



CATION / ANION ANALYSIS

Hubbell 10 API # 3004521391

Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Braden Head	Date Reported:	08/23/11
Laboratory Number:	59349	Date Sampled:	08/22/11
Chain of Custody:	12403	Date Received:	08/22/11
Sample Matrix:	Aqueous	Date Analyzed:	08/23/11
Preservative:			
Condition:	Intact		

Parameter	Analytical Result	Units	
pH	6.44	s.u.	
Conductivity @ 25° C	4,350	umhos/cm	RCVD DEC 1 '11
Total Dissolved Solids @ 180C	3,820	mg/L	OIL CONS. DIV.
Total Dissolved Solids (Calc)	3,270	mg/L	
SAR	10.4	ratio	DIST. 3
Total Alkalinity as CaCO3	100	mg/L	
Total Hardness as CaCO3	850	mg/L	
Bicarbonate as CaCO3	100	mg/L	1.64 meq/L
Carbonate as CaCO3	< 0.01	mg/L	0.000 meq/L
Hydroxide as CaCO3	< 0.01	mg/L	0.001 meq/L
Nitrate Nitrogen	1.00	mg/L	0.016 meq/L
Nitrite Nitrogen	0.002	mg/L	0.000 meq/L
Chloride	85.0	mg/L	2.40 meq/L
Fluoride	3.40	mg/L	0.179 meq/L
Phosphate	0.800	mg/L	0.025 meq/L
Sulfate	2,080	mg/L	43.3 meq/L
Iron	7.35	mg/L	0.263 meq/L
Calcium	315	mg/L	15.7 meq/L
Magnesium	15.2	mg/L	1.25 meq/L
Potassium	13.2	mg/L	0.338 meq/L
Sodium	696	mg/L	30.3 meq/L
Cations			47.6 meq/L
Anions			47.6 meq/L
Cation/Anion Difference			0.00%

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments Hubbell #10 (CH)

Analyst
Review

CHAIN OF CUSTODY RECORD

12403

Client: COPC			Project Name / Location: Hubbell #10 (CH)			ANALYSIS / PARAMETERS																																															
Client Address:			Sampler Name: Marvin Charley			<table border="1"> <tr> <th>TPH (Method 8015)</th> <th>BTEX (Method 8021)</th> <th>VOC (Method 8260)</th> <th>RCRA 8 Metals</th> <th>Cation / Anion</th> <th>RCI</th> <th>TCLP with H/P</th> <th>PAH</th> <th>TPH (418.1)</th> <th>CHLORIDE</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Sample Cool</th> <th>Sample Intact</th> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>														TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE						Sample Cool	Sample Intact																	
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Client Phone No.:			Client No.: 96052-1706																																																		
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative																																															
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