BHP Billiton Canada Inc.
Operator of the EKATI Diamond Mine

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8 November, 2011

Aboriginal Affairs and Northern Development Canada
South Mackenzie District Field Office
140 Bristol Avenue
#16 Yellowknife Airport
Yellowknife, NT X1A 3T2

Attention: Jason Brennan
Resource Management Officer III

RE: 2011 Pumping Summary for King Pond

Dear Mr. Brennan:

This letter provides the summary of pumping activities for King Pond for the 2011 season.

The information includes:

a) *measured flow rates;*
b) *erosional issues encountered and mitigative actions taken (if required);*
c) *results of water quality monitoring; and*
d) *a summary of impacts to the environment.*

Pre-discharge water samples were collected from King Pond on 16 August 2011 and submitted to ALS Laboratories for analysis of the pre-approval suite of parameters. Approval was granted on 29 August 2011 and pumping commenced on 30 August 2011.

Pumping from King Pond to Cujo Lake continued until 10 September 2011. During the pumping, discharge samples were collected on 30 August and 10 September 2011. The pump ran continuously between 30 August 2011 and 10 September 2011.

The final elevation of King Pond on 10 September 2011 was 443.80 meters above sea level (masl).

Pumping Summary

A summary of the pumping rate, volume and discharge conditions is found below:

Inspection Date	Flow Rate (m^3/hr)	Water Volume (m^3)	Discharge Observations	Leaks/ Spills Y/N	Description of any leaks/spills
31-Aug-11	1024	29,031	Clear, no erosion	Y	Small Leak approximately 5 m upflow of meter at pipe joint
1-Sep-11	1054	52,746	Clear, no erosion	Y	Small Leak approximately 5 m upflow of meter at pipe joint
2-Sep-11	1043	74,306	Clear, no erosion	Y	Small Leak approximately 5 m upflow of meter at pipe joint
3-Sep-11	1024	95,889	Clear, no erosion	Y	Light spray before meter
4-Sep-11	1020	112,753	Clear, no erosion	Y	Light spray before meter
5-Sep-11	1016	143,432	Clear, no erosion	N	NA
6-Sep-11	1000	167,778	Clear, no erosion	N	NA
7-Sep-11	994	191,546	Clear, no erosion	N	NA
8-Sep-11	988	213,180	Clear, no erosion	N	NA
9-Sep-11	969	235,463	Clear, no erosion	N	NA
10-Sep-11	0	265,463*	Not pumping	N	NA
Total Volume Pumped 265,463 m^3					

Note: * indicates calculated water volume based on the flow rate and run time

Water Quality Monitoring

Results from the pre-approval and discharge samples indicate there were no impacts on the receiving environment during the pumping interval, as the water samples were below the Water Licence discharge criteria.

Water sampling results are summarized in the table below with laboratory Certificates of Analysis (COAs) attached.

Collect Date		16-AUG-11	30-AUG-11	10-SEP-11	W2009L2-001 Criteria	
Sample No.		L1046941-1	L1054854-1	L1058120-1		
Sample Type		Pre-Approval	Discharge	Discharge	Grab	Average
Air Temperature	Deg C	9.6	12.1	10.4		
Weather		Rain	Sunny	Cloudy		
Wind Direction	Degrees	90	9	300		
Wind Speed	km/h	37	32	39		
Field pH	pH	7.61	7.74	8.24		
Field Conductivity	uS/cm	682	369.5	405.6		
Field Temperature	Deg C	7.61	11.3	9.77		
Hardness (as CaCO3)	mg/L	81.7	153	166		
pH	pH	7.68	7.69	7.83	6.0 - 9.0	6.0 - 9.0
Conductibity	uS/cm	214	372	400		
Total Suspended Solids	mg/L	<3.0	6.2	<3.0	25	15
Turbidity	NTU	0.80	2.01	0.88		
Alkalinity, Total (as CaCO3)	mg/L	27.3	33.3	33.9		
Ammonia (as N)	mg/L	0.0110	0.0217	0.0105	4	2
Chloride (Cl)	mg/L	4.21	7.00	7.71		
Nitrate and Nitrite (as N)	mg/L	0.0284	0.567	0.605		
Nitrate (as N)	mg/L	0.0284	0.561	0.601		
Nitrite (as N)	mg/L	<0.0010	0.0052	0.0036		
Orthophosphate-Dissolved (as P)	mg/L	<0.0010	<0.0010	<0.0010		
Phosphorus (P)-Total	mg/L	0.0111	0.0130	0.0083		
Sulfate (SO4)	mg/L	63.6	133	145		
Total Carbon	mg/L	10.4	11.7	11.2		
Total Organic Carbon	mg/L	5.94	5.75	5.27		
Aluminum (Al)-Total	mg/L	0.0075	0.148	0.0291	2	1
Antimony (Sb)-Total	mg/L	0.00011	0.00020	0.00022		
Arsenic (As)-Total	mg/L	0.00089	0.00116	0.00113	1	0.5
Barium (Ba)-Total	mg/L	0.0129	0.0254	0.0250		
Beryllium (Be)-Total	mg/L	<0.00010	<0.00010	<0.00010		
Bismuth (Bi)-Total	mg/L	<0.00050	<0.00050	<0.00050		
Boron (B)-Total	mg/L	0.014	0.016	0.018		
Cadmium (Cd)-Total	mg/L	<0.000010	<0.000010	0.000011		
Calcium (Ca)-Total	mg/L	11.5	22.3	23.8		
Chromium (Cr)-Total	mg/L	<0.00050	0.00066	<0.00050		
Cobalt (Co)-Total	mg/L	0.00015	0.00029	0.00020		

Collect Date		16-AUG-11	30-AUG-11	10-SEP-11	W2009L2-001 Criteria	
Sample No.		L1046941-1	L1054854-1	L1058120-1		
Sample Type		Pre-Approval	Discharge	Discharge	Grab	Average
Copper (Cu)-Total	mg/L	0.00072	0.00093	0.00250	0.2	0.1
Iron (Fe)-Total	mg/L	0.124	0.272	0.141		
Lead (Pb)-Total	mg/L	0.000097	0.000054	0.000145		
Lithium (Li)-Total	mg/L	0.00704	0.0124	0.0102		
Magnesium (Mg)-Total	mg/L	12.8	23.6	26.0		
Manganese (Mn)-Total	mg/L	0.00964	0.0156	0.0171		
Molybdenum (Mo)-Total	mg/L	0.00840	0.0204	0.0216		
Nickel (Ni)-Total	mg/L	0.00266	0.00534	0.00518	0.3	0.15
Phosphorus (P)-Total	mg/L	<0.30	NS	NS		
Potassium (K)-Total	mg/L	7.2	11.9	14.1		
Selenium (Se)-Total	mg/L	0.00011	0.00053	0.00081		
Silicon (Si)-Total	mg/L	0.137	0.930	0.32		
Silver (Ag)-Total	mg/L	<0.000010	<0.000010	<0.000010		
Sodium (Na)-Total	mg/L	5.5	7.7	9.2		
Strontium (Sr)-Total	mg/L	0.130	0.248	0.302		
Thallium (Tl)-Total	mg/L	<0.000010	<0.000010	<0.000010		
Tin (Sn)-Total	mg/L	<0.00010	<0.00010	0.0351		
Titanium (Ti)-Total	mg/L	<0.010	0.013	<0.020		
Uranium (U)-Total	mg/L	0.000890	0.00498	0.00476		
Vanadium (V)-Total	mg/L	<0.0010	<0.0010	<0.0010		
Zinc (Zn)-Total	mg/L	<0.0030	<0.0030	0.0034		
BOD	mg/L	<5.0	NS	NS	-	40
Oil and Grease	mg/L	NS	<5.0	<5.0		
Benzene	mg/L	<0.00050	<0.00050	<0.00050		
Ethylbenzene	mg/L	<0.00050	<0.00050	<0.00050		
Styrene	mg/L	<0.00050	<0.00050	<0.00050		
Toluene	mg/L	<0.00050	<0.00050	<0.00050		
ortho-Xylene	mg/L	<0.00050	<0.00050	<0.00050		
meta- & para-Xylene	mg/L	<0.00050	<0.00050	<0.00050		
Xylenes	mg/L	<0.00075	<0.00075	<0.00075		
TVH (C5-C10)	mg/L	<0.10	<0.10	<0.10		
TEH10-30	mg/L	<0.15	<0.15	<0.15		
TPH5-30	mg/L	<0.25	<0.25	<0.25	5	3
Diethylene Glycol	mg/L		<5.0	<5.0		
Ethylene Glycol	mg/L		<5.0	<5.0		
1,2-Propylene Glycol	mg/L		<5.0	<5.0		

Note: NS – not sampled

We trust the information meets with your requirements at this time. Please contact the undersigned at 867-880-2232 should there be any questions or concerns with this matter.

Yours truly,
BHP Billiton Canada Inc.

FOR

Keith McLean
Environment Superintendent - Operations
EKATI Diamond Mine

cc: Bruce Hanna – Department of Fisheries and Oceans
Ryan Fequet – Wek'`eezhii Land and Water Board

Attached: Laboratory Certificates of Analysis

BHP BILLITON CANADA INC..
ATTN: David G. Bruce / Richard Ehlert David
1102 - 4920 52nd Street
Yellowknife NT X1A 3T1

Date Received: 18-AUG-11
Report Date: 29-AUG-11 20:43 (MT)
Version: FINAL

Client Phone: 867-880-2157

Certificate of Analysis

Lab Work Order #: L1046941

Project P.O. #: BHP2001
Job Reference: 68606
C of C Numbers:
Legal Site Desc: 6200801716

Comments: - The vials for BETX/VH analysis for the sample ALS identify as L1046941-2 were half full. BETX/VH are volatile hydrocarbons which could be lost via volatilization in a half full vial. This should be considered when reviewing the data.

Can Dang
Senior Account Manager

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1046941-1	L1046941-2	L1046941-3	L1046941-4	
	Description	WATER	WATER	WATER	WATER	
	Sampled Date	16-AUG-11	16-AUG-11	16-AUG-11	16-AUG-11	
	Sampled Time	10:45	10:50	10:53	10:54	
	Client ID	1616-43_APPROVAL	1616-121	1616-494	1616-343	
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	214	2.5	<2.0	213	
	Hardness (as CaCO3) (mg/L)	81.7	<0.50	<0.50	83.4	
	pH (pH)	7.68	5.21	5.68	7.85	
	Total Suspended Solids (mg/L)	<3.0	<3.0	<3.0	3.1	
	Turbidity (NTU)	0.80	0.12	<0.10	1.15	
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	27.3	<2.0	<2.0	26.5	
	Ammonia (as N) (mg/L)	0.0110	0.0145	0.166	0.0138	
	Chloride (Cl) (mg/L)	4.21	<0.50	<0.50	4.20	
	Nitrate and Nitrite (as N) (mg/L)	0.0284	<0.0051	<0.0051	0.0304	
	Nitrate (as N) (mg/L)	0.0284	<0.0050	<0.0050	0.0304	
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	
	Orthophosphate-Dissolved (as P) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	
	Phosphorus (P)-Total (mg/L)	0.0111	<0.0020	<0.0020	0.0202	
	Sulfate (SO4) (mg/L)	63.6	0.54	<0.50	63.6	
Organic / Inorganic Carbon	Total Carbon (mg/L)	10.4	<0.50	<0.50	10.6	
	Total Organic Carbon (mg/L)	5.94	<0.50	<0.50	5.51	
Total Metals	Aluminum (Al)-Total (mg/L)	0.0075	<0.0030	<0.0030	0.0571	
	Antimony (Sb)-Total (mg/L)	0.00011	<0.00010	<0.00010	<0.00010	
	Arsenic (As)-Total (mg/L)	0.00089	<0.00010	<0.00010	0.00093	
	Barium (Ba)-Total (mg/L)	0.0129	<0.000050	<0.000050	0.0142	
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	
	Boron (B)-Total (mg/L)	0.014	<0.010	<0.010	0.012	
	Cadmium (Cd)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	
	Calcium (Ca)-Total (mg/L)	11.5	<0.050	<0.050	11.7	
	Chromium (Cr)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	
	Cobalt (Co)-Total (mg/L)	0.00015	<0.00010	<0.00010	0.00023	
	Copper (Cu)-Total (mg/L)	0.00072	<0.00050	<0.00050	0.00081	
	Iron (Fe)-Total (mg/L)	0.124	<0.030	<0.030	0.203	
	Lead (Pb)-Total (mg/L)	0.000097	<0.000050	<0.000050	0.000068	
	Lithium (Li)-Total (mg/L)	0.00704	<0.00050	<0.00050	0.00627	
	Magnesium (Mg)-Total (mg/L)	12.8	<0.10	<0.10	13.2	
	Manganese (Mn)-Total (mg/L)	0.00964	<0.000050	<0.000050	0.0150	
	Molybdenum (Mo)-Total (mg/L)	0.00840	<0.000050	<0.000050	0.00746	
	Nickel (Ni)-Total (mg/L)	0.00266	<0.00050	<0.00050	0.00316	
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.30	<0.30	

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1046941-1	L1046941-2	L1046941-3	L1046941-4	
	Description	WATER	WATER	WATER	WATER	
	Sampled Date	16-AUG-11	16-AUG-11	16-AUG-11	16-AUG-11	
	Sampled Time	10:45	10:50	10:53	10:54	
	Client ID	1616-43_APPROVAL	1616-121	1616-494	1616-343	
Grouping	**Analyte**					
WATER						
Total Metals	Potassium (K)-Total (mg/L)	7.2	<2.0	<2.0	7.5	
	Selenium (Se)-Total (mg/L)	0.00011	<0.00010	<0.00010	0.00012	
	Silicon (Si)-Total (mg/L)	0.137	<0.050	<0.050	0.265	
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	
	Sodium (Na)-Total (mg/L)	5.5	<2.0	<2.0	5.7	
	Strontium (Sr)-Total (mg/L)	0.130	<0.00010	<0.00010	0.115	
	Thallium (Tl)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010	
	Uranium (U)-Total (mg/L)	0.000890	<0.000010	<0.000010	0.000828	
	Vanadium (V)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	
	Zinc (Zn)-Total (mg/L)	<0.0030	<0.0030	<0.0030	<0.0030	
Aggregate Organics	BOD (mg/L)	<5.0	<5.0	<5.0	<5.0	
Volatile Organic Compounds	Benzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	
	Ethylbenzene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	
	Styrene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	
	Toluene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	
	ortho-Xylene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	
	meta- & para-Xylene (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	
	Xylenes (mg/L)	<0.00075	<0.00075	<0.00075	<0.00075	
	Surrogate: 4-Bromofluorobenzene (SS) (%)	106	101	101	97	
	Surrogate: 1,4-Difluorobenzene (SS) (%)	101	100	101	100	
Hydrocarbons	TVH (C5-C10) (mg/L)	<0.10	<0.10	<0.10	<0.10	
	TEH10-30 (mg/L)	<0.15	<0.15	<0.15	<0.15	
	TPH5-30 (mg/L)	<0.25	<0.25	<0.25	<0.25	

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
ANIONS-N+N-CALC-VA	Water	Nitrite & Nitrate in Water (Calculation)	EPA 300.0
Nitrate and Nitrite (as N) is a calculated parameter. Nitrate and Nitrite (as N) = Nitrite (as N) + Nitrate (as N).			
ANIONS-NO2-IC-VA	Water	Nitrite in Water by Ion Chromatography	EPA 300.0
This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrite is detected by UV absorbance.			
ANIONS-NO3-IC-VA	Water	Nitrate in Water by Ion Chromatography	EPA 300.0
This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrate is detected by UV absorbance.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
AS-T-CCMS-VA	Water	Total Arsenic in Water by CRC ICPMS	APHA 3030 B&E / EPA SW-846 6020A
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modifed from EPA Method 6020A).			
BOD5-VA	Water	Biochemical Oxygen Demand- 5 day	APHA 5210 B- "BIOCHEMICAL OXYGEN DEMAND"
This analysis is carried out using procedures adapted from APHA Method 5210 B - "Biochemical Oxygen Demand (BOD)". All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation.			
BOD5-VA	Water	Biochemical Oxygen Demand- 5 day	APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND
This analysis is carried out using procedures adapted from APHA Method 5210 B - "Biochemical Oxygen Demand (BOD)". All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation.			
CARBONS-TC-VA	Water	Total carbon by combustion	APHA 5310 TOTAL ORGANIC CARBON (TOC)
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".			
CARBONS-TOC-VA	Water	Total organic carbon by combustion	APHA 5310 TOTAL ORGANIC CARBON (TOC)
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
EPH-LL-SF-FID-VA	Water	EPH in Waters by GCFID	BCMOE EPH GCFID
This analysis is carried out in accordance with the British Columbia Ministry of Environment, Lands and Parks (BCMELP) Analytical Method for Contaminated Sites "Extractable Petroleum Hydrocarbons in Water by GC/FID" (Version 2.1, July 1999). The procedure involves extraction of the entire water sample with dichloromethane. The extract is then solvent exchanged to toluene and analysed by capillary column gas chromatography with flame ionization detection (GC/FID). EPH results include Polycyclic Aromatic Hydrocarbons (PAH) and are therefore not equivalent to Light and Heavy Extractable Petroleum Hydrocarbons (LEPH/HEPH).			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.			
MET-T-CCMS-VA	Water	Total Metals in Water by CRC ICPMS	APHA 3030 B&E / EPA SW-846 6020A
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modifed from EPA Method 6020A).			
MET-TOT-ICP-VA	Water	Total Metals in Water by ICPOES	EPA SW-846 3005A/6010B

Reference Information

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

NH3-F-VA	Water	Ammonia in Water by Fluorescence	J. ENVIRON. MONIT., 2005, 7, 37-42, RSC

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.

P-T-COL-VA	Water	Total P in Water by Colour	APHA 4500-P Phosphorous

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.

PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

It is recommended that this analysis be conducted in the field.

PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H pH Value

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

It is recommended that this analysis be conducted in the field.

PO4-DO-COL-VA	Water	Diss. Orthophosphate in Water by Colour	APHA 4500-P Phosphorous

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Dissolved Orthophosphate is determined colourimetrically on a sample that has been lab or field filtered through a 0.45 micron membrane filter.

SE-T-CCMS-VA	Water	Total Selenium in Water by CRC ICPMS	APHA 3030 B&E / EPA SW-846 6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modifed from EPA Method 6020A).

TSS-VA	Water	Total Suspended Solids by Gravimetric	APHA 2540 D - GRAVIMETRIC

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.

TURBIDITY-VA	Water	Turbidity by Meter	APHA 2130 "Turbidity"

This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.

TURBIDITY-VA	Water	Turbidity by Meter	APHA 2130 Turbidity

This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.

TVH-HSFID-VA	Water	TVH by headspace GCFID	EPA 8260B, BCMELP CSR METHOD

This procedure involves the headspace extraction of the sample prior to analysis for Volatile Hydrocarbons (VH) by capillary column gas chromatography with flame-ionization detection (GC/FID). The VH analysis is carried out in accordance with the British Columbia Ministry of Environment, Lands and Parks (BCMELP) Analytical Method for Contaminated Sites "Volatile Hydrocarbons in Water by GC/FID" (Version 2.1, July 1999).

VOC7-HSMS-VA	Water	BTEX/MTBE/Styrene by Headspace GCMS	EPA8260B, 5021

The water sample, with added reagents, is heated in a sealed vial to equilibrium. The headspace from the vial is transfered into a gas chromatograph. Target compound concentrations are measured using mass spectrometry detection.

VOC7/VOC-SURR-MS-VA	Water	VOC7 and/or VOC Surrogates for Waters	EPA8260B, 5021
XYLENES-CALC-VA	Water	Sum of Xylene Isomer Concentrations	CALCULATION

Calculation of Total Xylenes

Total Xylenes is the sum of the concentrations of the ortho, meta, and para Xylene isomers. Results below detection limit (DL) are treated as zero. The DL for Total Xylenes is set to a value no less than the square root of the sum of the squares of the DLs of the individual Xylenes.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location

Reference Information

VA ALS ENVIRONMENTAL - VANCOUVER, BC, CANADA

Chain of Custody Numbers:

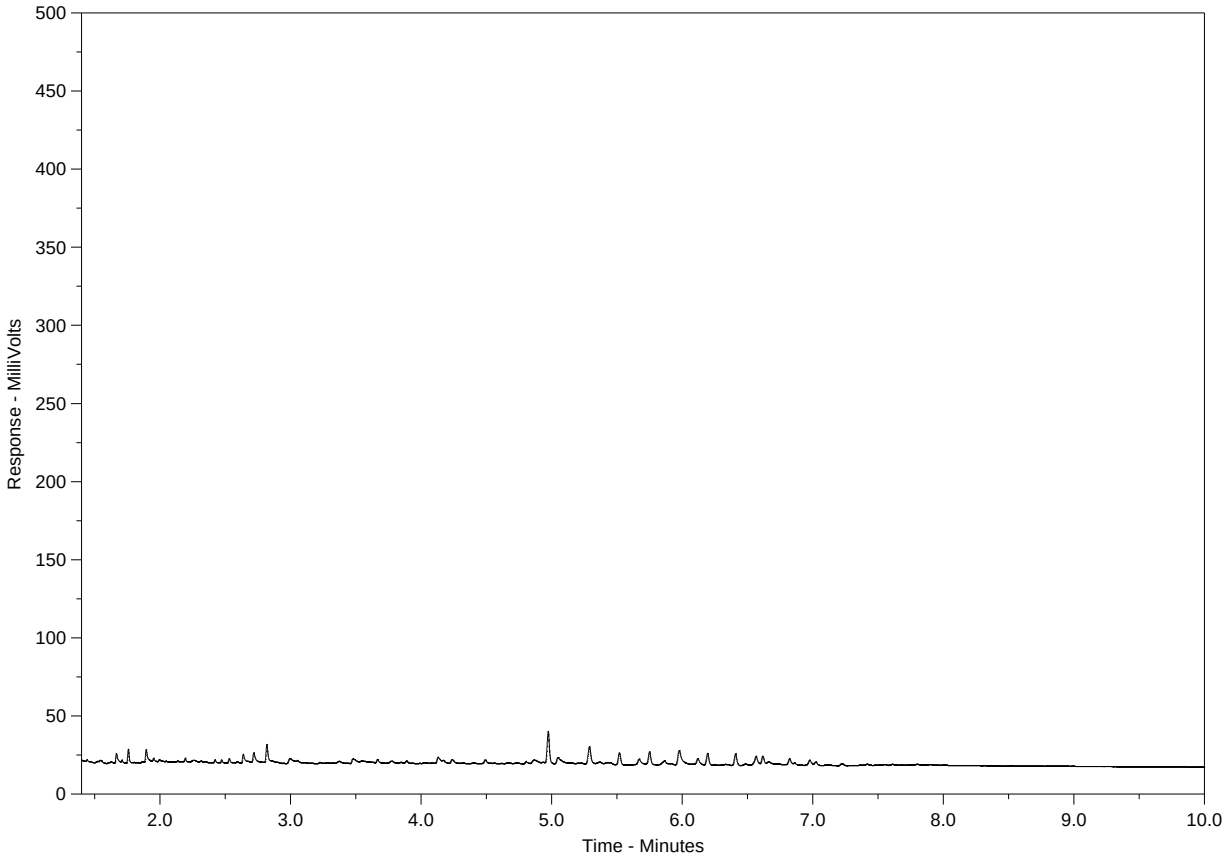
GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.
mg/kg - milligrams per kilogram based on dry weight of sample.
mg/kg wwt - milligrams per kilogram based on wet weight of sample.
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.
mg/L - milligrams per litre.
< - Less than.
D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Hydrocarbon Distribution Report

ALS Sample ID: L1046941-1
Client Sample ID: 1616-43_APPROVAL



nC10	nC19	nC32
174°C	330°C	467°C
346°F	626°F	873°F
← Gasoline →	← Motor Oils / Lube Oils / Grease →	
← Diesel / Jet Fuels →		

The EPH Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample. For further interpretation, a current library of reference products is available on www.alsglobal.com or upon request.

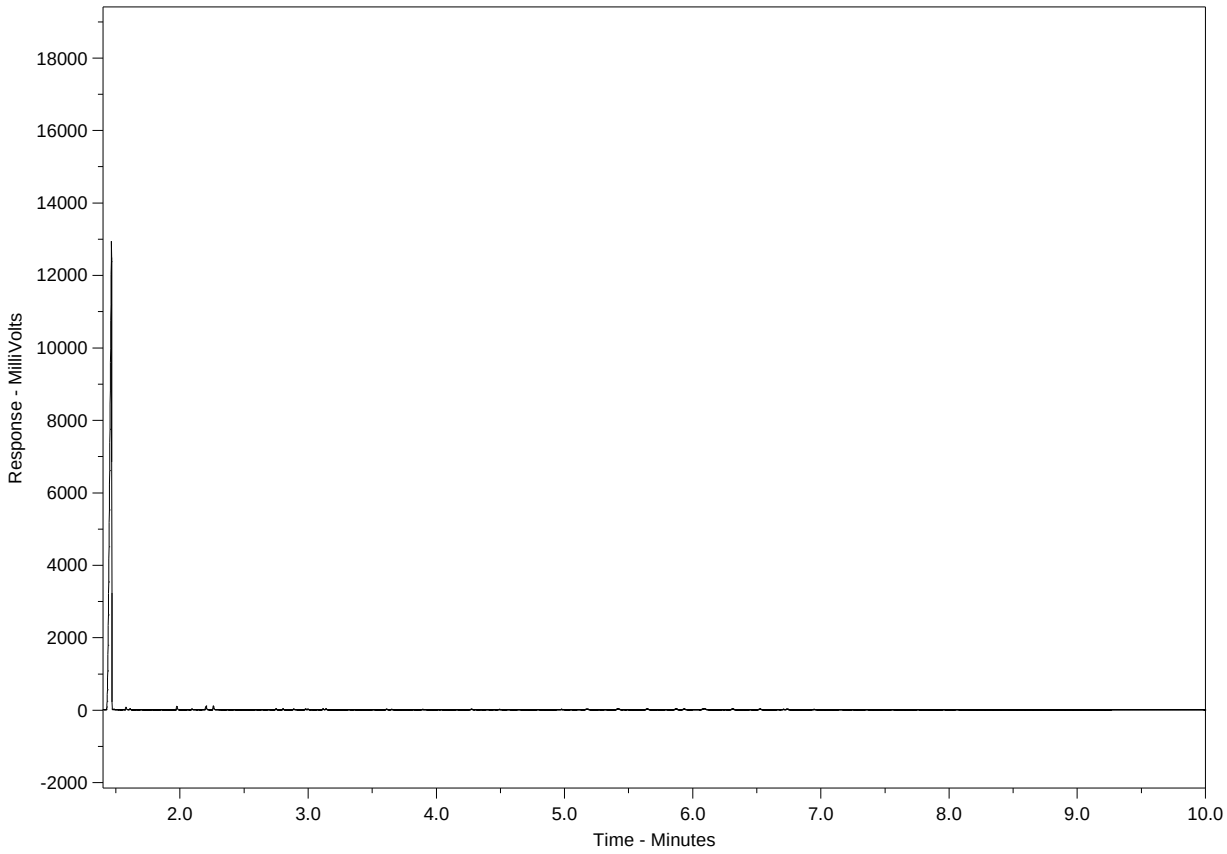
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products, and three n-alkane hydrocarbon marker compounds. Retention times may vary between samples by as much as 0.5 minutes.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the response scale at the left.

A "-L-" in the sample ID denotes a low level sample. A "-S-" denotes a silica gel cleaned sample.

Hydrocarbon Distribution Report

ALS Sample ID: L1046941-2
Client Sample ID: 1616-121



nC10	nC19	nC32
174°C	330°C	467°C
346°F	626°F	873°F
← Gasoline →	← Motor Oils / Lube Oils / Grease →	
← Diesel / Jet Fuels →		

The EPH Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample. For further interpretation, a current library of reference products is available on www.alsglobal.com or upon request.

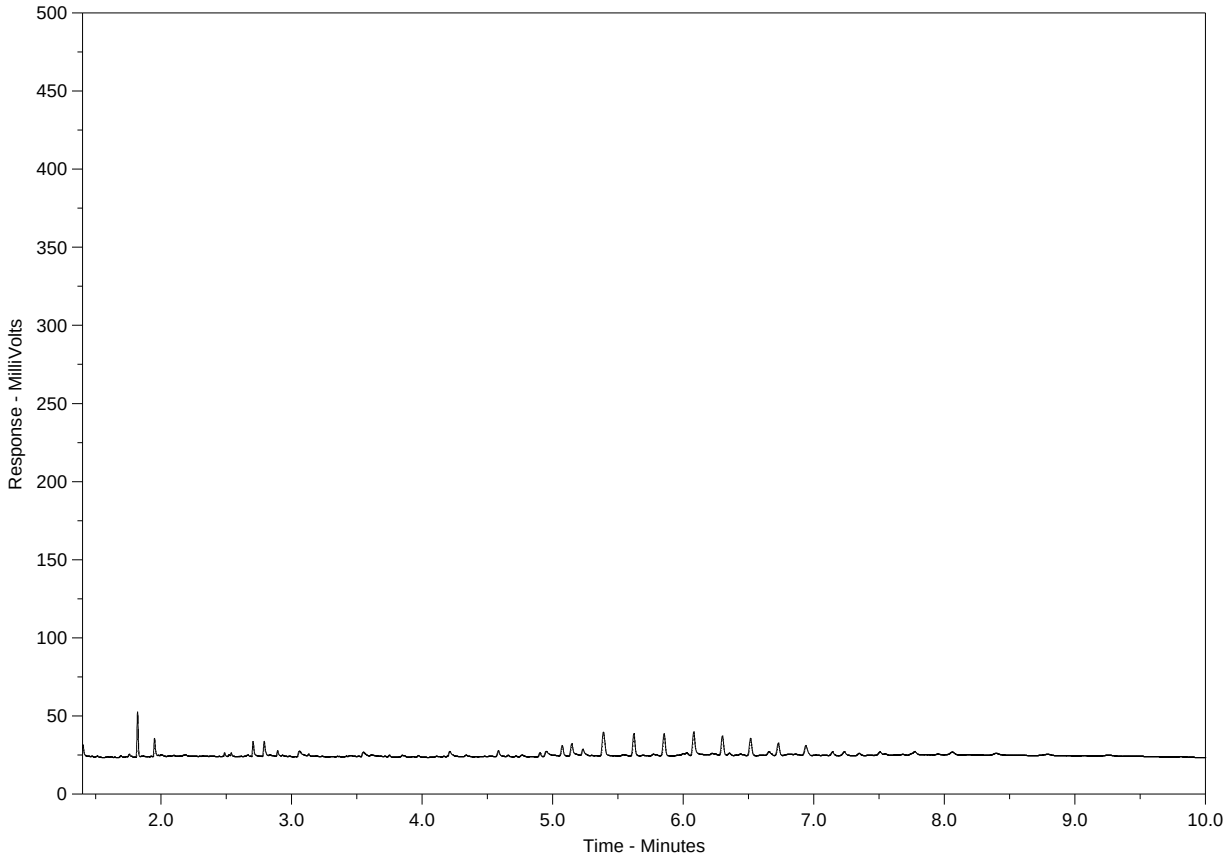
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products, and three n-alkane hydrocarbon marker compounds. Retention times may vary between samples by as much as 0.5 minutes.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the response scale at the left.

A "-L-" in the sample ID denotes a low level sample. A "-S-" denotes a silica gel cleaned sample.

Hydrocarbon Distribution Report

ALS Sample ID: L1046941-3
Client Sample ID: 1616-494



nC10	nC19	nC32
174°C	330°C	467°C
346°F	626°F	873°F
← Gasoline →	← Motor Oils / Lube Oils / Grease →	
← Diesel / Jet Fuels →		

The EPH Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample. For further interpretation, a current library of reference products is available on www.alsglobal.com or upon request.

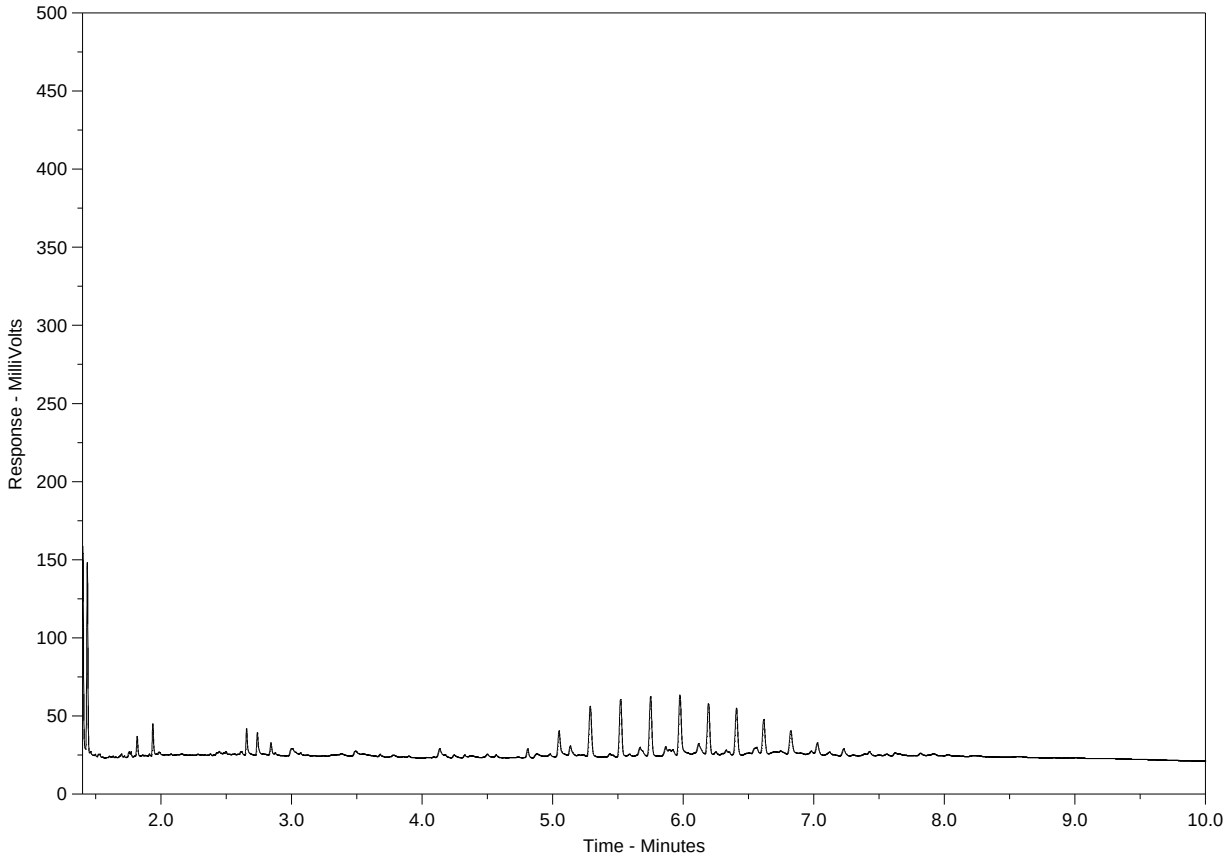
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products, and three n-alkane hydrocarbon marker compounds. Retention times may vary between samples by as much as 0.5 minutes.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the response scale at the left.

A "-L-" in the sample ID denotes a low level sample. A "-S-" denotes a silica gel cleaned sample.

Hydrocarbon Distribution Report

ALS Sample ID: L1046941-4
Client Sample ID: 1616-343



nC10	nC19	nC32
174°C	330°C	467°C
346°F	626°F	873°F
← Gasoline →	← Motor Oils / Lube Oils / Grease →	
← Diesel / Jet Fuels →		

The EPH Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample. For further interpretation, a current library of reference products is available on www.alsglobal.com or upon request.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products, and three n-alkane hydrocarbon marker compounds. Retention times may vary between samples by as much as 0.5 minutes.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the response scale at the left.

A "-L-" in the sample ID denotes a low level sample. A "-S-" denotes a silica gel cleaned sample.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

38259

Form 68606

bhpbilliton

8081 Lougheed Highway • Suite 100 • Burnaby,
Tel: 604-253-4188 Toll Free: 1-800-665-0243 FAX: 604-253-6700
ALS Contact: Can Dang

BHP Billiton Diamonds Inc.
1102 4920 52nd Street, Yellowknife, NT X1A 3T1
Tel: 867-880-2157 Fax: 867-880-4012
BHP Contacts: David Bruce/ Richard EhlertDavid

CHAIN OF CUSTODY FORM

For Lab Use L1046941

FOR LAB USE ONLY

Station ID	Matrix	Date	Time	Init	As, Se By CCMS	BOD5	BTEX	SNP-0013 Major Ions	SNP-0013 Nutrients	SNP-0013 Physical Parameters	SNP-0013 Total Metals	Total Ammonia	Total Organic Carbon	TPH	TSS										
1616-43_Approval	Water	16-Aug-2011	10:45 AM	JP	1	1	1	1	1	1	1	1	1	1	1	BHP20									
1616-121	Water	16-Aug-2011	10:50 AM	JP	1	1	1	1	1	1	1	1	1	1	1	BHP20									
1616-494	Water	16-Aug-2011	10:53 AM	JP	1	1	1	1	1	1	1	1	1	1	1	BHP20									
1616-343	Water	16-Aug-2011	10:54 AM	JP	1	1	1	1	1	1	1	1	1	1	1	BHP20									

L1046941-COFC

Turn around Required: Please Rush Results Analysis - 1 week turnaround

Special Instructions (Billing details, QC reporting, etc):

Billing Code: BHP2001

Relinquished by:	Date / Time	Received by:	Date / Time
Relinquished by:	Date / Time	Received by: RYAN	Date 4/9/18 Time 10:45

FOR LAB USE ONLY

Cooler seal intact upon receipt? ☐ Yes ☐ No ☐ N/A

Sample tempurature upon receipt: 8 C.

Frozen? ☐ Yes ☑ No

Send Analytical Results to:

compliance.team@bhpbilliton.com;

BHP BILLITON CANADA INC..
ATTN: David G. Bruce / Richard Ehlert David
1102 - 4920 52nd Street
Yellowknife NT X1A 3T1

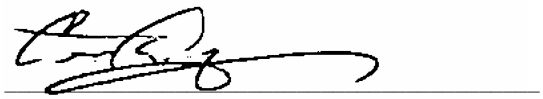
Date Received: 06-SEP-11
Report Date: 16-SEP-11 17:19 (MT)
Version: FINAL

Client Phone: 867-880-2157

Certificate of Analysis

Lab Work Order #: L1054854

Project P.O. #:	BHP2001
Job Reference:	68638
C of C Numbers:	68638
Legal Site Desc:	6200801716



Can Dang
Senior Account Manager

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1054854-1	L1054854-2			
	Description	WATER	WATER			
	Sampled Date	30-AUG-11	30-AUG-11			
	Sampled Time	12:05	12:10			
	Client ID	1616-43_DISCHARGE	1616-342			
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	372	373			
	Hardness (as CaCO3) (mg/L)	153	151			
	pH (pH)	7.69	7.71			
	Total Suspended Solids (mg/L)	6.2	<3.0			
	Turbidity (NTU)	2.01	0.91			
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	33.3	33.1			
	Ammonia (as N) (mg/L)	0.0217	0.0130			
	Chloride (Cl) (mg/L)	7.00	6.96			
	Nitrate and Nitrite (as N) (mg/L)	0.567	0.560			
	Nitrate (as N) (mg/L)	0.561	0.555			
	Nitrite (as N) (mg/L)	0.0052	0.0055			
	Orthophosphate-Dissolved (as P) (mg/L)	<0.0010	<0.0010			
	Phosphorus (P)-Total (mg/L)	0.0130	0.0105			
	Sulfate (SO4) (mg/L)	133	133			
Organic / Inorganic Carbon	Total Carbon (mg/L)	11.7	11.8			
	Total Organic Carbon (mg/L)	5.75	5.82			
Total Metals	Aluminum (Al)-Total (mg/L)	0.148	0.0361			
	Antimony (Sb)-Total (mg/L)	0.00020	0.00021			
	Arsenic (As)-Total (mg/L)	0.00116	0.00109			
	Barium (Ba)-Total (mg/L)	0.0254	0.0250			
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010			
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050			
	Boron (B)-Total (mg/L)	0.016	0.017			
	Cadmium (Cd)-Total (mg/L)	<0.000010	<0.000010			
	Calcium (Ca)-Total (mg/L)	22.3	21.7			
	Chromium (Cr)-Total (mg/L)	0.00066	<0.00050			
	Cobalt (Co)-Total (mg/L)	0.00029	0.00024			
	Copper (Cu)-Total (mg/L)	0.00093	0.00377			
	Iron (Fe)-Total (mg/L)	0.272	0.155			
	Lead (Pb)-Total (mg/L)	0.000054	0.000222			
	Lithium (Li)-Total (mg/L)	0.0124	0.0123			
	Magnesium (Mg)-Total (mg/L)	23.6	23.6			
	Manganese (Mn)-Total (mg/L)	0.0156	0.0142			
	Molybdenum (Mo)-Total (mg/L)	0.0204	0.0211			
	Nickel (Ni)-Total (mg/L)	0.00534	0.00513			
	Potassium (K)-Total (mg/L)	11.9	11.4			

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1054854-1	L1054854-2			
	Description	WATER	WATER			
	Sampled Date	30-AUG-11	30-AUG-11			
	Sampled Time	12:05	12:10			
	Client ID	1616-43_DISCHARGE	1616-342			
Grouping	**Analyte**					
WATER						
Total Metals	Selenium (Se)-Total (mg/L)	0.00053	0.00056			
	Silicon (Si)-Total (mg/L)	0.930	0.708			
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010			
	Sodium (Na)-Total (mg/L)	7.7	7.6			
	Strontium (Sr)-Total (mg/L)	0.248	0.253			
	Thallium (Tl)-Total (mg/L)	<0.000010	<0.000010			
	Tin (Sn)-Total (mg/L)	<0.00010	0.00028			
	Titanium (Ti)-Total (mg/L)	0.013	<0.010			
	Uranium (U)-Total (mg/L)	0.00498	0.00513			
	Vanadium (V)-Total (mg/L)	<0.0010	<0.0010			
	Zinc (Zn)-Total (mg/L)	<0.0030	<0.0030			
Aggregate Organics	Oil and Grease (mg/L)	<5.0	<5.0			
Volatile Organic Compounds	Benzene (mg/L)	<0.00050	<0.00050			
	Ethylbenzene (mg/L)	<0.00050	<0.00050			
	Styrene (mg/L)	<0.00050	<0.00050			
	Toluene (mg/L)	<0.00050	<0.00050			
	ortho-Xylene (mg/L)	<0.00050	<0.00050			
	meta- & para-Xylene (mg/L)	<0.00050	<0.00050			
	Xylenes (mg/L)	<0.00075	<0.00075			
	Surrogate: 4-Bromofluorobenzene (SS) (%)	98	100			
	Surrogate: 1,4-Difluorobenzene (SS) (%)	100	100			
Hydrocarbons	TVH (C5-C10) (mg/L)	<0.10	<0.10			
	TEH10-30 (mg/L)	<0.15	<0.15			
	TPH5-30 (mg/L)	<0.25	<0.25			
Glycols	Diethylene Glycol (mg/L)	<5.0	<5.0			
	Ethylene Glycol (mg/L)	<5.0	<5.0			
	1,2-Propylene Glycol (mg/L)	<5.0	<5.0			

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Laboratory Control Sample	1,2-Propylene Glycol	LCS-ND	L1054854-1, -2
Laboratory Control Sample	Diethylene Glycol	LCS-ND	L1054854-1, -2
Laboratory Control Sample	Ethylene Glycol	LCS-ND	L1054854-1, -2
Method Blank	Barium (Ba)-Total	MB-LOR	L1054854-1, -2

Qualifiers for Individual Parameters Listed:

Qualifier	Description
LCS-ND	Lab Control Sample recovery was slightly outside ALS DQO. Reported non-detect results for associated samples were unaffected.
MB-LOR	Method Blank exceeds ALS DQO. LORs adjusted for samples with positive hits below 5 times blank level. Please contact ALS if re-analysis is required.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2

This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.

ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 B.

This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".

ANIONS-N+N-CALC-VA	Water	Nitrite & Nitrate in Water (Calculation)	EPA 300.0

Nitrate and Nitrite (as N) is a calculated parameter. Nitrate and Nitrite (as N) = Nitrite (as N) + Nitrate (as N).

ANIONS-NO2-IC-VA	Water	Nitrite in Water by Ion Chromatography	EPA 300.0

This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrite is detected by UV absorbance.

ANIONS-NO3-IC-VA	Water	Nitrate in Water by Ion Chromatography	EPA 300.0

This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrate is detected by UV absorbance.

ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 B.

This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".

AS-T-CCMS-VA	Water	Total Arsenic in Water by CRC ICPMS	APHA 3030 B&E / EPA SW-846 6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modifed from EPA Method 6020A).

CARBONS-TC-VA	Water	Total carbon by combustion	APHA 5310 TOTAL ORGANIC CARBON (TOC)

This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".

CARBONS-TOC-VA	Water	Total organic carbon by combustion	APHA 5310 TOTAL ORGANIC CARBON (TOC)

This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".

EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

EPH-LL-SF-FID-VA	Water	EPH in Waters by GCFID	BCMOE EPH GCFID

This analysis is carried out in accordance with the British Columbia Ministry of Environment, Lands and Parks (BCMELP) Analytical Method for Contaminated Sites "Extractable Petroleum Hydrocarbons in Water by GC/FID" (Version 2.1, July 1999). The procedure involves extraction of the entire water sample with dichloromethane. The extract is then solvent exchanged to toluene and analysed by capillary column gas chromatography with flame ionization detection (GC/FID). EPH results include Polycyclic Aromatic Hydrocarbons (PAH) and are therefore not equivalent to Light and Heavy Extractable Petroleum Hydrocarbons (LEPH/HEPH).

GLY-WAT-FID-VA	Water	Glycols in Water by GCFID	SW-846, METHOD 8015B, EPA

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 8015B, published by the United States Environmental Protection Agency (EPA). The procedure involves treatment of the sample with a strong base (NaOH) and benzoyl chloride to form the corresponding benzoate esters. The benzoate esters are then extracted with iso-octane and the extract is analyzed by capillary column gas chromatography with flame ionization detection (FID).

HARDNESS-CALC-VA	Water	Hardness	APHA 2340B

Reference Information

Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.

MET-T-CCMS-VA Water Total Metals in Water by CRC ICPMS APHA 3030 B&E / EPA SW-846 6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modifed from EPA Method 6020A).

MET-TOT-ICP-VA Water Total Metals in Water by ICPOES EPA SW-846 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

NH3-F-VA Water Ammonia in Water by Fluorescence J. ENVIRON. MONIT., 2005, 7, 37-42, RSC

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.

OGG-SF-VA Water Oil & Grease by Gravimetric BCMOE (2010), EPA1664A

The procedure involves an extraction of the entire water sample with hexane. This extract is then evaporated to dryness, and the residue weighed to determine Oil and Grease.

P-T-COL-VA Water Total P in Water by Colour APHA 4500-P Phosphorous

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.

PH-PCT-VA Water pH by Meter (Automated) APHA 4500-H "pH Value"

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

It is recommended that this analysis be conducted in the field.

PH-PCT-VA Water pH by Meter (Automated) APHA 4500-H pH Value

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

It is recommended that this analysis be conducted in the field.

PO4-DO-COL-VA Water Diss. Orthophosphate in Water by Colour APHA 4500-P Phosphorous

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Dissolved Orthophosphate is determined colourimetrically on a sample that has been lab or field filtered through a 0.45 micron membrane filter.

SE-T-CCMS-VA Water Total Selenium in Water by CRC ICPMS APHA 3030 B&E / EPA SW-846 6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modifed from EPA Method 6020A).

TSS-VA Water Total Suspended Solids by Gravimetric APHA 2540 D - GRAVIMETRIC

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.

TURBIDITY-VA Water Turbidity by Meter APHA 2130 "Turbidity"

This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.

TURBIDITY-VA Water Turbidity by Meter APHA 2130 Turbidity

This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.

TVH-HSFID-VA Water TVH by headspace GCFID EPA 8260B, BCMELP CSR METHOD

This procedure involves the headspace extraction of the sample prior to analysis for Volatile Hydrocarbons (VH) by capillary column gas chromatography with flame-ionization detection (GC/FID). The VH analysis is carried out in accordance with the British Columbia Ministry of Environment, Lands and Parks (BCMELP) Analytical Method for Contaminated Sites "Volatile Hydrocarbons in Water by GC/FID" (Version 2.1, July 1999).

VOC7-HSMS-VA Water BTEX/MTBE/Styrene by Headspace GCMS EPA8260B, 5021

The water sample, with added reagents, is heated in a sealed vial to equilibrium. The headspace from the vial is transfered into a gas chromatograph.

Reference Information

Target compound concentrations are measured using mass spectrometry detection.

VOC7/VOC-SURR-MS-VA	Water	VOC7 and/or VOC Surrogates for Waters	EPA8260B, 5021
XYLENES-CALC-VA	Water	Sum of Xylene Isomer Concentrations	CALCULATION

Calculation of Total Xylenes

Total Xylenes is the sum of the concentrations of the ortho, meta, and para Xylene isomers. Results below detection limit (DL) are treated as zero. The DL for Total Xylenes is set to a value no less than the square root of the sum of the squares of the DLs of the individual Xylenes.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BC, CANADA

Chain of Custody Numbers:

68638

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.
mg/kg - milligrams per kilogram based on dry weight of sample.
mg/kg wwt - milligrams per kilogram based on wet weight of sample.
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.
mg/L - milligrams per litre.
< - Less than.
D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

L1054854

Form 68638

bhpbilliton

BHP Billiton Diamonds Inc.
1102 4920 52nd Street, Yellowknife, NT X1A 3T1
Tel: 867-880-2157 Fax: 867-880-4012
BHP Contacts: David Bruce/ Richard EhlertDavid

L1D54854-COFC

-253-6700

CHAIN OF CUSTODY FORM

For Lab Use

FOR LAB USE ONLY

Station ID	Matrix	Date	Time	Init	As, Se By CCMS	BTEX-TVH	Glycols	Oil and Grease	SNP-0013 Major Ions	SNP-0013 Nutrients	SNP-0013 Physical Parameters	SNP-0013 Total Metals	Total Ammonia	Total Organic Carbon	TPH	TSS	
1616-43_Discharge	Water	30-Aug-2011	12:05 PM	LC	1	1	1	1	1	1	1	1	1	1	1	1	BHP2
1616-342	Water	30-Aug-2011	12:10 PM	LC	1	1	1	1	1	1	1	1	1	1	1	1	BHP2

Turn around Required:

Special Instructions (Billing details, QC reporting, etc):

Billing Code: BHP2001

Relinquished by:	Date / Time	Received by:	Date / Time
Relinquished by:	Date / Time	Received by:	Date / Time
		[signature]	SEP 6 2:45

FOR LAB USE ONLY

Cooler seal intact upon receipt? ☑ Yes ☐ No ☐ N/A

Sample tempurature upon receipt: 8° C.

Frozen? ☐ Yes ☑ No

Send Analytical Results to:

compliance.team@bhpbilliton.com;

BHP BILLITON CANADA INC..
ATTN: David G. Bruce / Richard Ehlert David
1102 - 4920 52nd Street
Yellowknife NT X1A 3T1

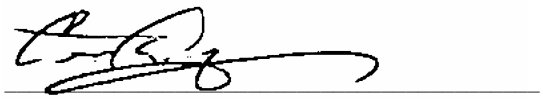
Date Received: 14-SEP-11
Report Date: 29-SEP-11 18:40 (MT)
Version: FINAL

Client Phone: 867-880-2157

Certificate of Analysis

Lab Work Order #: L1058120

Project P.O. #:	BHP2001
Job Reference:	68659
C of C Numbers:	68659
Legal Site Desc:	6200801716



Can Dang
Senior Account Manager

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1058120-1				
	Description	WATER				
	Sampled Date	10-SEP-11				
	Sampled Time	15:30				
	Client ID	1616-43_DISCHARGE				
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	400				
	Hardness (as CaCO3) (mg/L)	166				
	pH (pH)	7.83				
	Total Suspended Solids (mg/L)	<3.0				
	Turbidity (NTU)	0.88				
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	33.9				
	Ammonia (as N) (mg/L)	0.0105				
	Chloride (Cl) (mg/L)	7.71				
	Nitrate and Nitrite (as N) (mg/L)	0.605				
	Nitrate (as N) (mg/L)	0.601				
	Nitrite (as N) (mg/L)	0.0036				
	Orthophosphate-Dissolved (as P) (mg/L)	<0.0010				
	Phosphorus (P)-Total (mg/L)	0.0083				
	Sulfate (SO4) (mg/L)	145				
Organic / Inorganic Carbon	Total Carbon (mg/L)	11.2				
	Total Organic Carbon (mg/L)	5.27				
Total Metals	Aluminum (Al)-Total (mg/L)	0.0291				
	Antimony (Sb)-Total (mg/L)	0.00022				
	Arsenic (As)-Total (mg/L)	0.00113				
	Barium (Ba)-Total (mg/L)	0.0250				
	Beryllium (Be)-Total (mg/L)	<0.00010				
	Bismuth (Bi)-Total (mg/L)	<0.00050				
	Boron (B)-Total (mg/L)	0.018				
	Cadmium (Cd)-Total (mg/L)	0.000011				
	Calcium (Ca)-Total (mg/L)	23.8				
	Chromium (Cr)-Total (mg/L)	<0.00050				
	Cobalt (Co)-Total (mg/L)	0.00020				
	Copper (Cu)-Total (mg/L)	0.00250				
	Iron (Fe)-Total (mg/L)	0.141				
	Lead (Pb)-Total (mg/L)	0.000145				
	Lithium (Li)-Total (mg/L)	0.0102				
	Magnesium (Mg)-Total (mg/L)	26.0				
	Manganese (Mn)-Total (mg/L)	0.0171				
	Molybdenum (Mo)-Total (mg/L)	0.0216				
	Nickel (Ni)-Total (mg/L)	0.00518				
	Potassium (K)-Total (mg/L)	14.1				

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1058120-1				
	Description	WATER				
	Sampled Date	10-SEP-11				
	Sampled Time	15:30				
	Client ID	1616-43_DISCHARGE				
Grouping	**Analyte**					
WATER						
Total Metals	Selenium (Se)-Total (mg/L)	0.00081				
	Silicon (Si)-Total (mg/L)	0.32				
	Silver (Ag)-Total (mg/L)	<0.000010				
	Sodium (Na)-Total (mg/L)	9.2				
	Strontium (Sr)-Total (mg/L)	0.302				
	Thallium (Tl)-Total (mg/L)	<0.000010				
	Tin (Sn)-Total (mg/L)	0.0351				
	Titanium (Ti)-Total (mg/L)	<0.020				
	Uranium (U)-Total (mg/L)	0.00476				
	Vanadium (V)-Total (mg/L)	<0.0010				
	Zinc (Zn)-Total (mg/L)	0.0034				
Aggregate Organics	Oil and Grease (mg/L)	<5.0				
Volatile Organic Compounds	Benzene (mg/L)	<0.00050				
	Ethylbenzene (mg/L)	<0.00050				
	Styrene (mg/L)	<0.00050				
	Toluene (mg/L)	<0.00050				
	ortho-Xylene (mg/L)	<0.00050				
	meta- & para-Xylene (mg/L)	<0.00050				
	Xylenes (mg/L)	<0.00075				
	Surrogate: 4-Bromofluorobenzene (SS) (%)	95				
	Surrogate: 1,4-Difluorobenzene (SS) (%)	99				
Hydrocarbons	TVH (C5-C10) (mg/L)	<0.10				
	TEH10-30 (mg/L)	<0.15				
	TPH5-30 (mg/L)	<0.25				
Glycols	Diethylene Glycol (mg/L)	<5.0				
	Ethylene Glycol (mg/L)	<5.0				
	1,2-Propylene Glycol (mg/L)	<5.0				

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Laboratory Control Sample	Diethylene Glycol	LCS-H	L1058120-1
Matrix Spike	Nitrate (as N)	MS-B	L1058120-1
Matrix Spike	Total Organic Carbon	MS-B	L1058120-1

Qualifiers for Individual Parameters Listed:

Qualifier	Description
LCS-H	Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2

This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.

ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 B.

This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".

ANIONS-N+N-CALC-VA	Water	Nitrite & Nitrate in Water (Calculation)	EPA 300.0

Nitrate and Nitrite (as N) is a calculated parameter. Nitrate and Nitrite (as N) = Nitrite (as N) + Nitrate (as N).

ANIONS-NO2-IC-VA	Water	Nitrite in Water by Ion Chromatography	EPA 300.0

This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrite is detected by UV absorbance.

ANIONS-NO3-IC-VA	Water	Nitrate in Water by Ion Chromatography	EPA 300.0

This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrate is detected by UV absorbance.

ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 B.

This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".

AS-T-CCMS-VA	Water	Total Arsenic in Water by CRC ICPMS	APHA 3030 B&E / EPA SW-846 6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modifed from EPA Method 6020A).

CARBONS-TC-VA	Water	Total carbon by combustion	APHA 5310 TOTAL ORGANIC CARBON (TOC)

This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".

CARBONS-TOC-VA	Water	Total organic carbon by combustion	APHA 5310 TOTAL ORGANIC CARBON (TOC)

This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".

EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

EPH-LL-SF-FID-VA	Water	EPH in Waters by GCFID	BCMOE EPH GCFID

This analysis is carried out in accordance with the British Columbia Ministry of Environment, Lands and Parks (BCMELP) Analytical Method for Contaminated Sites "Extractable Petroleum Hydrocarbons in Water by GC/FID" (Version 2.1, July 1999). The procedure involves extraction of the entire water sample with dichloromethane. The extract is then solvent exchanged to toluene and analysed by capillary column gas chromatography with flame ionization detection (GC/FID). EPH results include Polycyclic Aromatic Hydrocarbons (PAH) and are therefore not equivalent to Light and Heavy Extractable Petroleum Hydrocarbons (LEPH/HEPH).

GLY-WAT-FID-VA	Water	Glycols in Water by GCFID	SW-846, METHOD 8015B, EPA

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 8015B, published by the United States Environmental Protection Agency (EPA). The procedure involves treatment of the sample with a strong base (NaOH) and benzoyl chloride to form the corresponding benzoate esters. The benzoate esters are then extracted with iso-octane and the extract is analyzed by capillary column gas chromatography with flame ionization detection (FID).

HARDNESS-CALC-VA	Water	Hardness	APHA 2340B

Reference Information

Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.

MET-T-CCMS-VA Water Total Metals in Water by CRC ICPMS APHA 3030 B&E / EPA SW-846 6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modifed from EPA Method 6020A).

MET-TOT-ICP-VA Water Total Metals in Water by ICPOES EPA SW-846 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

NH3-F-VA Water Ammonia in Water by Fluorescence J. ENVIRON. MONIT., 2005, 7, 37-42, RSC

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.

OGG-SF-VA Water Oil & Grease by Gravimetric BCMOE (2010), EPA1664A

The procedure involves an extraction of the entire water sample with hexane. This extract is then evaporated to dryness, and the residue weighed to determine Oil and Grease.

P-T-COL-VA Water Total P in Water by Colour APHA 4500-P Phosphorous

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.

PH-PCT-VA Water pH by Meter (Automated) APHA 4500-H "pH Value"

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

It is recommended that this analysis be conducted in the field.

PH-PCT-VA Water pH by Meter (Automated) APHA 4500-H pH Value

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

It is recommended that this analysis be conducted in the field.

PO4-DO-COL-VA Water Diss. Orthophosphate in Water by Colour APHA 4500-P Phosphorous

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Dissolved Orthophosphate is determined colourimetrically on a sample that has been lab or field filtered through a 0.45 micron membrane filter.

SE-T-CCMS-VA Water Total Selenium in Water by CRC ICPMS APHA 3030 B&E / EPA SW-846 6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modifed from EPA Method 6020A).

TSS-VA Water Total Suspended Solids by Gravimetric APHA 2540 D - GRAVIMETRIC

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.

TURBIDITY-VA Water Turbidity by Meter APHA 2130 "Turbidity"

This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.

TURBIDITY-VA Water Turbidity by Meter APHA 2130 Turbidity

This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.

TVH-HSFID-VA Water TVH by headspace GCFID EPA 8260B, BCMELP CSR METHOD

This procedure involves the headspace extraction of the sample prior to analysis for Volatile Hydrocarbons (VH) by capillary column gas chromatography with flame-ionization detection (GC/FID). The VH analysis is carried out in accordance with the British Columbia Ministry of Environment, Lands and Parks (BCMELP) Analytical Method for Contaminated Sites "Volatile Hydrocarbons in Water by GC/FID" (Version 2.1, July 1999).

VOC7-HSMS-VA Water BTEX/MTBE/Styrene by Headspace GCMS EPA8260B, 5021

The water sample, with added reagents, is heated in a sealed vial to equilibrium. The headspace from the vial is transfered into a gas chromatograph.

Reference Information

Target compound concentrations are measured using mass spectrometry detection.

VOC7/VOC-SURR-MS-VA	Water	VOC7 and/or VOC Surrogates for Waters	EPA8260B, 5021
XYLENES-CALC-VA	Water	Sum of Xylene Isomer Concentrations	CALCULATION

Calculation of Total Xylenes

Total Xylenes is the sum of the concentrations of the ortho, meta, and para Xylene isomers. Results below detection limit (DL) are treated as zero. The DL for Total Xylenes is set to a value no less than the square root of the sum of the squares of the DLs of the individual Xylenes.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BC, CANADA

Chain of Custody Numbers:

68659

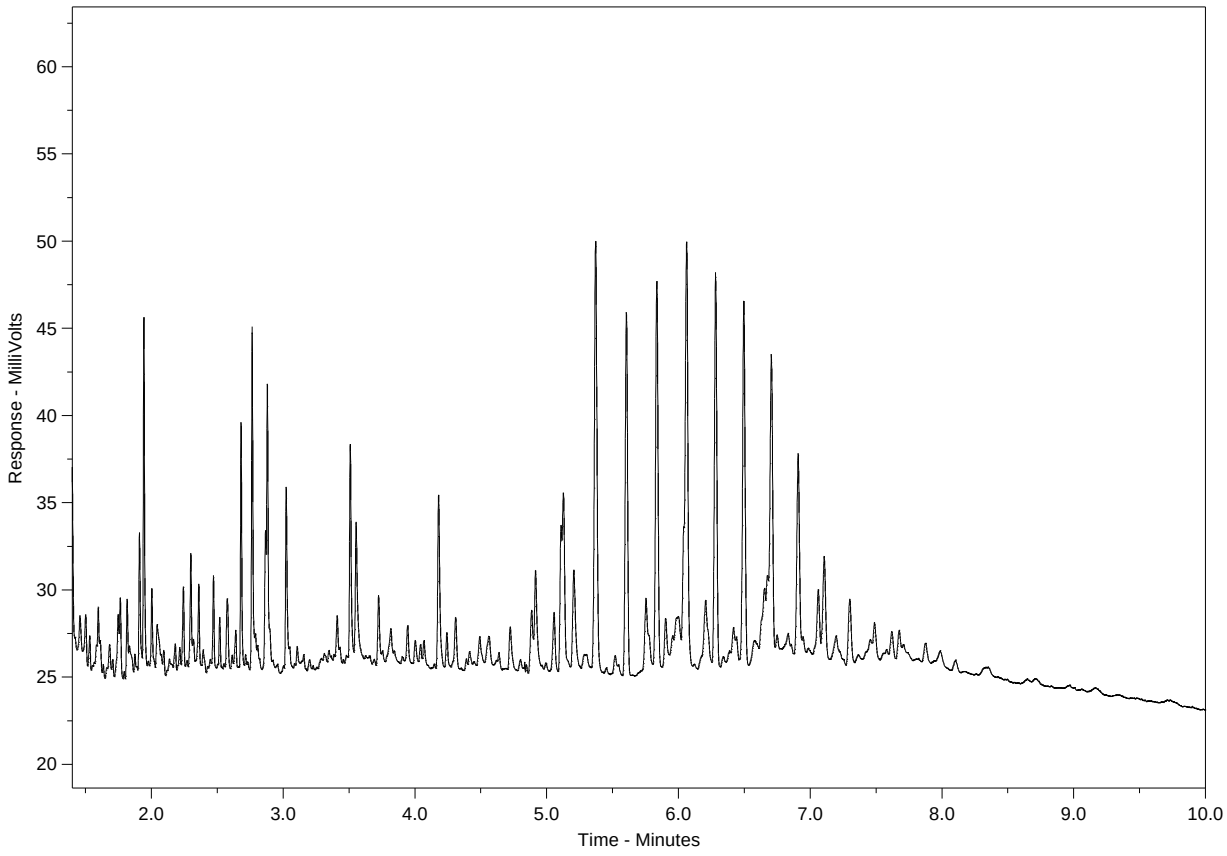
GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.
mg/kg - milligrams per kilogram based on dry weight of sample.
mg/kg wwt - milligrams per kilogram based on wet weight of sample.
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.
mg/L - milligrams per litre.
< - Less than.
D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Hydrocarbon Distribution Report

ALS Sample ID: L1058120-1
Client Sample ID: 1616-43_DISCHARGE



nC10	nC19	nC32
174°C	330°C	467°C
346°F	626°F	873°F
← Gasoline →	← Motor Oils / Lube Oils / Grease →	
← Diesel / Jet Fuels →		

The EPH Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample. For further interpretation, a current library of reference products is available on www.alsglobal.com or upon request.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products, and three n-alkane hydrocarbon marker compounds. Retention times may vary between samples by as much as 0.5 minutes.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the response scale at the left.

A "-L-" in the sample ID denotes a low level sample. A "-S-" denotes a silica gel cleaned sample.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

SO # 40086

Form 68659

bhpbilliton

L1058120

8081 Lougheed Highway • Suite 100 • Burnaby,
Tel: 604-253-4188 Toll Free: 1-800-665-0243 FAX: 604-253-6700
ALS Contact: Can Dang

BHP Billiton Diamonds Inc.
1102 4920 52nd Street, Yellowknife, NT X1A 3T1
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CHAIN OF CUSTODY FORM

For Lab Use

FOR LAB USE ONLY

Station ID	Matrix	Date	Time	Init	As, Se By CCMS	BTEX-TVH	Glycols	Oil and Grease	SNP-0013 Major Ions	SNP-0013 Nutrients	SNP-0013 Physical Parameters	SNP-0013 Total Metals	Total Ammonia	Total Organic Carbon	TPH	TSS						
1616-43_Discharge	Water	10-Sep-2011	03:30 PM	CK	1	1	1	1	1	1	1	1	1	1	1	1	BHP2					

L1058120-COFC

Turn around Required: 1 week RUSH TAT please

Special Instructions (Billing details, QC reporting, etc):

Billing Code: BHP2001

Relinquished by:	Date / Time	Received by	Date / Time
PE	11 Sept 2011 / 14:10hrs	Bnff	Sept. 14 / 10:15
Relinquished by:	Date / Time	Received by:	Date / Time

FOR LAB USE ONLY

Cooler seal intact upon receipt? ☐ Yes ☐ No ☐ N/A

Sample tempurature upon receipt: 15 C.

Frozen? ☐ Yes ☐ No

Send Analytical Results to:

compliance.team@bhpbilliton.com;