	



Analytical Results

Sub-Matrix: WATER
 (Matrix: WATER)

Client sample ID

				GMW111 (Point 18)	GABH01 (Point 2)	GABH02 (Point 5)	GABH03 (Point 6)	GABH06S (Point 7)
Client sampling date / time				19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00
Compound	CAS Number	LOR	Unit	EW1800650-011	EW1800650-012	EW1800650-013	EW1800650-014	EW1800650-015
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Aldrin	309-00-2	0.5	µg/L	<0.5	----	<0.5	----	----
Heptachlor epoxide	1024-57-3	0.5	µg/L	<0.5	----	<0.5	----	----
trans-Chlordane	5103-74-2	0.5	µg/L	<0.5	----	<0.5	----	----
alpha-Endosulfan	959-98-8	0.5	µg/L	<0.5	----	<0.5	----	----
cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	----	<0.5	----	----
Dieldrin	60-57-1	0.5	µg/L	<0.5	----	<0.5	----	----
4,4'-DDE	72-55-9	0.5	µg/L	<0.5	----	<0.5	----	----
Endrin	72-20-8	0.5	µg/L	<0.5	----	<0.5	----	----
beta-Endosulfan	33213-65-9	0.5	µg/L	<0.5	----	<0.5	----	----
4,4'-DDD	72-54-8	0.5	µg/L	<0.5	----	<0.5	----	----
Endrin aldehyde	7421-93-4	0.5	µg/L	<0.5	----	<0.5	----	----
Endosulfan sulfate	1031-07-8	0.5	µg/L	<0.5	----	<0.5	----	----
4,4'-DDT	50-29-3	2.0	µg/L	<2.0	----	<2.0	----	----
Endrin ketone	53494-70-5	0.5	µg/L	<0.5	----	<0.5	----	----
Methoxychlor	72-43-5	2.0	µg/L	<2.0	----	<2.0	----	----
^ Total Chlordane (sum)	----	0.5	µg/L	<0.5	----	<0.5	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.5	µg/L	<0.5	----	<0.5	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	µg/L	<0.5	----	<0.5	----	----
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.5	µg/L	<0.5	----	<0.5	----	----
Demeton-S-methyl	919-86-8	0.5	µg/L	<0.5	----	<0.5	----	----
Monocrotophos	6923-22-4	2.0	µg/L	<2.0	----	<2.0	----	----
Dimethoate	60-51-5	0.5	µg/L	<0.5	----	<0.5	----	----
Diazinon	333-41-5	0.5	µg/L	<0.5	----	<0.5	----	----
Chlorpyrifos-methyl	5598-13-0	0.5	µg/L	<0.5	----	<0.5	----	----
Parathion-methyl	298-00-0	2.0	µg/L	<2.0	----	<2.0	----	----
Malathion	121-75-5	0.5	µg/L	<0.5	----	<0.5	----	----
Fenthion	55-38-9	0.5	µg/L	<0.5	----	<0.5	----	----
Chlorpyrifos	2921-88-2	0.5	µg/L	<0.5	----	<0.5	----	----
Parathion	56-38-2	2.0	µg/L	<2.0	----	<2.0	----	----
Pirimphos-ethyl	23505-41-1	0.5	µg/L	<0.5	----	<0.5	----	----
Chlorfenvinphos	470-90-6	0.5	µg/L	<0.5	----	<0.5	----	----
Bromophos-ethyl	4824-78-6	0.5	µg/L	<0.5	----	<0.5	----	----



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GMW111 (Point 18)	GABH01 (Point 2)	GABH02 (Point 5)	GABH03 (Point 6)	GABH06S (Point 7)
Client sampling date / time				19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	
Compound	CAS Number	LOR	Unit	EW1800650-011	EW1800650-012	EW1800650-013	EW1800650-014	EW1800650-015	
				Result	Result	Result	Result	Result	
EP068B: Organophosphorus Pesticides (OP) - Continued									
Fenamiphos	22224-92-6	0.5	µg/L	<0.5	----	<0.5	----	----	
Prothiofos	34643-46-4	0.5	µg/L	<0.5	----	<0.5	----	----	
Ethion	563-12-2	0.5	µg/L	<0.5	----	<0.5	----	----	
Carbophenothion	786-19-6	0.5	µg/L	<0.5	----	<0.5	----	----	
Azinphos Methyl	86-50-0	0.5	µg/L	<0.5	----	<0.5	----	----	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L	<1.0	----	<1.0	----	----	
Acenaphthylene	208-96-8	1.0	µg/L	<1.0	----	<1.0	----	----	
Acenaphthene	83-32-9	1.0	µg/L	<1.0	----	<1.0	----	----	
Fluorene	86-73-7	1.0	µg/L	<1.0	----	<1.0	----	----	
Phenanthrene	85-01-8	1.0	µg/L	<1.0	----	<1.0	----	----	
Anthracene	120-12-7	1.0	µg/L	<1.0	----	<1.0	----	----	
Fluoranthene	206-44-0	1.0	µg/L	<1.0	----	<1.0	----	----	
Pyrene	129-00-0	1.0	µg/L	<1.0	----	<1.0	----	----	
Benz(a)anthracene	56-55-3	1.0	µg/L	<1.0	----	<1.0	----	----	
Chrysene	218-01-9	1.0	µg/L	<1.0	----	<1.0	----	----	
Benzo(b+)fluoranthene	205-99-2 205-82-3	1.0	µg/L	<1.0	----	<1.0	----	----	
Benzo(k)fluoranthene	207-08-9	1.0	µg/L	<1.0	----	<1.0	----	----	
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	----	<0.5	----	----	
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L	<1.0	----	<1.0	----	----	
Dibenz(a,h)anthracene	53-70-3	1.0	µg/L	<1.0	----	<1.0	----	----	
Benzo(g,h,i)perylene	191-24-2	1.0	µg/L	<1.0	----	<1.0	----	----	
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	----	<0.5	----	----	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L	<0.5	----	<0.5	----	----	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L	<20	----	<20	----	----	
C10 - C14 Fraction	----	50	µg/L	<50	----	<50	----	----	
C15 - C28 Fraction	----	100	µg/L	<100	----	<100	----	----	
C29 - C36 Fraction	----	50	µg/L	<50	----	<50	----	----	
^ C10 - C36 Fraction (sum)	----	50	µg/L	<50	----	<50	----	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L	<20	----	<20	----	----	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	----	<20	----	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GMW111 (Point 18)	GABH01 (Point 2)	GABH02 (Point 5)	GABH03 (Point 6)	GABH06S (Point 7)
Client sampling date / time				19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	19-Feb-2018 00:00	
Compound	CAS Number	LOR	Unit	EW1800650-011	EW1800650-012	EW1800650-013	EW1800650-014	EW1800650-015	
				Result	Result	Result	Result	Result	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
>C10 - C16 Fraction	----	100	µg/L	<100	----	<100	----	----	
>C16 - C34 Fraction	----	100	µg/L	<100	----	<100	----	----	
>C34 - C40 Fraction	----	100	µg/L	<100	----	<100	----	----	
^ >C10 - C40 Fraction (sum)	----	100	µg/L	<100	----	<100	----	----	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	<100	----	<100	----	----	
EP080: BTEXN									
Benzene	71-43-2	1	µg/L	<1	----	<1	----	----	
Toluene	108-88-3	2	µg/L	<2	----	<2	----	----	
Ethylbenzene	100-41-4	2	µg/L	<2	----	<2	----	----	
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	----	<2	----	----	
ortho-Xylene	95-47-6	2	µg/L	<2	----	<2	----	----	
^ Total Xylenes	----	2	µg/L	<2	----	<2	----	----	
^ Sum of BTEX	----	1	µg/L	<1	----	<1	----	----	
Naphthalene	91-20-3	5	µg/L	<5	----	<5	----	----	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.5	%	73.6	----	82.4	----	----	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.5	%	69.0	----	85.0	----	----	
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%	23.2	----	27.9	----	----	
2-Chlorophenol-D4	93951-73-6	1.0	%	58.2	----	51.6	----	----	
2,4,6-Tribromophenol	118-79-6	1.0	%	47.6	----	58.3	----	----	
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%	76.3	----	97.2	----	----	
Anthracene-d10	1719-06-8	1.0	%	61.5	----	90.8	----	----	
4-Terphenyl-d14	1718-51-0	1.0	%	74.1	----	91.0	----	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	2	%	108	----	107	----	----	
Toluene-D8	2037-26-5	2	%	95.1	----	98.2	----	----	
4-Bromofluorobenzene	460-00-4	2	%	94.8	----	97.3	----	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GABH06D (Point 8)	BH6 (Point 20)	----	----	----
Client sampling date / time				19-Feb-2018 00:00	19-Feb-2018 00:00	----	----	----	
Compound	CAS Number	LOR	Unit	EW1800650-016	EW1800650-017	-----	-----	-----	
				Result	Result	---	---	---	
EG020T: Total Metals by ICP-MS									
Aluminium	7429-90-5	0.01	mg/L	----	1.12	----	----	----	
Arsenic	7440-38-2	0.001	mg/L	----	0.003	----	----	----	
Barium	7440-39-3	0.001	mg/L	----	0.068	----	----	----	
Cadmium	7440-43-9	0.0001	mg/L	----	<0.0001	----	----	----	
Cobalt	7440-48-4	0.001	mg/L	----	0.015	----	----	----	
Chromium	7440-47-3	0.001	mg/L	----	0.002	----	----	----	
Copper	7440-50-8	0.001	mg/L	----	0.003	----	----	----	
Manganese	7439-96-5	0.001	mg/L	----	2.83	----	----	----	
Lead	7439-92-1	0.001	mg/L	----	0.009	----	----	----	
Zinc	7440-66-6	0.005	mg/L	----	0.010	----	----	----	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	----	<0.0001	----	----	----	
EG050T: Total Hexavalent Chromium									
Hexavalent Chromium	18540-29-9	0.01	mg/L	----	<0.01	----	----	----	
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L	----	0.9	----	----	----	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	----	<0.01	----	----	----	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	----	0.04	----	----	----	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	----	0.04	----	----	----	
EN67 PK: Field Tests									
Field Observations	----	0.01	--	DESTROYED	----	----	----	----	
EP035G: Total Phenol by Discrete Analyser									
Phenols (Total)	----	0.05	mg/L	----	<0.05	----	----	----	
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.5	µg/L	----	<0.5	----	----	----	
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	----	<0.5	----	----	----	
beta-BHC	319-85-7	0.5	µg/L	----	<0.5	----	----	----	
gamma-BHC	58-89-9	0.5	µg/L	----	<0.5	----	----	----	
delta-BHC	319-86-8	0.5	µg/L	----	<0.5	----	----	----	
Heptachlor	76-44-8	0.5	µg/L	----	<0.5	----	----	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GABH06D (Point 8)	BH6 (Point 20)	----	----	----
Client sampling date / time				19-Feb-2018 00:00	19-Feb-2018 00:00	----	----	----	
Compound	CAS Number	LOR	Unit	EW1800650-016	EW1800650-017	-----	-----	-----	
				Result	Result	---	---	---	
EP068A: Organochlorine Pesticides (OC) - Continued									
Aldrin	309-00-2	0.5	µg/L	----	<0.5	----	----	----	
Heptachlor epoxide	1024-57-3	0.5	µg/L	----	<0.5	----	----	----	
trans-Chlordane	5103-74-2	0.5	µg/L	----	<0.5	----	----	----	
alpha-Endosulfan	959-98-8	0.5	µg/L	----	<0.5	----	----	----	
cis-Chlordane	5103-71-9	0.5	µg/L	----	<0.5	----	----	----	
Dieldrin	60-57-1	0.5	µg/L	----	<0.5	----	----	----	
4,4'-DDE	72-55-9	0.5	µg/L	----	<0.5	----	----	----	
Endrin	72-20-8	0.5	µg/L	----	<0.5	----	----	----	
beta-Endosulfan	33213-65-9	0.5	µg/L	----	<0.5	----	----	----	
4,4'-DDD	72-54-8	0.5	µg/L	----	<0.5	----	----	----	
Endrin aldehyde	7421-93-4	0.5	µg/L	----	<0.5	----	----	----	
Endosulfan sulfate	1031-07-8	0.5	µg/L	----	<0.5	----	----	----	
4,4'-DDT	50-29-3	2.0	µg/L	----	<2.0	----	----	----	
Endrin ketone	53494-70-5	0.5	µg/L	----	<0.5	----	----	----	
Methoxychlor	72-43-5	2.0	µg/L	----	<2.0	----	----	----	
^ Total Chlordane (sum)	----	0.5	µg/L	----	<0.5	----	----	----	
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.5	µg/L	----	<0.5	----	----	----	
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	µg/L	----	<0.5	----	----	----	
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.5	µg/L	----	<0.5	----	----	----	
Demeton-S-methyl	919-86-8	0.5	µg/L	----	<0.5	----	----	----	
Monocrotophos	6923-22-4	2.0	µg/L	----	<2.0	----	----	----	
Dimethoate	60-51-5	0.5	µg/L	----	<0.5	----	----	----	
Diazinon	333-41-5	0.5	µg/L	----	<0.5	----	----	----	
Chlorpyrifos-methyl	5598-13-0	0.5	µg/L	----	<0.5	----	----	----	
Parathion-methyl	298-00-0	2.0	µg/L	----	<2.0	----	----	----	
Malathion	121-75-5	0.5	µg/L	----	<0.5	----	----	----	
Fenthion	55-38-9	0.5	µg/L	----	<0.5	----	----	----	
Chlorpyrifos	2921-88-2	0.5	µg/L	----	<0.5	----	----	----	
Parathion	56-38-2	2.0	µg/L	----	<2.0	----	----	----	
Pirimphos-ethyl	23505-41-1	0.5	µg/L	----	<0.5	----	----	----	
Chlorfenvinphos	470-90-6	0.5	µg/L	----	<0.5	----	----	----	
Bromophos-ethyl	4824-78-6	0.5	µg/L	----	<0.5	----	----	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GABH06D (Point 8)	BH6 (Point 20)	----	----	----
Client sampling date / time				19-Feb-2018 00:00	19-Feb-2018 00:00	----	----	----	
Compound	CAS Number	LOR	Unit	EW1800650-016	EW1800650-017	-----	-----	-----	
				Result	Result	---	---	---	
EP068B: Organophosphorus Pesticides (OP) - Continued									
Fenamiphos	22224-92-6	0.5	µg/L	----	<0.5	----	----	----	
Prothiofos	34643-46-4	0.5	µg/L	----	<0.5	----	----	----	
Ethion	563-12-2	0.5	µg/L	----	<0.5	----	----	----	
Carbophenothion	786-19-6	0.5	µg/L	----	<0.5	----	----	----	
Azinphos Methyl	86-50-0	0.5	µg/L	----	<0.5	----	----	----	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L	----	<1.0	----	----	----	
Acenaphthylene	208-96-8	1.0	µg/L	----	<1.0	----	----	----	
Acenaphthene	83-32-9	1.0	µg/L	----	<1.0	----	----	----	
Fluorene	86-73-7	1.0	µg/L	----	<1.0	----	----	----	
Phenanthrene	85-01-8	1.0	µg/L	----	<1.0	----	----	----	
Anthracene	120-12-7	1.0	µg/L	----	<1.0	----	----	----	
Fluoranthene	206-44-0	1.0	µg/L	----	<1.0	----	----	----	
Pyrene	129-00-0	1.0	µg/L	----	<1.0	----	----	----	
Benz(a)anthracene	56-55-3	1.0	µg/L	----	<1.0	----	----	----	
Chrysene	218-01-9	1.0	µg/L	----	<1.0	----	----	----	
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L	----	<1.0	----	----	----	
Benzo(k)fluoranthene	207-08-9	1.0	µg/L	----	<1.0	----	----	----	
Benzo(a)pyrene	50-32-8	0.5	µg/L	----	<0.5	----	----	----	
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L	----	<1.0	----	----	----	
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L	----	<1.0	----	----	----	
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L	----	<1.0	----	----	----	
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	----	<0.5	----	----	----	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L	----	<0.5	----	----	----	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L	----	<20	----	----	----	
C10 - C14 Fraction	----	50	µg/L	----	<50	----	----	----	
C15 - C28 Fraction	----	100	µg/L	----	<100	----	----	----	
C29 - C36 Fraction	----	50	µg/L	----	<50	----	----	----	
^ C10 - C36 Fraction (sum)	----	50	µg/L	----	<50	----	----	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L	----	<20	----	----	----	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	----	<20	----	----	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	GABH06D (Point 8)	BH6 (Point 20)	----	----	----
Client sampling date / time				19-Feb-2018 00:00	19-Feb-2018 00:00	----	----	----	
Compound	CAS Number	LOR	Unit	EW1800650-016	EW1800650-017	-----	-----	-----	
				Result	Result	---	---	---	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
>C10 - C16 Fraction	----	100	µg/L	----	<100	----	----	----	
>C16 - C34 Fraction	----	100	µg/L	----	<100	----	----	----	
>C34 - C40 Fraction	----	100	µg/L	----	<100	----	----	----	
^ >C10 - C40 Fraction (sum)	----	100	µg/L	----	<100	----	----	----	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	----	<100	----	----	----	
EP080: BTEXN									
Benzene	71-43-2	1	µg/L	----	<1	----	----	----	
Toluene	108-88-3	2	µg/L	----	<2	----	----	----	
Ethylbenzene	100-41-4	2	µg/L	----	<2	----	----	----	
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	----	<2	----	----	----	
ortho-Xylene	95-47-6	2	µg/L	----	<2	----	----	----	
^ Total Xylenes	----	2	µg/L	----	<2	----	----	----	
^ Sum of BTEX	----	1	µg/L	----	<1	----	----	----	
Naphthalene	91-20-3	5	µg/L	----	<5	----	----	----	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.5	%	----	82.2	----	----	----	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.5	%	----	79.3	----	----	----	
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%	----	22.0	----	----	----	
2-Chlorophenol-D4	93951-73-6	1.0	%	----	58.0	----	----	----	
2,4,6-Tribromophenol	118-79-6	1.0	%	----	40.6	----	----	----	
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%	----	81.2	----	----	----	
Anthracene-d10	1719-06-8	1.0	%	----	87.2	----	----	----	
4-Terphenyl-d14	1718-51-0	1.0	%	----	78.4	----	----	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	2	%	----	111	----	----	----	
Toluene-D8	2037-26-5	2	%	----	96.3	----	----	----	
4-Bromofluorobenzene	460-00-4	2	%	----	98.2	----	----	----	



Surrogate Control Limits

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	67	111
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	67	111
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	44
2-Chlorophenol-D4	93951-73-6	14	94
2,4,6-Tribromophenol	118-79-6	17	125
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	20	104
Anthracene-d10	1719-06-8	27	113
4-Terphenyl-d14	1718-51-0	32	112
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	71	137
Toluene-D8	2037-26-5	79	131
4-Bromofluorobenzene	460-00-4	70	128