

Soil Analytical Summary - 29-B Analyses

Harold J. Guidry et al. v. BP America Production Company, et al. Sections 71, 72 & 73, Township 09 South, Range 05 East Anse La Butte Oil and Gas Field, St. Martin Parish, Louisiana HET Project No. 1009.A34

Table 1 Page 4 of 12

Table with columns for Sample ID/Depth, Sample Date, Sampler, Salinity (Chloride, EC, ESP, SAR, Calcium, Magnesium, Sodium, SPLP Sodium, CEC, Bicarbonate, Sulfate), O&G (Oil & Grease), Metals (Total Arsenic, SPLP Arsenic, Total Barium, True Total Barium, SPLP Barium, Total Cadmium, Total Chromium, Total Lead, Total Mercury, Total Selenium, Total Silver, Total Strontium, Total Zinc), and Additional Parameters (Saturation %, pH, % Moisture).

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Table 1
 Page 12 of 12

Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													O&G	Metals (HET Results Reported on Wet Weight, ICON Results Reported on Dry Weight)													Additional Parameters				
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Bicarbonate (as CaCO3)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture		
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	29B	1312	29B	2320B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G
			meq/L	mg/L	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	mg/Kg	meq/L	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	4	<12	<14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40,000	N/A	10	500	500	10	10	200	N/A	500	N/A	'6-9	N/A		
LDEQ Standards ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A		
SB-17 (0-1)	12/14/16	MP&A	—	—	—	—	16.3	20	0.877	0.478	16.5	—	14.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	58.7	6.22	18.7
SB-17 (1-2)	12/14/16	MP&A	—	—	—	—	12.9	33.3	1.77	1.21	40.7	—	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	65.6	5.51	18.6
SB-17 (2-3)	12/14/16	MP&A	—	—	—	—	11	31.3	2.71	1.98	48	—	22.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	63.8	5.83	19.1
SB-18 (0-1)	12/14/16	MP&A	—	—	—	—	0.975	1.02	1.07	0.479	0.899	—	15.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	57.7	5.65	18.7
SB-18 (1-2)	12/14/16	MP&A	—	—	—	—	3.31	3.97	0.546	0.317	2.61	—	22.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	62.6	6.65	15
SB-18 (2-3)	12/14/16	MP&A	—	—	—	—	4.46	7	1.7	1.16	8.37	—	19.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	70.4	6.33	17	
SB-19 (0-1)	12/14/16	MP&A	—	—	—	—	1.19	2.04	0.921	0.392	1.65	—	21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	61.2	4.97	18.5
SB-19 (1-2)	12/14/16	MP&A	—	—	—	—	2.07	1.86	1.61	0.442	1.88	—	21.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60.7	5.03	16.6
SB-19 (2-3)	12/14/16	MP&A	—	—	—	—	2.47	3.55	1.37	0.96	3.83	—	18.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	61.4	5.77	14.7
Maximum	N/A	N/A	160	7120	248	22.7	36.2	44.9	27.8	12.5	107	216	50.4	9.1	6.07	0.3	16.8	N/A	3440	5730	N/A	1.32	32.1	82	19.587	0.66	<1.25	210	128	129	8.67	28.2		
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	4	<12	<14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40,000	N/A	10	500	500	10	10	200	N/A	500	N/A	'6-9	N/A		
LDEQ Standards ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A		

1 - LDNR Statewide Order 29-B standards for Upland listed for reference purposes only
 2 - RECAP Non-Industrial Screening Standards per Table 1 of RECAP for comparison purposes only
 3 - SPLP standard determined by EPA Water Advisory Limit or RECAP Groundwater Screening Standard multiplied by a default attenuation factor of 20 in accordance with RECAP guidelines
 4 - RECAP screening standard per Table 1, Non-Industrial standard only based on SPLP results that eliminate soil to groundwater pathway
 * - 29-B Leachate Chloride analysis instead of SPLP Chloride analysis
 mg/Kg - milligrams per Kilogram
 mg/L - milligrams per Liter
 meq/L - milli equivalents per Liter
 mmhos/cm - milli mohs per centimeter
 EC - Electrical Conductivity
 ESP - Exchangeable Sodium Percentage
 SAR - Sodium Adsorption Ratio

— Not Analyzed
 N/A - Not Applicable