



envirotech

Analytical Laboratory

CATION / ANION ANALYSIS

Mangum, 4

API # 3004507809

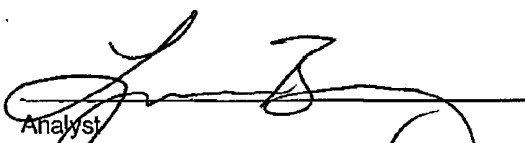
Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Braden Head	Date Reported:	08-16-11
Laboratory Number:	59266	Date Sampled:	08-15-11
Chain of Custody:	12360	Date Received:	08-15-11
Sample Matrix:	Aqueous	Date Analyzed:	08-16-11
Preservative:	Cool		
Condition:	Intact		

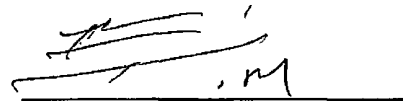
Parameter	Analytical Result	Units		
pH	8.75	s.u.		
Conductivity @ 25° C	4,870	umhos/cm		
Total Dissolved Solids @ 180C	11,600	mg/L	RCVD DEC 1 '11	
Total Dissolved Solids (Calc)	4,180	mg/L	OIL CONS. DIV.	
SAR	13.9	ratio	DIST. 3	
Total Alkalinity as CaCO3	170	mg/L		
Total Hardness as CaCO3	957	mg/L		
Bicarbonate as CaCO3	170	mg/L	2.8	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	0.766	mg/L	0.012	meq/L
Nitrite Nitrogen	0.006	mg/L	0.000	meq/L
Chloride	465	mg/L	13	meq/L
Fluoride	0.573	mg/L	0.030	meq/L
Phosphate	0.200	mg/L	0.006	meq/L
Sulfate	2,230	mg/L	46.43	meq/L
Iron	< 0.01	mg/L	0.000	meq/L
Calcium	369	mg/L	18	meq/L
Magnesium	8.32	mg/L	1	meq/L
Potassium	12.8	mg/L	0.3	meq/L
Sodium	988	mg/L	43	meq/L
Cations			62	meq/L
Anions			62	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 **Mangum #4**


Analyst


Review

CHAIN OF CUSTODY RECORD RUSH 12360

Client: COPC			Project Name / Location: Mangum #4			ANALYSIS / PARAMETERS														
Client Address:			Sampler Name:			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	
Client Phone No.:			Client No.: 96052-1706																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl ₂ HCl														
Braden Head	8/15/11	10:00	59266	Soil Sludge Solid Aqueous																
				Soil Sludge Solid Aqueous																
				Soil Sludge Solid Aqueous																
				Soil Sludge Solid Aqueous																
				Soil Sludge Solid Aqueous																
				Soil Sludge Solid Aqueous																
				Soil Sludge Solid Aqueous																
				Soil Sludge Solid Aqueous																
				Soil Sludge Solid Aqueous																
				Soil Sludge Solid Aqueous																
				Soil Sludge Solid Aqueous																
Relinquished by: (Signature) Chris Kalle					Date	Time	Received by: (Signature) Randy Vaguera					Date	Time							
					8-15-11	3:45p						8/15/11	3:45							
Relinquished by: (Signature)							Received by: (Signature)													
Relinquished by: (Signature)							Received by: (Signature)													

~~A06540~~ RUSH

A065240

CADANA

envirotech
Analytical Laboratory

5796 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • lab@envirotech-inc.com