

Accutest Mountain States			Jul 05, 2011 15:06 pm	
Job Number:		D24580		
Account:		Olsson Associates		
Project:		Delta 2B Cuttings		
Project Number:		PO#011-1313		
Legend:			Hit	Exceed
Client Sample ID:		CO Soil - Oil and Gas Conservation Commission Levels (2 CCR 404-1 9/30/07) ¹	DELTA 2B SS1	DELTA 2B SS1
Lab Sample ID:			D24580-1	D24580-1A
Date Sampled:			06/17/2011	06/17/2011
Matrix:			Soil	Soil
GC/MS Volatiles (SW846 8260B)				
Benzene	ug/kg	170	ND (32)	-
Toluene	ug/kg	85000	ND (73)	-
Ethylbenzene	ug/kg	100000	310	-
Xylene (total)	ug/kg	175000	ND (150)	-
GC/MS Semi-volatiles (SW846 8270C BY SIM)				
Acenaphthene	ug/kg	1000000	ND (160)	-
Anthracene	ug/kg	1000000	ND (190)	-
Benzo(a)anthracene	ug/kg	220	ND (270)	-
Benzo(a)pyrene	ug/kg	22	ND (370)	-
Benzo(b)fluoranthene	ug/kg	220	ND (380)	-
Benzo(k)fluoranthene	ug/kg	2200	ND (230)	-
Chrysene	ug/kg	22000	ND (230)	-
Dibenzo(a,h)anthracene	ug/kg	22	ND (380)	-
Fluoranthene	ug/kg	1000000	ND (210)	-
Fluorene	ug/kg	1000000	ND (170)	-
Indeno(1,2,3-cd)pyrene	ug/kg	220	ND (570)	-
Naphthalene	ug/kg	23000	ND (200)	-
Pyrene	ug/kg	1000000	ND (200)	-
GC Volatiles (SW846 8015B)				
TPH-GRO (C6-C10)	mg/kg	500	ND (7.3)	-
GC Semi-volatiles (SW846-8015B)				
TPH-DRO (C10-C28)	mg/kg	500	250	-
Metals Analysis				
Arsenic	mg/kg	0.39	1.8	-
Barium	mg/kg	15000	5670	-
Cadmium	mg/kg	70	<1.2	-
Calcium	mg/l	-	-	73.5
Chromium	mg/kg	-	13.1	-
Copper	mg/kg	3100	21.1	-
Lead	mg/kg	400	10	-
Magnesium	mg/l	-	-	1.43
Mercury	mg/kg	23	<0.12	-
Nickel	mg/kg	1600	17.9	-
Selenium	mg/kg	390	<61 ^a	-
Silver	mg/kg	390	<3.6	-
Sodium	mg/l	-	-	130
Zinc	mg/kg	23000	46.3	-
General Chemistry				
Chromium, Hexavalent	mg/kg	23	<0.49 ^b	-
Chromium, Trivalent	mg/kg	120000	12.7 ^c	-
Redox Potential Vs H2	mv	-	365	-
Sodium Adsorption Ratio	ratio	12	-	4.10 ^d
Solids, Percent	%	-	80.9	-
Specific Conductivity	umhos/cm	4000	975	-
pH	su	09-Jun	9.85	-
Footnotes:				
^a Elevated detection limit due to dilution required for possible matrix interference.				
^b Analysis performed at Accutest Laboratories, Marlborough, MA.				
^c Calculated as: (Chromium) - (Chromium, Hexavalent)				
^d Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+(Mg meq/L)/2]				
Regulatory limits listed in this document have been obtained from the latest version of the regulations cited and are used for advisory purposes only. Accutest assumes no responsibility for errors in regulatory documents or changes to criteria detailed in later versions of the referenced regulation. It is the responsibility of the user to verify these limits before using or reporting any data.				
2 results exceeded regulatory criteria.				
¹ NOTE: The criteria for Specific Conductivity is 4000 umhos/cm OR 2 x background, which must be determined by the user manually.				