

CERTIFICATE OF ANALYSIS

Work Order : **EW1601846**
Client : **WINGECARRIBEE SHIRE COUNCIL**
Contact : MR Scott McAllan
Address : PO BOX 141
 MOSSVALE NSW
 AUSTRALIA
Telephone : ----
Project : Annual Waters and Methane
Order number : ----
C-O-C number : ----
Sampler : Glenn Davies, Robert DaLio
Site : ----
Quote number : ----
No. of samples received : 17
No. of samples analysed : 17

Page : 1 of 23
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
Telephone : 02 42253125
Date Samples Received : 11-May-2016 15:24
Date Analysis Commenced : 12-May-2016
Issue Date : 26-May-2016 16:54



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

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
Ashesh Patel	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Celine Conceicao	Senior Spectroscopist	Sydney Inorganics, Smithfield, NSW
Dian Dao		Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Glenn Davies	Environmental Services Representative	Laboratory - Wollongong
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

∅ = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- TDS by method EA-015 may bias high due to the presence of fine particulate matter, which may pass through the prescribed GF/C paper.
- EK055G: It has been noted that Ammonia is greater than TKN on sample 5, however this difference is within the limits of experimental variation.
- Sampling and sample data supplied by ALS Wollongong.
- Sampling completed as per FWI-EN001 Groundwater Sampling.
- Sampling completed as per FWI-EN002 Surface Water Sampling.
- Field tests completed on day of sampling/receipt.
- 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			Point 1	Point 2	Point 3	Point 4	Point 5			
Client sampling date / time		12-May-2016 10:50			12-May-2016 11:15		12-May-2016 11:05		12-May-2016 11:35		12-May-2016 12:20	
Compound	CAS Number	LOR	Unit	EW1601846-001	EW1601846-002	EW1601846-003	EW1601846-004	EW1601846-005				
				Result	Result	Result	Result	Result				
EA005FD: Field pH												
pH	----	0.1	pH Unit	4.9	5.8	----	----	4.3				
EA010FD: Field Conductivity												
Electrical Conductivity (Non Compensated)	----	1	µS/cm	535	1760	----	----	991				
EA015: Total Dissolved Solids dried at 180 ± 5 °C												
Total Dissolved Solids @180°C	----	10	mg/L	436	1200	----	----	658				
EA025: Total Suspended Solids dried at 104 ± 2°C												
Suspended Solids (SS)	----	5	mg/L	----	----	----	----	----				
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA												
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	12	325	----	----	54				
ED093T: Total Major Cations												
Sodium	7440-23-5	1	mg/L	65	207	----	----	200				
Potassium	7440-09-7	1	mg/L	2	52	----	----	18				
EG020T: Total Metals by ICP-MS												
Nickel	7440-02-0	0.001	mg/L	0.078	0.015	----	----	0.032				
Zinc	7440-66-6	0.005	mg/L	0.442	0.040	----	----	0.084				
EK055G: Ammonia as N by Discrete Analyser												
Ammonia as N	7664-41-7	0.01	mg/L	0.08	0.86	----	----	5.04				
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser												
Nitrite + Nitrate as N	----	0.01	mg/L	23.3	0.05	----	----	10.5				
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser												
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	0.9	----	----	4.7				
EN67 PK: Field Tests												
Field Observations	----	0.01	--	----	----	NOT FOUND	DRY	----				
EP005: Total Organic Carbon (TOC)												
Total Organic Carbon	----	1	mg/L	6	10	----	----	4				
EP025FD: Field Dissolved Oxygen												
Dissolved Oxygen	----	0.01	mg/L	----	----	----	----	----				
EP030: Biochemical Oxygen Demand (BOD)												
Biochemical Oxygen Demand	----	2	mg/L	----	----	----	----	----				
EP035G: Total Phenol by Discrete Analyser												
Phenols (Total)	----	0.05	mg/L	<0.05	<0.05	----	----	<0.05				
EP068A: Organochlorine Pesticides (OC)												



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Point 1	Point 2	Point 3	Point 4	Point 5
Client sampling date / time					12-May-2016 10:50	12-May-2016 11:15	12-May-2016 11:05	12-May-2016 11:35	12-May-2016 12:20
Compound	CAS Number	LOR	Unit		EW1601846-001	EW1601846-002	EW1601846-003	EW1601846-004	EW1601846-005
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
alpha-BHC	319-84-6	0.5	µg/L		<0.5	<0.5	----	----	<0.5
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L		<0.5	<0.5	----	----	<0.5
beta-BHC	319-85-7	0.5	µg/L		<0.5	<0.5	----	----	<0.5
gamma-BHC	58-89-9	0.5	µg/L		<0.5	<0.5	----	----	<0.5
delta-BHC	319-86-8	0.5	µg/L		<0.5	<0.5	----	----	<0.5
Heptachlor	76-44-8	0.5	µg/L		<0.5	<0.5	----	----	<0.5
Aldrin	309-00-2	0.5	µg/L		<0.5	<0.5	----	----	<0.5
Heptachlor epoxide	1024-57-3	0.5	µg/L		<0.5	<0.5	----	----	<0.5
trans-Chlordane	5103-74-2	0.5	µg/L		<0.5	<0.5	----	----	<0.5
alpha-Endosulfan	959-98-8	0.5	µg/L		<0.5	<0.5	----	----	<0.5
cis-Chlordane	5103-71-9	0.5	µg/L		<0.5	<0.5	----	----	<0.5
Dieldrin	60-57-1	0.5	µg/L		<0.5	<0.5	----	----	<0.5
4,4'-DDE	72-55-9	0.5	µg/L		<0.5	<0.5	----	----	<0.5
Endrin	72-20-8	0.5	µg/L		<0.5	<0.5	----	----	<0.5
beta-Endosulfan	33213-65-9	0.5	µg/L		<0.5	<0.5	----	----	<0.5
4,4'-DDD	72-54-8	0.5	µg/L		<0.5	<0.5	----	----	<0.5
Endrin aldehyde	7421-93-4	0.5	µg/L		<0.5	<0.5	----	----	<0.5
Endosulfan sulfate	1031-07-8	0.5	µg/L		<0.5	<0.5	----	----	<0.5
4,4'-DDT	50-29-3	2	µg/L		<2.0	<2.0	----	----	<2.0
Endrin ketone	53494-70-5	0.5	µg/L		<0.5	<0.5	----	----	<0.5
Methoxychlor	72-43-5	2	µg/L		<2.0	<2.0	----	----	<2.0
^ Total Chlordane (sum)	----	0.5	µg/L		<0.5	<0.5	----	----	<0.5
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	µg/L		<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
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.5	µg/L		<0.5	<0.5	----	----	<0.5
Demeton-S-methyl	919-86-8	0.5	µg/L		<0.5	<0.5	----	----	<0.5
Monocrotophos	6923-22-4	2	µg/L		<2.0	<2.0	----	----	<2.0
Dimethoate	60-51-5	0.5	µg/L		<0.5	<0.5	----	----	<0.5
Diazinon	333-41-5	0.5	µg/L		<0.5	<0.5	----	----	<0.5
Chlorpyrifos-methyl	5598-13-0	0.5	µg/L		<0.5	<0.5	----	----	<0.5
Parathion-methyl	298-00-0	2	µg/L		<2.0	<2.0	----	----	<2.0
Malathion	121-75-5	0.5	µg/L		<0.5	<0.5	----	----	<0.5
Fenthion	55-38-9	0.5	µg/L		<0.5	<0.5	----	----	<0.5



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Point 1	Point 2	Point 3	Point 4	Point 5
Client sampling date / time					12-May-2016 10:50	12-May-2016 11:15	12-May-2016 11:05	12-May-2016 11:35	12-May-2016 12:20
Compound	CAS Number	LOR	Unit	EW1601846-001	EW1601846-002	EW1601846-003	EW1601846-004	EW1601846-005	
				Result	Result	Result	Result	Result	
EP068B: Organophosphorus Pesticides (OP) - Continued									
Chlorpyrifos	2921-88-2	0.5	µg/L	<0.5	<0.5	----	----	<0.5	
Parathion	56-38-2	2	µg/L	<2.0	<2.0	----	----	<2.0	
Pirimphos-ethyl	23505-41-1	0.5	µg/L	<0.5	<0.5	----	----	<0.5	
Chlorfenvinphos	470-90-6	0.5	µg/L	<0.5	<0.5	----	----	<0.5	
Bromophos-ethyl	4824-78-6	0.5	µg/L	<0.5	<0.5	----	----	<0.5	
Fenamiphos	22224-92-6	0.5	µg/L	<0.5	<0.5	----	----	<0.5	
Prothiofos	34643-46-4	0.5	µg/L	<0.5	<0.5	----	----	<0.5	
Ethion	563-12-2	0.5	µg/L	<0.5	<0.5	----	----	<0.5	
Carbophenothion	786-19-6	0.5	µg/L	<0.5	<0.5	----	----	<0.5	
Azinphos Methyl	86-50-0	0.5	µg/L	<0.5	<0.5	----	----	<0.5	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1	µg/L	<1.0	<1.0	----	----	<1.0	
Acenaphthylene	208-96-8	1	µg/L	<1.0	<1.0	----	----	<1.0	
Acenaphthene	83-32-9	1	µg/L	<1.0	<1.0	----	----	<1.0	
Fluorene	86-73-7	1	µg/L	<1.0	<1.0	----	----	<1.0	
Phenanthrene	85-01-8	1	µg/L	<1.0	<1.0	----	----	<1.0	
Anthracene	120-12-7	1	µg/L	<1.0	<1.0	----	----	<1.0	
Fluoranthene	206-44-0	1	µg/L	<1.0	<1.0	----	----	<1.0	
Pyrene	129-00-0	1	µg/L	<1.0	<1.0	----	----	<1.0	
Benz(a)anthracene	56-55-3	1	µg/L	<1.0	<1.0	----	----	<1.0	
Chrysene	218-01-9	1	µg/L	<1.0	<1.0	----	----	<1.0	
Benzo(b+j)fluoranthene	205-99-2	205-82-3	1	µg/L	<1.0	----	----	<1.0	
Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	<1.0	----	----	<1.0	
Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	----	----	<0.5	
Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	<1.0	----	----	<1.0	
Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	<1.0	----	----	<1.0	
Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	<1.0	----	----	<1.0	
[^] Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	<0.5	----	----	<0.5	
[^] Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L	<0.5	<0.5	----	----	<0.5	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L	<20	<20	----	----	<20	
C10 - C14 Fraction	----	50	µg/L	<50	<50	----	----	<50	
C15 - C28 Fraction	----	100	µg/L	<100	<100	----	----	<100	
C29 - C36 Fraction	----	50	µg/L	<50	<50	----	----	<50	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Point 1	Point 2	Point 3	Point 4	Point 5
Client sampling date / time					12-May-2016 10:50	12-May-2016 11:15	12-May-2016 11:05	12-May-2016 11:35	12-May-2016 12:20
Compound	CAS Number	LOR	Unit		EW1601846-001	EW1601846-002	EW1601846-003	EW1601846-004	EW1601846-005
					Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons - Continued									
^ C10 - C36 Fraction (sum)	----	50	µg/L		<50	<50	----	----	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L		<20	<20	----	----	<20
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L		<20	<20	----	----	<20
>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	1330-20-7	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
FWI-EN/001: Groundwater Sampling - Depth									
Depth	----	0.01	m		4.18	4.70	----	----	7.22
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.5	%		99.9	95.2	----	----	88.7
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.5	%		64.1	67.9	----	----	70.3
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1	%		24.9	26.9	----	----	24.5
2-Chlorophenol-D4	93951-73-6	1	%		52.3	55.1	----	----	50.3
2,4,6-Tribromophenol	118-79-6	1	%		71.8	68.5	----	----	64.3
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1	%		67.7	71.6	----	----	69.5
Anthracene-d10	1719-06-8	1	%		73.1	76.0	----	----	68.7
4-Terphenyl-d14	1718-51-0	1	%		67.3	68.7	----	----	64.0



Analytical Results

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Client sampling date / time					12-May-2016 10:50	12-May-2016 11:15	12-May-2016 11:05	12-May-2016 11:35	12-May-2016 12:20
Compound	CAS Number	LOR	Unit		EW1601846-001	EW1601846-002	EW1601846-003	EW1601846-004	EW1601846-005
					Result	Result	Result	Result	Result
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	2	%		111	110	----	----	108
Toluene-D8	2037-26-5	2	%		106	110	----	----	106
4-Bromofluorobenzene	460-00-4	2	%		118	120	----	----	116



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Point 6	Point 7	Point 8	Point 9	Point 10
Client sampling date / time				12-May-2016 12:15	12-May-2016 12:35	12-May-2016 12:40	12-May-2016 10:45	12-May-2016 10:50	
Compound	CAS Number	LOR	Unit	EW1601846-006	EW1601846-007	EW1601846-008	EW1601846-009	EW1601846-010	
				Result	Result	Result	Result	Result	
EA005FD: Field pH									
pH	----	0.1	pH Unit	----	----	----	6.8	6.7	
EA010FD: Field Conductivity									
Electrical Conductivity (Non Compensated)	----	1	µS/cm	----	----	----	6380	952	
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L	----	----	----	2990	----	
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	5	mg/L	----	----	----	----	9	
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	----	----	----	<1	----	
ED093T: Total Major Cations									
Sodium	7440-23-5	1	mg/L	----	----	----	438	----	
Potassium	7440-09-7	1	mg/L	----	----	----	321	----	
EG020T: Total Metals by ICP-MS									
Nickel	7440-02-0	0.001	mg/L	----	----	----	0.082	----	
Zinc	7440-66-6	0.005	mg/L	----	----	----	0.175	----	
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	----	----	----	321	0.04	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	----	----	----	0.08	----	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	----	----	----	326	----	
EN67 PK: Field Tests									
Field Observations	----	0.01	--	DRY	DRY	DRY	----	----	
EP005: Total Organic Carbon (TOC)									
Total Organic Carbon	----	1	mg/L	----	----	----	202	----	
EP025FD: Field Dissolved Oxygen									
Dissolved Oxygen	----	0.01	mg/L	----	----	----	----	9.44	
EP030: Biochemical Oxygen Demand (BOD)									
Biochemical Oxygen Demand	----	2	mg/L	----	----	----	----	<2	
EP035G: Total Phenol by Discrete Analyser									
Phenols (Total)	----	0.05	mg/L	----	----	----	<0.05	----	
EP068A: Organochlorine Pesticides (OC)									



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Point 6	Point 7	Point 8	Point 9	Point 10
Client sampling date / time					12-May-2016 12:15	12-May-2016 12:35	12-May-2016 12:40	12-May-2016 10:45	12-May-2016 10:50
Compound	CAS Number	LOR	Unit		EW1601846-006	EW1601846-007	EW1601846-008	EW1601846-009	EW1601846-010
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
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	----
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	µg/L	----	----	----	----	<2.0	----
Endrin ketone	53494-70-5	0.5	µg/L	----	----	----	----	<0.5	----
Methoxychlor	72-43-5	2	µg/L	----	----	----	----	<2.0	----
^ Total Chlordane (sum)	----	0.5	µg/L	----	----	----	----	<0.5	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	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	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	µg/L	----	----	----	----	<2.0	----
Malathion	121-75-5	0.5	µg/L	----	----	----	----	<0.5	----
Fenthion	55-38-9	0.5	µg/L	----	----	----	----	<0.5	----



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Point 6	Point 7	Point 8	Point 9	Point 10
Client sampling date / time					12-May-2016 12:15	12-May-2016 12:35	12-May-2016 12:40	12-May-2016 10:45	12-May-2016 10:50
Compound	CAS Number	LOR	Unit		EW1601846-006	EW1601846-007	EW1601846-008	EW1601846-009	EW1601846-010
					Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued									
Chlorpyrifos	2921-88-2	0.5	µg/L	----	----	----	----	<0.5	----
Parathion	56-38-2	2	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	----
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	µg/L	----	----	----	----	3.0	----
Acenaphthylene	208-96-8	1	µg/L	----	----	----	----	<1.0	----
Acenaphthene	83-32-9	1	µg/L	----	----	----	----	<1.0	----
Fluorene	86-73-7	1	µg/L	----	----	----	----	<1.0	----
Phenanthrene	85-01-8	1	µg/L	----	----	----	----	<1.0	----
Anthracene	120-12-7	1	µg/L	----	----	----	----	<1.0	----
Fluoranthene	206-44-0	1	µg/L	----	----	----	----	<1.0	----
Pyrene	129-00-0	1	µg/L	----	----	----	----	<1.0	----
Benz(a)anthracene	56-55-3	1	µg/L	----	----	----	----	<1.0	----
Chrysene	218-01-9	1	µg/L	----	----	----	----	<1.0	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	----	----	----	----	<1.0	----
Benzo(k)fluoranthene	207-08-9	1	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	µg/L	----	----	----	----	<1.0	----
Dibenz(a.h)anthracene	53-70-3	1	µg/L	----	----	----	----	<1.0	----
Benzo(g.h.i)perylene	191-24-2	1	µg/L	----	----	----	----	<1.0	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	----	----	----	----	3.0	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L	----	----	----	----	<0.5	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L	----	----	----	----	40	----
C10 - C14 Fraction	----	50	µg/L	----	----	----	----	300	----
C15 - C28 Fraction	----	100	µg/L	----	----	----	----	1460	----
C29 - C36 Fraction	----	50	µg/L	----	----	----	----	710	----



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Point 6	Point 7	Point 8	Point 9	Point 10
Client sampling date / time					12-May-2016 12:15	12-May-2016 12:35	12-May-2016 12:40	12-May-2016 10:45	12-May-2016 10:50
Compound	CAS Number	LOR	Unit	EW1601846-006	EW1601846-007	EW1601846-008	EW1601846-009	EW1601846-010	
				Result	Result	Result	Result	Result	
EP080/071: Total Petroleum Hydrocarbons - Continued									
^ C10 - C36 Fraction (sum)	----	50	µg/L	----	----	----	2470	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L	----	----	----	40	----	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	----	----	----	30	----	
>C10 - C16 Fraction	----	100	µg/L	----	----	----	410	----	
>C16 - C34 Fraction	----	100	µg/L	----	----	----	2100	----	
>C34 - C40 Fraction	----	100	µg/L	----	----	----	360	----	
^ >C10 - C40 Fraction (sum)	----	100	µg/L	----	----	----	2870	----	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	----	----	----	410	----	
EP080: BTEXN									
Benzene	71-43-2	1	µg/L	----	----	----	2	----	
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	----	----	----	7	----	
ortho-Xylene	95-47-6	2	µg/L	----	----	----	<2	----	
^ Total Xylenes	1330-20-7	2	µg/L	----	----	----	7	----	
^ Sum of BTEX	----	1	µg/L	----	----	----	9	----	
Naphthalene	91-20-3	5	µg/L	----	----	----	<5	----	
FWI-EN/001: Groundwater Sampling - Depth									
Depth	----	0.01	m	----	----	----	8.02	----	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.5	%	----	----	----	82.5	----	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.5	%	----	----	----	79.0	----	
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1	%	----	----	----	25.3	----	
2-Chlorophenol-D4	93951-73-6	1	%	----	----	----	47.0	----	
2,4,6-Tribromophenol	118-79-6	1	%	----	----	----	75.0	----	
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1	%	----	----	----	66.5	----	
Anthracene-d10	1719-06-8	1	%	----	----	----	69.7	----	
4-Terphenyl-d14	1718-51-0	1	%	----	----	----	60.6	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Point 6	Point 7	Point 8	Point 9	Point 10
Client sampling date / time					12-May-2016 12:15	12-May-2016 12:35	12-May-2016 12:40	12-May-2016 10:45	12-May-2016 10:50
Compound	CAS Number	LOR	Unit	EW1601846-006	EW1601846-007	EW1601846-008	EW1601846-009	EW1601846-010	
				Result	Result	Result	Result	Result	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	2	%	----	----	----	123	----	
Toluene-D8	2037-26-5	2	%	----	----	----	124	----	
4-Bromofluorobenzene	460-00-4	2	%	----	----	----	124	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Point 11	Point 12	Point 13	Point 14	Point 15
Client sampling date / time				12-May-2016 12:50	12-May-2016 12:45	12-May-2016 11:50	12-May-2016 11:15	12-May-2016 11:05	
Compound	CAS Number	LOR	Unit	EW1601846-011	EW1601846-012	EW1601846-013	EW1601846-014	EW1601846-015	
				Result	Result	Result	Result	Result	
EA005FD: Field pH									
pH	----	0.1	pH Unit	6.0	----	----	6.8	----	
EA010FD: Field Conductivity									
Electrical Conductivity (Non Compensated)	----	1	µS/cm	128	----	----	1700	----	
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L	----	----	----	----	----	
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	5	mg/L	7	----	----	34	----	
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	----	----	----	----	----	
ED093T: Total Major Cations									
Sodium	7440-23-5	1	mg/L	----	----	----	----	----	
Potassium	7440-09-7	1	mg/L	----	----	----	----	----	
EG020T: Total Metals by ICP-MS									
Nickel	7440-02-0	0.001	mg/L	----	----	----	----	----	
Zinc	7440-66-6	0.005	mg/L	----	----	----	----	----	
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	0.04	----	----	0.15	----	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	----	----	----	----	----	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	----	----	----	----	----	
EN67 PK: Field Tests									
Field Observations	----	0.01	--	----	DRY	DRY	----	DRY	
EP005: Total Organic Carbon (TOC)									
Total Organic Carbon	----	1	mg/L	----	----	----	----	----	
EP025FD: Field Dissolved Oxygen									
Dissolved Oxygen	----	0.01	mg/L	7.06	----	----	5.73	----	
EP030: Biochemical Oxygen Demand (BOD)									
Biochemical Oxygen Demand	----	2	mg/L	5	----	----	4	----	
EP035G: Total Phenol by Discrete Analyser									
Phenols (Total)	----	0.05	mg/L	----	----	----	----	----	
EP068A: Organochlorine Pesticides (OC)									



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Point 11	Point 12	Point 13	Point 14	Point 15
Client sampling date / time					12-May-2016 12:50	12-May-2016 12:45	12-May-2016 11:50	12-May-2016 11:15	12-May-2016 11:05
Compound	CAS Number	LOR	Unit		EW1601846-011	EW1601846-012	EW1601846-013	EW1601846-014	EW1601846-015
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
alpha-BHC	319-84-6	0.5	µg/L		----	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L		----	----	----	----	----
beta-BHC	319-85-7	0.5	µg/L		----	----	----	----	----
gamma-BHC	58-89-9	0.5	µg/L		----	----	----	----	----
delta-BHC	319-86-8	0.5	µg/L		----	----	----	----	----
Heptachlor	76-44-8	0.5	µg/L		----	----	----	----	----
Aldrin	309-00-2	0.5	µg/L		----	----	----	----	----
Heptachlor epoxide	1024-57-3	0.5	µg/L		----	----	----	----	----
trans-Chlordane	5103-74-2	0.5	µg/L		----	----	----	----	----
alpha-Endosulfan	959-98-8	0.5	µg/L		----	----	----	----	----
cis-Chlordane	5103-71-9	0.5	µg/L		----	----	----	----	----
Dieldrin	60-57-1	0.5	µg/L		----	----	----	----	----
4,4'-DDE	72-55-9	0.5	µg/L		----	----	----	----	----
Endrin	72-20-8	0.5	µg/L		----	----	----	----	----
beta-Endosulfan	33213-65-9	0.5	µg/L		----	----	----	----	----
4,4'-DDD	72-54-8	0.5	µg/L		----	----	----	----	----
Endrin aldehyde	7421-93-4	0.5	µg/L		----	----	----	----	----
Endosulfan sulfate	1031-07-8	0.5	µg/L		----	----	----	----	----
4,4'-DDT	50-29-3	2	µg/L		----	----	----	----	----
Endrin ketone	53494-70-5	0.5	µg/L		----	----	----	----	----
Methoxychlor	72-43-5	2	µg/L		----	----	----	----	----
^ Total Chlordane (sum)	----	0.5	µg/L		----	----	----	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	µg/L		----	----	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	µg/L		----	----	----	----	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.5	µg/L		----	----	----	----	----
Demeton-S-methyl	919-86-8	0.5	µg/L		----	----	----	----	----
Monocrotophos	6923-22-4	2	µg/L		----	----	----	----	----
Dimethoate	60-51-5	0.5	µg/L		----	----	----	----	----
Diazinon	333-41-5	0.5	µg/L		----	----	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.5	µg/L		----	----	----	----	----
Parathion-methyl	298-00-0	2	µg/L		----	----	----	----	----
Malathion	121-75-5	0.5	µg/L		----	----	----	----	----
Fenthion	55-38-9	0.5	µg/L		----	----	----	----	----



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Point 11	Point 12	Point 13	Point 14	Point 15
Client sampling date / time					12-May-2016 12:50	12-May-2016 12:45	12-May-2016 11:50	12-May-2016 11:15	12-May-2016 11:05
Compound	CAS Number	LOR	Unit	EW1601846-011	EW1601846-012	EW1601846-013	EW1601846-014	EW1601846-015	
				Result	Result	Result	Result	Result	
EP068B: Organophosphorus Pesticides (OP) - Continued									
Chlorpyrifos	2921-88-2	0.5	µg/L	----	----	----	----	----	
Parathion	56-38-2	2	µg/L	----	----	----	----	----	
Pirimphos-ethyl	23505-41-1	0.5	µg/L	----	----	----	----	----	
Chlorfenvinphos	470-90-6	0.5	µg/L	----	----	----	----	----	
Bromophos-ethyl	4824-78-6	0.5	µg/L	----	----	----	----	----	
Fenamiphos	22224-92-6	0.5	µg/L	----	----	----	----	----	
Prothiofos	34643-46-4	0.5	µg/L	----	----	----	----	----	
Ethion	563-12-2	0.5	µg/L	----	----	----	----	----	
Carbophenothion	786-19-6	0.5	µg/L	----	----	----	----	----	
Azinphos Methyl	86-50-0	0.5	µg/L	----	----	----	----	----	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1	µg/L	----	----	----	----	----	
Acenaphthylene	208-96-8	1	µg/L	----	----	----	----	----	
Acenaphthene	83-32-9	1	µg/L	----	----	----	----	----	
Fluorene	86-73-7	1	µg/L	----	----	----	----	----	
Phenanthrene	85-01-8	1	µg/L	----	----	----	----	----	
Anthracene	120-12-7	1	µg/L	----	----	----	----	----	
Fluoranthene	206-44-0	1	µg/L	----	----	----	----	----	
Pyrene	129-00-0	1	µg/L	----	----	----	----	----	
Benz(a)anthracene	56-55-3	1	µg/L	----	----	----	----	----	
Chrysene	218-01-9	1	µg/L	----	----	----	----	----	
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	----	----	----	----	----	
Benzo(k)fluoranthene	207-08-9	1	µg/L	----	----	----	----	----	
Benzo(a)pyrene	50-32-8	0.5	µg/L	----	----	----	----	----	
Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	----	----	----	----	----	
Dibenz(a.h)anthracene	53-70-3	1	µg/L	----	----	----	----	----	
Benzo(g.h.i)perylene	191-24-2	1	µg/L	----	----	----	----	----	
[^] Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	----	----	----	----	----	
[^] Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L	----	----	----	----	----	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L	----	----	----	----	----	
C10 - C14 Fraction	----	50	µg/L	----	----	----	----	----	
C15 - C28 Fraction	----	100	µg/L	----	----	----	----	----	
C29 - C36 Fraction	----	50	µg/L	----	----	----	----	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)		Client sample ID		Point 16	Point 17	----	----	----
Client sampling date / time		12-May-2016 13:15		12-May-2016 13:35		----	----	----
Compound	CAS Number	LOR	Unit	EW1601846-016	EW1601846-017	-----	-----	-----
				Result	Result	----	----	----
EA005FD: Field pH								
pH	----	0.1	pH Unit	6.2	6.7	----	----	----
EA010FD: Field Conductivity								
Electrical Conductivity (Non Compensated)	----	1	µS/cm	489	449	----	----	----
EA015: Total Dissolved Solids dried at 180 ± 5 °C								
Total Dissolved Solids @180°C	----	10	mg/L	----	----	----	----	----
EA025: Total Suspended Solids dried at 104 ± 2°C								
Suspended Solids (SS)	----	5	mg/L	<5	<5	----	----	----
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA								
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	----	----	----	----	----
ED093T: Total Major Cations								
Sodium	7440-23-5	1	mg/L	----	----	----	----	----
Potassium	7440-09-7	1	mg/L	----	----	----	----	----
EG020T: Total Metals by ICP-MS								
Nickel	7440-02-0	0.001	mg/L	----	----	----	----	----
Zinc	7440-66-6	0.005	mg/L	----	----	----	----	----
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	0.03	0.01	----	----	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Nitrite + Nitrate as N	----	0.01	mg/L	----	----	----	----	----
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	----	----	----	----	----
EN67 PK: Field Tests								
Field Observations	----	0.01	--	----	----	----	----	----
EP005: Total Organic Carbon (TOC)								
Total Organic Carbon	----	1	mg/L	----	----	----	----	----
EP025FD: Field Dissolved Oxygen								
Dissolved Oxygen	----	0.01	mg/L	9.87	9.74	----	----	----
EP030: Biochemical Oxygen Demand (BOD)								
Biochemical Oxygen Demand	----	2	mg/L	<2	<2	----	----	----
EP035G: Total Phenol by Discrete Analyser								
Phenols (Total)	----	0.05	mg/L	----	----	----	----	----
EP068A: Organochlorine Pesticides (OC)								



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Point 16	Point 17	----	----	----
Client sampling date / time					12-May-2016 13:15	12-May-2016 13:35	----	----	----
Compound	CAS Number	LOR	Unit		EW1601846-016	EW1601846-017	-----	-----	-----
					Result	Result	----	----	----
EP068A: Organochlorine Pesticides (OC) - Continued									
alpha-BHC	319-84-6	0.5	µg/L		----	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L		----	----	----	----	----
beta-BHC	319-85-7	0.5	µg/L		----	----	----	----	----
gamma-BHC	58-89-9	0.5	µg/L		----	----	----	----	----
delta-BHC	319-86-8	0.5	µg/L		----	----	----	----	----
Heptachlor	76-44-8	0.5	µg/L		----	----	----	----	----
Aldrin	309-00-2	0.5	µg/L		----	----	----	----	----
Heptachlor epoxide	1024-57-3	0.5	µg/L		----	----	----	----	----
trans-Chlordane	5103-74-2	0.5	µg/L		----	----	----	----	----
alpha-Endosulfan	959-98-8	0.5	µg/L		----	----	----	----	----
cis-Chlordane	5103-71-9	0.5	µg/L		----	----	----	----	----
Dieldrin	60-57-1	0.5	µg/L		----	----	----	----	----
4,4'-DDE	72-55-9	0.5	µg/L		----	----	----	----	----
Endrin	72-20-8	0.5	µg/L		----	----	----	----	----
beta-Endosulfan	33213-65-9	0.5	µg/L		----	----	----	----	----
4,4'-DDD	72-54-8	0.5	µg/L		----	----	----	----	----
Endrin aldehyde	7421-93-4	0.5	µg/L		----	----	----	----	----
Endosulfan sulfate	1031-07-8	0.5	µg/L		----	----	----	----	----
4,4'-DDT	50-29-3	2	µg/L		----	----	----	----	----
Endrin ketone	53494-70-5	0.5	µg/L		----	----	----	----	----
Methoxychlor	72-43-5	2	µg/L		----	----	----	----	----
^ Total Chlordane (sum)	----	0.5	µg/L		----	----	----	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	µg/L		----	----	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	µg/L		----	----	----	----	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.5	µg/L		----	----	----	----	----
Demeton-S-methyl	919-86-8	0.5	µg/L		----	----	----	----	----
Monocrotophos	6923-22-4	2	µg/L		----	----	----	----	----
Dimethoate	60-51-5	0.5	µg/L		----	----	----	----	----
Diazinon	333-41-5	0.5	µg/L		----	----	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.5	µg/L		----	----	----	----	----
Parathion-methyl	298-00-0	2	µg/L		----	----	----	----	----
Malathion	121-75-5	0.5	µg/L		----	----	----	----	----
Fenthion	55-38-9	0.5	µg/L		----	----	----	----	----



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Point 16	Point 17	----	----	----
Client sampling date / time				12-May-2016 13:15	12-May-2016 13:35	----	----	----	
Compound	CAS Number	LOR	Unit	EW1601846-016	EW1601846-017	-----	-----	-----	
				Result	Result	----	----	----	
EP068B: Organophosphorus Pesticides (OP) - Continued									
Chlorpyrifos	2921-88-2	0.5	µg/L	----	----	----	----	----	
Parathion	56-38-2	2	µg/L	----	----	----	----	----	
Pirimphos-ethyl	23505-41-1	0.5	µg/L	----	----	----	----	----	
Chlorfenvinphos	470-90-6	0.5	µg/L	----	----	----	----	----	
Bromophos-ethyl	4824-78-6	0.5	µg/L	----	----	----	----	----	
Fenamiphos	22224-92-6	0.5	µg/L	----	----	----	----	----	
Prothiofos	34643-46-4	0.5	µg/L	----	----	----	----	----	
Ethion	563-12-2	0.5	µg/L	----	----	----	----	----	
Carbophenothion	786-19-6	0.5	µg/L	----	----	----	----	----	
Azinphos Methyl	86-50-0	0.5	µg/L	----	----	----	----	----	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1	µg/L	----	----	----	----	----	
Acenaphthylene	208-96-8	1	µg/L	----	----	----	----	----	
Acenaphthene	83-32-9	1	µg/L	----	----	----	----	----	
Fluorene	86-73-7	1	µg/L	----	----	----	----	----	
Phenanthrene	85-01-8	1	µg/L	----	----	----	----	----	
Anthracene	120-12-7	1	µg/L	----	----	----	----	----	
Fluoranthene	206-44-0	1	µg/L	----	----	----	----	----	
Pyrene	129-00-0	1	µg/L	----	----	----	----	----	
Benz(a)anthracene	56-55-3	1	µg/L	----	----	----	----	----	
Chrysene	218-01-9	1	µg/L	----	----	----	----	----	
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	----	----	----	----	----	
Benzo(k)fluoranthene	207-08-9	1	µg/L	----	----	----	----	----	
Benzo(a)pyrene	50-32-8	0.5	µg/L	----	----	----	----	----	
Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	----	----	----	----	----	
Dibenz(a.h)anthracene	53-70-3	1	µg/L	----	----	----	----	----	
Benzo(g.h.i)perylene	191-24-2	1	µg/L	----	----	----	----	----	
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	----	----	----	----	----	
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L	----	----	----	----	----	
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L	----	----	----	----	----	
C10 - C14 Fraction	----	50	µg/L	----	----	----	----	----	
C15 - C28 Fraction	----	100	µg/L	----	----	----	----	----	
C29 - C36 Fraction	----	50	µg/L	----	----	----	----	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Point 16	Point 17	----	----	----
Client sampling date / time				12-May-2016 13:15	12-May-2016 13:35	----	----	----	
Compound	CAS Number	LOR	Unit	EW1601846-016	EW1601846-017	-----	-----	-----	
				Result	Result	----	----	----	
EP080/071: Total Petroleum Hydrocarbons - Continued									
^ C10 - C36 Fraction (sum)	----	50	µg/L	----	----	----	----	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L	----	----	----	----	----	
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	----	----	----	----	----	
>C10 - C16 Fraction	----	100	µg/L	----	----	----	----	----	
>C16 - C34 Fraction	----	100	µg/L	----	----	----	----	----	
>C34 - C40 Fraction	----	100	µg/L	----	----	----	----	----	
^ >C10 - C40 Fraction (sum)	----	100	µg/L	----	----	----	----	----	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	----	----	----	----	----	
EP080: BTEXN									
Benzene	71-43-2	1	µg/L	----	----	----	----	----	
Toluene	108-88-3	2	µg/L	----	----	----	----	----	
Ethylbenzene	100-41-4	2	µg/L	----	----	----	----	----	
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	----	----	----	----	----	
ortho-Xylene	95-47-6	2	µg/L	----	----	----	----	----	
^ Total Xylenes	1330-20-7	2	µg/L	----	----	----	----	----	
^ Sum of BTEX	----	1	µg/L	----	----	----	----	----	
Naphthalene	91-20-3	5	µg/L	----	----	----	----	----	
FWI-EN/001: Groundwater Sampling - Depth									
Depth	----	0.01	m	----	----	----	----	----	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.5	%	----	----	----	----	----	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.5	%	----	----	----	----	----	
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1	%	----	----	----	----	----	
2-Chlorophenol-D4	93951-73-6	1	%	----	----	----	----	----	
2,4,6-Tribromophenol	118-79-6	1	%	----	----	----	----	----	
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1	%	----	----	----	----	----	
Anthracene-d10	1719-06-8	1	%	----	----	----	----	----	
4-Terphenyl-d14	1718-51-0	1	%	----	----	----	----	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Point 16	Point 17	----	----	----
Client sampling date / time				12-May-2016 13:15	12-May-2016 13:35	----	----	----	
Compound	CAS Number	LOR	Unit	EW1601846-016	EW1601846-017	-----	-----	-----	
				Result	Result	----	----	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	2	%	----	----	----	----	----	
Toluene-D8	2037-26-5	2	%	----	----	----	----	----	
4-Bromofluorobenzene	460-00-4	2	%	----	----	----	----	----	



Surrogate Control Limits

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	30	120
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	27	129
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