

**CATION / ANION ANALYSIS**

API # 3004524311

Garrett Federal Com 2 * 1E

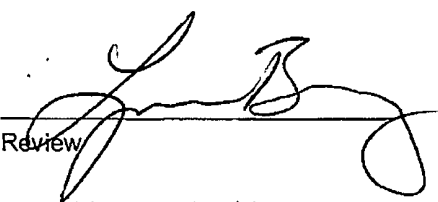
Client: ConocoPhillips
Sample ID: Braden Head
Laboratory Number: 59209
Chain of Custody: 12315
Sample Matrix: Aqueous
Preservative: Cool
Condition: Intact

Project #: 96052-1706
Date Reported: 08/13/11
Date Sampled: 08/09/11
Date Received: 08/09/11
Date Analyzed: 08/10/11

Parameter	Analytical Result	Units		
pH	9.56	s.u.		
Conductivity @ 25° C	5,650	umhos/cm	RCVD DEC 1 '11	
Total Dissolved Solids @ 180C	3,930	mg/L	OIL CONS. DIV.	
Total Dissolved Solids (Calc)	4,160	mg/L	DIST. 3	
SAR	18.7	ratio		
Total Alkalinity as CaCO3	210	mg/L		
Total Hardness as CaCO3	630	mg/L		
Bicarbonate as CaCO3	210	mg/L	3.44	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	2.18	mg/L	0.035	meq/L
Nitrite Nitrogen	0.006	mg/L	0.000	meq/L
Chloride	50.0	mg/L	1.41	meq/L
Fluoride	5.53	mg/L	0.291	meq/L
Phosphate	10.5	mg/L	0.332	meq/L
Sulfate	2,620	mg/L	54.5	meq/L
Iron	0.376	mg/L	0.013	meq/L
Calcium	251	mg/L	12.5	meq/L
Magnesium	0.724	mg/L	0.060	meq/L
Potassium	16.6	mg/L	0.425	meq/L
Sodium	1,080	mg/L	47.0	meq/L
Cations			60.0	meq/L
Anions			60.1	meq/L
Cation/Anion Difference			0.12%	

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: **Garrett Federal Com #2-1E**


Analyst
Review

CHAIN OF CUSTODY RECORD

12315

Client: CONOCO PHILLIPS			Project Name / Location: GARRETT FEDERAL Com # 2-1E			ANALYSIS / PARAMETERS																	
Client Address: 5525 Hwy 64, FARM.			Sampler Name: DON THOMPSON																				
Client Phone No.: 326-9724			Client No.: 96052-1706																				
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	PCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Bradfordhead	8-9-11	1:10 P.M.	59209	Soil Sludge Aqueous	2.500 mL									X								Y	Y
				Soil Sludge Aqueous																			
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Relinquished by: (Signature) <i>Don Thompson</i>				Date 8-9-11	Time 3:11 PM	Received by: (Signature) <i>Randi Vazquez</i>				Date 9/9/11				Time 3:11 PM									
Relinquished by: (Signature)						Received by: (Signature)																	
Relinquished by: (Signature)						Received by: (Signature)																	

Send RESULTS TO **Kody.L.Martin@CONOCO PHILLIPS.com**



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