

Soil Analytical Summary - 29-B Analyses (Limited Admission Area)

Danny Paul Gastal and Ignatius Hoffpauir v. Petrodome Operating, LLC, et al.
15th Judicial District Court; Docket No. 202210495-A
Section 32, Township 10 South, Range 01 West
Morse Oil and Gas Field
Morse, Acadia Parish, Louisiana
C&E Legacy Project No. 015-106
HET Project No. 1705.A37

Table 1
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Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Oil & Grease	Metals ⁵															Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	Sulfate		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	1312	29B	29B	9056		29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	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	%	s.u.	%
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Solini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A		
SE-SB01 (0-2')	05/02/23	Southland	—	415	—	2.46	33.8	29.4	1.05	0.54	26.2	—	16.6	—	—	—	4.74	—	72.3	189	—	<0.249	8.86	7.36	<0.102	<1.99	<0.249	—	13.5	—	—	—		
SE-SB01 (2-4')	05/02/23	Southland	—	1350	—	5.03	52.5	45	2.07	1.04	56.1	—	17.1	—	—	—	6.55	—	137	250	—	<0.250	12	16.2	<0.0983	<2.00	<0.250	—	15.8	—	—	—		
SE-SB01 (4-6)	05/02/23	HET	119	2950	—	12.1	—	—	3.65	1.38	112	—	—	0.9	1.13	—	3.54	—	127	204	—	0.608	14.2	11.6	<0.0160	<0.500	<0.250	—	19.5	112	7.67	22.2		
SE-SB01 (4-6)	05/02/23	Southland	—	1120	—	4.33	57.7	43.2	1.69	0.72	47.4	—	25.7	—	—	—	3.37	—	78	187	—	<0.251	8.93	8.53	<0.105	<2.01	<0.251	—	11.2	—	—	—		
SE-SB01 (6-8)	05/02/23	HET	36.6	1390	—	3.96	—	—	0.565	0.244	35.5	—	—	0.5	0.513	—	1.97	—	140	297	—	0.437	8.72	8.22	<0.0160	<0.500	<0.250	—	27.0	221	7.61	17.8		
SE-SB01 (6-8)	05/02/23	Southland	—	631	—	1.74	43.9	26.5	0.47	0.34	16.9	—	32.2	—	—	—	2.61	—	50.1	237	—	<0.243	5.54	8.41	<0.104	<1.95	<0.243	—	13.3	—	—	—		
SE-SB01 (8-10)	05/02/23	HET	46.4	2450	—	5.07	—	—	0.64	0.317	45.9	—	—	0.5	0.669	—	—	—	—	—	—	—	—	—	—	—	—	—	—	190	7.37	18.2		
SE-SB01 (8-10)	05/02/23	Southland	—	727	—	2.23	48.8	28.9	0.77	0.41	22.1	—	32.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB01 (10-12)	05/02/23	HET	30.6	875	—	3.56	—	—	0.997	0.414	31.2	—	—	0.8	2.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	164	7.99	18.1		
SE-SB01 (10-12)	05/02/23	Southland	—	319	—	1.01	51.5	8.91	0.49																									

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			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	Sulfate		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	1312	29B	29B	9056		29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	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	%	s.u.	%
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Solini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A		
SE-SB01 (0-2')	05/02/23	Southland	—	415	—	2.46	33.8	29.4	1.05	0.54	26.2	—	16.6	—	—	—	4.74	—	72.3	189	—	<0.249	8.86	7.36	<0.102	<1.99	<0.249	—	13.5	—	—	—		
SE-SB01 (2-4')	05/02/23	Southland	—	1350	—	5.03	52.5	45	2.07	1.04	56.1	—	17.1	—	—	—	6.55	—	137	250	—	<0.250	12	16.2	<0.0983	<2.00	<0.250	—	15.8	—	—	—		
SE-SB01 (4-6)	05/02/23	HET	119	2950	—	12.1	—	—	3.65	1.38	112	—	—	0.9	1.13	—	3.54	—	127	204	—	0.608	14.2	11.6	<0.0160	<0.500	<0.250	—	19.5	112	7.67	22.2		
SE-SB01 (4-6)	05/02/23	Southland	—	1120	—	4.33	57.7	43.2	1.69	0.72	47.4	—	25.7	—	—	—	3.37	—	78	187	—	<0.251	8.93	8.53	<0.105	<2.01	<0.251	—	11.2	—	—	—		
SE-SB01 (6-8)	05/02/23	HET	36.6	1390	—	3.96	—	—	0.565	0.244	35.5	—	—	0.5	0.513	—	1.97	—	140	297	—	0.437	8.72	8.22	<0.0160	<0.500	<0.250	—	27.0	221	7.61	17.8		
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SE-SB01 (8-10)	05/02/23	HET	46.4	2450	—	5.07	—	—	0.64	0.317	45.9	—	—	0.5	0.669	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	190	7.37	18.2	
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SE-SB01 (10-12)	05/02/23	HET	30.6	875	—	3.56	—	—	0.997	0.414	31.2	—	—	0.8	2.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	164	7.99	18.1		
SE-SB01 (10-12)	05/02/23	Southland	—	319	—	1.01	51.5	8.91																										

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			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G	
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	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	%	s.u.	%	
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soilini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A		
SE-SB01 (34-35)	05/02/23	HET	311	4540	201	28.3	—	—	42.4	19	229	130	—	1	0.504	—	—	—	—	—	—	—	—	—	—	—	—	—	39	7.66	19			
SE-SB01 (34-35)	05/02/23	Southland	—	2770	—	18.2	34.2	46.9	26.4	11.8	205	—	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB01 (34-36)	06/16/23	HET	278	4310	204	26.1	—	—	53.1	22.1	201	125	—	1.2	0.604	—	—	—	—	—	—	—	—	—	—	—	—	—	—	39	7.53	20.6		
SE-SB01 (34-36)	06/16/23	Southland	—	2600	—	19.2	40	29.5	43.6	19.5	166	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB01 (38-40)	06/16/23	HET	108	1570	—	10.8	—	—	45.7	22	40.4	—	—	1.3	1.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	51.1	7.77	23.6		
SE-SB01 (38-40)	06/16/23	Southland	—	1270	—	8.73	13.3	8.48	29.9	18.4	41.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB01 (40-42)	06/16/23	Southland	—	841	—	7.05	9.55	6.82	23.7	13.9	29.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB01 (42-44)	06/16/23	HET	56.1	609	—	6.11	—	—	26.6	13.9	19.2	—	—	2	4.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52.3	8.01	33.7		
SE-SB01 (42-44)	06/16/23	Southland	—	655	—	5.65	3.70	4.26	22.2	12.4	17.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB01 (44-46)	06/16/23	HET	45	713	32.4	5.09	—	—	21.5	9.97	16.5	36.9	—	3.6	1.84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	70.4	8.03	31.4		
SE-SB01 (44-46)	06/16/23	Southland	—	688	—	5.51	7.08	5.96	17.1	11.1																								

Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Metals ⁵															Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	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	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	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	%	s.u.	%
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A	
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A	
LDEQ RECAP MO-1 Soil ¹ ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A	
SE-SB01 (34-35)	05/02/23	HET	311	4540	201	28.3	—	—	42.4	19	229	130	—	1	0.504	—	—	—	—	—	—	—	—	—	—	—	—	—	39	7.66	19		
SE-SB01 (34-35)	05/02/23	Southland	—	2770	—	18.2	34.2	46.9	26.4	11.8	205	—	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB01 (34-36)	06/16/23	HET	278	4310	204	26.1	—	—	53.1	22.1	201	125	—	1.2	0.604	—	—	—	—	—	—	—	—	—	—	—	—	—	—	39	7.53	20.6	
SE-SB01 (34-36)	06/16/23	Southland	—	2600	—	19.2	40	29.5	43.6	19.5	166	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB01 (38-40)	06/16/23	HET	108	1570	—	10.8	—	—	45.7	22	40.4	—	—	1.3	1.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	51.1	7.77	23.6	
SE-SB01 (38-40)	06/16/23	Southland	—	1270	—	8.73	13.3	8.48	29.9	18.4	41.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB01 (40-42)	06/16/23	Southland	—	841	—	7.05	9.55	6.82	23.7	13.9	29.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB01 (42-44)	06/16/23	HET	56.1	609	—	6.11	—	—	26.6	13.9	19.2	—	—	2	4.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52.3	8.01	33.7	
SE-SB01 (42-44)	06/16/23	Southland	—	655	—	5.65	3.70	4.26	22.2	12.4	17.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB01 (44-46)	06/16/23	HET	45	713	32.4	5.09	—	—	21.5	9.97	16.5	36.9	—	3.6	1.84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	70.4	8.03	31.4	
SE-SB01 (44-46)	06/16/23	Southland	—	688	—	5.51	7.08	5.96	17.1	11.1	22.4	—																					

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			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	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	%	s.u.	%		
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soilinj ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A		
SE-SB03 (0-2)	05/03/23	HET	2.45	29.3	—	0.668	3.44	6.33	0.749	0.414	4.83	—	20.9	0.8	1.33	—	—	—	—	—	—	—	—	—	—	—	—	—	55.7	7.53	21.5			
SE-SB03 (0-2)	05/03/23	Southland	—	41.1	—	0.46	4.16	5.51	0.71	0.45	4.2	—	25.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB03 (2-4)	05/03/23	HET	2.04	37	—	0.666	4.39	8.21	0.485	0.272	5.05	—	27.4	0.5	3.1	—	—	—	—	—	—	—	—	—	—	—	—	—	88.3	7.06	23.4			
SE-SB03 (2-4)	05/03/23	Southland	—	40.6	—	0.38	5.27	6.3	0.39	0.27	3.62	—	36.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB03 (4-6)	05/03/23	HET	2.68	38.8	—	0.798	—	—	0.373	0.213	6.69	—	—	1.4	3.01	—	—	—	—	—	—	—	—	—	—	—	—	—	105	7.95	21.9			
SE-SB03 (4-6)	05/03/23	Southland	—	134	—	0.87	6.97	14	0.51	0.35	9.15	—	35.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB03 (6-8)	05/03/23	HET	3.88	37.3	—	1.03	—	—	0.584	0.316	8.12	—	—	1.2	3.99	—	—	—	—	—	—	—	—	—	—	—	—	—	99.5	7.78	23.4			
SE-SB03 (6-8)	05/03/23	Southland	—	46.7	—	0.41	7.85	5.28	0.31	0.21	2.7	—	40.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB03 (8-10)	05/03/23	HET	3.77	30.9	—	0.931	—	—	0.71	0.376	7.46	—	—	1.4	3.26	—	—	—	—	—	—	—	—	—	—	—	—	—	62.6	7.96	29.6			
SE-SB03 (8-10)	05/03/23	Southland	—	64.6	—	0.77	6.65	6.66	0.75	0.49	5.24	—	25.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB03 (10-12)	05/03/23	HET	4.19	37.7	—	0.917	—	—	0.711	0.398	7.09	—	—	1.2																				

Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Metals ⁵																Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	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	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G		
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	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	%	s.u.	%		
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soilinj ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A		
SE-SB03 (0-2)	05/03/23	HET	2.45	29.3	—	0.668	3.44	6.33	0.749	0.414	4.83	—	20.9	0.8	1.33	—	—	—	—	—	—	—	—	—	—	—	—	—	55.7	7.53	21.5			
SE-SB03 (0-2)	05/03/23	Southland	—	41.1	—	0.46	4.16	5.51	0.71	0.45	4.2	—	25.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB03 (2-4)	05/03/23	HET	2.04	37	—	0.666	4.39	8.21	0.485	0.272	5.05	—	27.4	0.5	3.1	—	—	—	—	—	—	—	—	—	—	—	—	—	88.3	7.06	23.4			
SE-SB03 (2-4)	05/03/23	Southland	—	40.6	—	0.38	5.27	6.3	0.39	0.27	3.62	—	36.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB03 (4-6)	05/03/23	HET	2.68	38.8	—	0.798	—	—	0.373	0.213	6.69	—	—	1.4	3.01	—	—	—	—	—	—	—	—	—	—	—	—	—	105	7.95	21.9			
SE-SB03 (4-6)	05/03/23	Southland	—	134	—	0.87	6.97	14	0.51	0.35	9.15	—	35.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB03 (6-8)	05/03/23	HET	3.88	37.3	—	1.03	—	—	0.584	0.316	8.12	—	—	1.2	3.99	—	—	—	—	—	—	—	—	—	—	—	—	—	99.5	7.78	23.4			
SE-SB03 (6-8)	05/03/23	Southland	—	46.7	—	0.41	7.85	5.28	0.31	0.21	2.7	—	40.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB03 (8-10)	05/03/23	HET	3.77	30.9	—	0.931	—	—	0.71	0.376	7.46	—	—	1.4	3.26	—	—	—	—	—	—	—	—	—	—	—	—	—	62.6	7.96	29.6			
SE-SB03 (8-10)	05/03/23	Southland	—	64.6	—	0.77	6.65	6.66	0.75	0.49	5.24	—	25.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB03 (10-12)	05/03/23	HET	4.19	37.7	—	0.917	—	—	0.711	0.398	7.09	—	—	1.2																				

Soil Analytical Summary - 29-B Analyses (Limited Admission Area)

Danny Paul Gastal and Ignatius Hoffpauir v. Petrodome Operating, LLC, et al.
15th Judicial District Court; Docket No. 202210495-A
Section 32, Township 10 South, Range 01 West
Morse Oil and Gas Field
Morse, Acadia Parish, Louisiana
C&E Legacy Project No. 015-106
HET Project No. 1705.A37

Table 1
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Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Metals ⁵															Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	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	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	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	%	s.u.	%
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A	
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A	
LDEQ RECAP MO-1 Soilini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A	
SE-SB04 (0-2)	05/03/23	HET	18.9	230	—	2.36	9.77	22.1	1.02	0.515	19.4	—	15.4	1.9	0.728	—	—	—	—	—	—	—	—	—	—	—	—	—	63.2	7.78	16.9		
SE-SB04 (0-2)	05/03/23	Southland	—	231	—	1.67	15.2	13.6	1.06	0.65	12.6	—	18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB04 (2-4)	05/03/23	HET	21.4	594	—	2.41	2.81	5.00	6.3	3.74	11.2	—	27.5	0.2	0.358	—	—	—	—	—	—	—	—	—	—	—	—	—	78.4	6.36	21.9		
SE-SB04 (2-4)	05/03/23	Southland	—	317	—	1.96	5.86	4.73	4.29	2.69	8.83	—	29.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB04 (4-6)	05/03/23	HET	5.9	103	—	0.809	—	—	1.71	0.921	4.52	—	—	0.6	0.661	—	—	—	—	—	—	—	—	—	—	—	—	—	80.3	7.42	16.4		
SE-SB04 (4-6)	05/03/23	Southland	—	57.7	—	0.58	4.16	2.58	1.19	0.69	2.5	—	27.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB04 (6-8)	05/03/23	HET	5.7	80.6	—	0.735	—	—	1.24	0.689	4.22	—	—	0.4	0.412	—	—	—	—	—	—	—	—	—	—	—	—	—	85.1	7.05	15.6		
SE-SB04 (6-8)	05/03/23	Southland	—	60.5	—	0.43	4.9	3.08	0.85	0.46	2.49	—	32.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB04 (8-10)	05/03/23	HET	7.06	104	—	0.939	—	—	1.62	0.897	5.75	—	—	0.7	0.712	—	—	—	—	—	—	—	—	—	—	—	—	—	84.1	7.59	17.4		
SE-SB04 (8-10)	05/03/23	Southland	—	133	—	0.91	4.8	5.36	1.3	0.76	5.44	—	31.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB04 (10-12)	05/03/23	HET	11.7	158	—	1.39	—	—	3.08	1.71	7.24	—	—																				

Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Metals ⁵																Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	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	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G	
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	meq/L	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%	
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soilini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A		
SE-SB04 (0-2)	05/03/23	HET	18.9	230	—	2.36	9.77	22.1	1.02	0.515	19.4	—	15.4	1.9	0.728	—	—	—	—	—	—	—	—	—	—	—	—	—	63.2	7.78	16.9			
SE-SB04 (0-2)	05/03/23	Southland	—	231	—	1.67	15.2	13.6	1.06	0.65	12.6	—	18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB04 (2-4)	05/03/23	HET	21.4	594	—	2.41	2.81	5.00	6.3	3.74	11.2	—	27.5	0.2	0.358	—	—	—	—	—	—	—	—	—	—	—	—	—	78.4	6.36	21.9			
SE-SB04 (2-4)	05/03/23	Southland	—	317	—	1.96	5.86	4.73	4.29	2.69	8.83	—	29.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB04 (4-6)	05/03/23	HET	5.9	103	—	0.809	—	—	1.71	0.921	4.52	—	—	0.6	0.661	—	—	—	—	—	—	—	—	—	—	—	—	—	80.3	7.42	16.4			
SE-SB04 (4-6)	05/03/23	Southland	—	57.7	—	0.58	4.16	2.58	1.19	0.69	2.5	—	27.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB04 (6-8)	05/03/23	HET	5.7	80.6	—	0.735	—	—	1.24	0.689	4.22	—	—	0.4	0.412	—	—	—	—	—	—	—	—	—	—	—	—	—	85.1	7.05	15.6			
SE-SB04 (6-8)	05/03/23	Southland	—	60.5	—	0.43	4.9	3.08	0.85	0.46	2.49	—	32.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB04 (8-10)	05/03/23	HET	7.06	104	—	0.939	—	—	1.62	0.897	5.75	—	—	0.7	0.712	—	—	—	—	—	—	—	—	—	—	—	—	—	84.1	7.59	17.4			
SE-SB04 (8-10)	05/03/23	Southland	—	133	—	0.91	4.8	5.36	1.3	0.76	5.44	—	31.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB04 (10-12)	05/03/23	HET	11.7	158	—	1.39	—	—	3.08	1.71	7.24	—	—																					

Soil Analytical Summary - 29-B Analyses (Limited Admission Area)

Danny Paul Gastal and Ignatius Hoffpauir v. Petrodome Operating, LLC, et al.
15th Judicial District Court; Docket No. 202210495-A
Section 32, Township 10 South, Range 01 West
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C&E Legacy Project No. 015-106
HET Project No. 1705.A37

Table 1
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Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Oil & Grease	Metals ⁵															Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	Sulfate		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	1312	29B	29B	9056		29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	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	%	s.u.	%
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soil ¹ ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A		
SE-SB05 (10-12)	05/03/23	HET	13.5	186	—	1.6	—	—	4.92	2.52	6.41	—	—	0.3	0.251	—	—	—	—	—	—	—	—	—	—	—	—	—	49.3	6.96	17.2			
SE-SB05 (10-12)	05/03/23	Southland	—	178	—	1.66	1.65	3.57	6.68	3.34	8.00	—	14.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB05 (12-14)	05/03/23	HET	128	2180	98.1	12.8	—	—	39.3	20.2	63.8	51.3	—	0.2	0.178	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52.2	6.76	21		
SE-SB05 (12-14)	05/03/23	Southland	—	1280	—	9.36	9.73	10.2	24.8	12.2	43.7	—	18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB05 (14-16)	05/03/23	HET	188	3180	—	17.7	—	—	68.8	32.5	83.3	—	—	0.1	0.126	—	—	—	—	—	—	—	—	—	—	—	—	—	—	59.3	6.07	23.2		
SE-SB05 (14-16)	05/03/23	Southland	—	2740	—	14.7	14.3	11.4	43.5	22.1	65.1	—	25.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB05 (16-18)	05/03/23	HET	31.4	1360	—	3.41	—	—	16.6	7	7.9	—	—	1.2	0.188	—	—	—	—	—	—	—	—	—	—	—	—	—	—	122	7.90	25.2		
SE-SB05 (16-18)	05/03/23	Southland	—	753	—	2.96	4.18	2.44	12.1	5.51	7.22	—	35.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB05 (18-20)	05/03/23	HET	6.4	137	—	0.900	—	—	3.47	1.42	3.33	—	—	1.6	0.274	—	—	—	—	—	—	—	—	—	—	—	—	—	—	113	7.90	25.3		
SE-SB05 (18-20)	05/03/23	Southland	—	208	—	0.950	4.79	3.07	2.6	1.22	4.24	—	32.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB05 (20-22)	05/03/23	HET	19.9	381	—	2.28	—	—	10.3																									

Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Oil & Grease	Metals ⁵															Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	Sulfate		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	1312	29B	29B	9056		29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	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	%	s.u.	%
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soil ¹ ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A		
SE-SB05 (10-12)	05/03/23	HET	13.5	186	—	1.6	—	—	4.92	2.52	6.41	—	—	0.3	0.251	—	—	—	—	—	—	—	—	—	—	—	—	—	49.3	6.96	17.2			
SE-SB05 (10-12)	05/03/23	Southland	—	178	—	1.66	1.65	3.57	6.68	3.34	8.00	—	14.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB05 (12-14)	05/03/23	HET	128	2180	98.1	12.8	—	—	39.3	20.2	63.8	51.3	—	0.2	0.178	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52.2	6.76	21		
SE-SB05 (12-14)	05/03/23	Southland	—	1280	—	9.36	9.73	10.2	24.8	12.2	43.7	—	18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB05 (14-16)	05/03/23	HET	188	3180	—	17.7	—	—	68.8	32.5	83.3	—	—	0.1	0.126	—	—	—	—	—	—	—	—	—	—	—	—	—	—	59.3	6.07	23.2		
SE-SB05 (14-16)	05/03/23	Southland	—	2740	—	14.7	14.3	11.4	43.5	22.1	65.1	—	25.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB05 (16-18)	05/03/23	HET	31.4	1360	—	3.41	—	—	16.6	7	7.9	—	—	1.2	0.188	—	—	—	—	—	—	—	—	—	—	—	—	—	—	122	7.90	25.2		
SE-SB05 (16-18)	05/03/23	Southland	—	753	—	2.96	4.18	2.44	12.1	5.51	7.22	—	35.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB05 (18-20)	05/03/23	HET	6.4	137	—	0.900	—	—	3.47	1.42	3.33	—	—	1.6	0.274	—	—	—	—	—	—	—	—	—	—	—	—	—	—	113	7.90	25.3		
SE-SB05 (18-20)	05/03/23	Southland	—	208	—	0.950	4.79	3.07	2.6	1.22	4.24	—	32.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB05 (20-22)	05/03/23	HET	19.9	381	—	2.28	—	—	10.3																									

Soil Analytical Summary - 29-B Analyses (Limited Admission Area)

Danny Paul Gastal and Ignatius Hoffpauir v. Petrodome Operating, LLC, et al.
15th Judicial District Court; Docket No. 202210495-A
Section 32, Township 10 South, Range 01 West
Morse Oil and Gas Field
Morse, Acadia Parish, Louisiana
C&E Legacy Project No. 015-106
HET Project No. 1705.A37

Table 1
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Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Metals ⁵															Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	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	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	meq/L	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	'6-9	N/A	
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A	
LDEQ RECAP MO-1 Solini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A	
SE-SB06 (20-22)	05/04/23	HET	116	4280	—	11.9	—	—	2.84	1.01	108	—	—	1	0.174	—	—	—	—	—	—	—	—	—	—	—	—	—	166	7.50	19.8		
SE-SB06 (20-22)	05/04/23	Southland	—	2470	—	7.75	83.1	63.2	1.76	0.84	72.1	—	28.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB06 (22-24)	05/04/23	HET	60.2	4080	—	20.6	—	—	5.02	1.4	198	—	—	1.2	0.236	—	—	—	—	—	—	—	—	—	—	—	—	—	67.6	7.97	16.2		
SE-SB06 (22-24)	05/04/23	Southland	—	4470	—	16.8	84.9	99.3	3.58	1.2	154	—	13.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB06 (24-26)	05/04/23	HET	226	3500	—	22.0	—	—	6.06	1.97	211	—	—	1.3	0.207	—	—	—	—	—	—	—	—	—	—	—	—	—	51.4	7.75	18.8		
SE-SB06 (24-26)	05/04/23	Southland	—	4100	—	18.3	63.7	92.4	4.99	1.92	172	—	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB06 (26-27)	05/04/23	HET	250	943	206	23.9	—	—	13.4	5.26	219	179	—	1.4	<0.041	—	—	—	—	—	—	—	—	—	—	—	—	—	67	7.92	20.3		
SE-SB06 (26-27)	05/04/23	Southland	—	2910	—	17.9	73.8	59.8	10.2	4.31	161	—	16.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB07 (0-2)	05/04/23	HET	22.1	372	—	2.63	36.4	10.1	4.16	2.01	17.7	—	9.61	1.1	0.527	—	—	—	—	—	—	—	—	—	—	—	—	—	61.8	7.79	15.7		
SE-SB07 (0-2)	05/04/23	Southland	—	363	—	2.03	7.40	10.0	2.95	1.52	15	—	20.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB07 (2-4)	05/04/23	HET	3.69	57.6	—	0.932	44.6	11.4	0.64	0.284	7.74	—	14.																				

Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Metals ⁵															Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	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	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	meq/L	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	'6-9	N/A	
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A	
LDEQ RECAP MO-1 Solini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A	
SE-SB06 (20-22)	05/04/23	HET	116	4280	—	11.9	—	—	2.84	1.01	108	—	—	1	0.174	—	—	—	—	—	—	—	—	—	—	—	—	—	166	7.50	19.8		
SE-SB06 (20-22)	05/04/23	Southland	—	2470	—	7.75	83.1	63.2	1.76	0.84	72.1	—	28.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB06 (22-24)	05/04/23	HET	60.2	4080	—	20.6	—	—	5.02	1.4	198	—	—	1.2	0.236	—	—	—	—	—	—	—	—	—	—	—	—	—	67.6	7.97	16.2		
SE-SB06 (22-24)	05/04/23	Southland	—	4470	—	16.8	84.9	99.3	3.58	1.2	154	—	13.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB06 (24-26)	05/04/23	HET	226	3500	—	22.0	—	—	6.06	1.97	211	—	—	1.3	0.207	—	—	—	—	—	—	—	—	—	—	—	—	—	51.4	7.75	18.8		
SE-SB06 (24-26)	05/04/23	Southland	—	4100	—	18.3	63.7	92.4	4.99	1.92	172	—	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB06 (26-27)	05/04/23	HET	250	943	206	23.9	—	—	13.4	5.26	219	179	—	1.4	<0.041	—	—	—	—	—	—	—	—	—	—	—	—	—	67	7.92	20.3		
SE-SB06 (26-27)	05/04/23	Southland	—	2910	—	17.9	73.8	59.8	10.2	4.31	161	—	16.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB07 (0-2)	05/04/23	HET	22.1	372	—	2.63	36.4	10.1	4.16	2.01	17.7	—	9.61	1.1	0.527	—	—	—	—	—	—	—	—	—	—	—	—	—	61.8	7.79	15.7		
SE-SB07 (0-2)	05/04/23	Southland	—	363	—	2.03	7.40	10.0	2.95	1.52	15	—	20.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB07 (2-4)	05/04/23	HET	3.69	57.6	—	0.932	44.6	11.4	0.64	0.284	7.74	—	14.																				

Soil Analytical Summary - 29-B Analyses (Limited Admission Area)

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Table 1
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Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Metals ⁵															Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	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	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	meq/L	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A	
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A	
LDEQ RECAP MO-1 Solini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A	
SE-SB08 (0-2)	05/04/23	HET	73.8	619	—	7.55	13.7	18.3	11.4	6.18	54.4	—	9.09	0.2	0.239	—	—	—	—	—	—	—	—	—	—	—	—	—	60.9	6.77	17.2		
SE-SB08 (0-2)	05/04/23	Southland	—	635	—	4.56	14.1	22.5	6.9	2.85	49.7	—	19.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB08 (2-4)	05/04/23	HET	54.7	973	—	5.62	24.4	8.07	15	9.24	28.1	—	13.1	0	0.266	—	—	—	—	—	—	—	—	—	—	—	—	—	79.7	4.81	21		
SE-SB08 (2-4)	05/04/23	Southland	—	581	—	3.06	11.8	6.66	9.89	6.07	18.8	—	32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB08 (4-6)	05/04/23	HET	11.3	208	—	1.38	—	—	2.96	1.66	7.6	—	—	0.4	0.507	—	—	—	—	—	—	—	—	—	—	—	—	—	86.1	7.15	19.6		
SE-SB08 (4-6)	05/04/23	Southland	—	151	—	0.92	3.23	6.51	2.85	1.6	9.72	—	32.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB08 (6-8)	05/04/23	HET	6.89	162	—	0.865	—	—	1.42	0.77	5.31	—	—	0.2	0.5	—	—	—	—	—	—	—	—	—	—	—	—	—	82.4	7.01	14.3		
SE-SB08 (6-8)	05/04/23	Southland	—	125	—	0.79	4.03	7.45	1.78	0.79	8.45	—	36.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB08 (8-10)	05/04/23	HET	20.6	267	—	2.31	—	—	7.8	4.6	29.2	—	—	0.1	0.219	—	—	—	—	—	—	—	—	—	—	—	—	—	56.7	6.75	15.7		
SE-SB08 (8-10)	05/04/23	Southland	—	196	—	2.03	7.92	8.95	4.24	2.54	16.5	—	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB08 (10-12)	05/04/23	HET	34.2	524	—	3.68	—	—	8.03	4.76	20.3	—	—	0.1	0.198																		

Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Metals ⁵															Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	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	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	meq/L	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A	
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A	
LDEQ RECAP MO-1 Solini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A	
SE-SB08 (0-2)	05/04/23	HET	73.8	619	—	7.55	13.7	18.3	11.4	6.18	54.4	—	9.09	0.2	0.239	—	—	—	—	—	—	—	—	—	—	—	—	—	60.9	6.77	17.2		
SE-SB08 (0-2)	05/04/23	Southland	—	635	—	4.56	14.1	22.5	6.9	2.85	49.7	—	19.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB08 (2-4)	05/04/23	HET	54.7	973	—	5.62	24.4	8.07	15	9.24	28.1	—	13.1	0	0.266	—	—	—	—	—	—	—	—	—	—	—	—	—	79.7	4.81	21		
SE-SB08 (2-4)	05/04/23	Southland	—	581	—	3.06	11.8	6.66	9.89	6.07	18.8	—	32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB08 (4-6)	05/04/23	HET	11.3	208	—	1.38	—	—	2.96	1.66	7.6	—	—	0.4	0.507	—	—	—	—	—	—	—	—	—	—	—	—	—	86.1	7.15	19.6		
SE-SB08 (4-6)	05/04/23	Southland	—	151	—	0.92	3.23	6.51	2.85	1.6	9.72	—	32.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB08 (6-8)	05/04/23	HET	6.89	162	—	0.865	—	—	1.42	0.77	5.31	—	—	0.2	0.5	—	—	—	—	—	—	—	—	—	—	—	—	—	82.4	7.01	14.3		
SE-SB08 (6-8)	05/04/23	Southland	—	125	—	0.79	4.03	7.45	1.78	0.79	8.45	—	36.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB08 (8-10)	05/04/23	HET	20.6	267	—	2.31	—	—	7.8	4.6	29.2	—	—	0.1	0.219	—	—	—	—	—	—	—	—	—	—	—	—	—	56.7	6.75	15.7		
SE-SB08 (8-10)	05/04/23	Southland	—	196	—	2.03	7.92	8.95	4.24	2.54	16.5	—	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB08 (10-12)	05/04/23	HET	34.2	524	—	3.68	—	—	8.03	4.76	20.3	—	—	0.1	0.198																		

Soil Analytical Summary - 29-B Analyses (Limited Admission Area)

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15th Judicial District Court; Docket No. 202210495-A
Section 32, Township 10 South, Range 01 West
Morse Oil and Gas Field
Morse, Acadia Parish, Louisiana
C&E Legacy Project No. 015-106
HET Project No. 1705.A37

Table 1
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Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Metals ⁵															Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	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	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	meq/L	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A	
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A	
LDEQ RECAP MO-1 Soil ¹ ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A	
SE-SB09 (0-2)	05/04/23	HET	35.1	400	—	3.88	27.2	17.5	3.73	1.93	29.4	—	6.57	0.2	0.296	—	—	—	—	—	—	—	—	—	—	—	—	—	51.2	7.02	17.6		
SE-SB09 (0-2)	05/04/23	Southland	—	351	—	2.76	14.6	17.9	2.82	1.45	26.2	—	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB09 (2-4)	05/04/23	HET	48.3	954	—	5.20	25.0	7.72	13.8	8.71	25.9	—	12.5	0.0	0.409	—	—	—	—	—	—	—	—	—	—	—	—	—	—	70.7	5.08	19.3	
SE-SB09 (2-4)	05/04/23	Southland	—	604	—	3.97	7.83	7.83	11.5	7.24	24	—	24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB09 (4-6)	05/04/23	HET	3.03	67.8	—	0.70	—	—	1.02	0.538	5.3	—	—	2.2	1.13	—	—	—	—	—	—	—	—	—	—	—	—	—	105	8.31	20		
SE-SB09 (4-6)	05/04/23	Southland	—	51	—	0.40	5.45	6.36	0.8	0.43	5	—	27.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB09 (6-8)	05/04/23	HET	2.53	41.1	—	0.437	—	—	0.614	0.198	3.36	—	—	0.3	0.896	—	—	—	—	—	—	—	—	—	—	—	—	—	—	92.3	7.13	18.2	
SE-SB09 (6-8)	05/04/23	Southland	—	57.3	—	0.43	6.33	3.55	1.04	0.56	3.17	—	27.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB09 (8-10)	05/04/23	HET	4.62	82.8	—	0.677	—	—	0.863	0.448	4.82	—	—	0.4	0.925	—	—	—	—	—	—	—	—	—	—	—	—	—	—	67.2	7.36	17.6	
SE-SB09 (8-10)	05/04/23	Southland	—	90.6	—	0.68	6.73	6.04	1.07	0.69	5.66	—	27.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB09 (10-12)	05/04/23	HET	18.8	312	—	2.18	—</																										

Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Metals ⁵															Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	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	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	meq/L	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A	
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A	
LDEQ RECAP MO-1 Soil ¹ ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A	
SE-SB09 (0-2)	05/04/23	HET	35.1	400	—	3.88	27.2	17.5	3.73	1.93	29.4	—	6.57	0.2	0.296	—	—	—	—	—	—	—	—	—	—	—	—	—	51.2	7.02	17.6		
SE-SB09 (0-2)	05/04/23	Southland	—	351	—	2.76	14.6	17.9	2.82	1.45	26.2	—	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB09 (2-4)	05/04/23	HET	48.3	954	—	5.20	25.0	7.72	13.8	8.71	25.9	—	12.5	0.0	0.409	—	—	—	—	—	—	—	—	—	—	—	—	—	—	70.7	5.08	19.3	
SE-SB09 (2-4)	05/04/23	Southland	—	604	—	3.97	7.83	7.83	11.5	7.24	24	—	24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB09 (4-6)	05/04/23	HET	3.03	67.8	—	0.70	—	—	1.02	0.538	5.3	—	—	2.2	1.13	—	—	—	—	—	—	—	—	—	—	—	—	—	105	8.31	20		
SE-SB09 (4-6)	05/04/23	Southland	—	51	—	0.40	5.45	6.36	0.8	0.43	5	—	27.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB09 (6-8)	05/04/23	HET	2.53	41.1	—	0.437	—	—	0.614	0.198	3.36	—	—	0.3	0.896	—	—	—	—	—	—	—	—	—	—	—	—	—	—	92.3	7.13	18.2	
SE-SB09 (6-8)	05/04/23	Southland	—	57.3	—	0.43	6.33	3.55	1.04	0.56	3.17	—	27.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB09 (8-10)	05/04/23	HET	4.62	82.8	—	0.677	—	—	0.863	0.448	4.82	—	—	0.4	0.925	—	—	—	—	—	—	—	—	—	—	—	—	—	—	67.2	7.36	17.6	
SE-SB09 (8-10)	05/04/23	Southland	—	90.6	—	0.68	6.73	6.04	1.07	0.69	5.66	—	27.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB09 (10-12)	05/04/23	HET	18.8	312	—	2.18	—</																										

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			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	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	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G	
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	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	%	s.u.	%
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A	
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A	
LDEQ RECAP MO-1 Solini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A	
SE-SB10 (0-2)	09/05/23	HET	15.6	375	—	1.95	6.76	12.1	1.89	0.989	14.5	—	21.4	<0.3	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.5	6.85	15.7	
SE-SB10 (0-2)	09/05/23	Southland	—	225	—	1.58	9.48	11.7	2.20	1.21	15.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB10 (2-4)	06/15/23	HET	10.3	157	—	1.57	8.19	11.9	1.79	0.48	12.7	—	25.2	0.8	2.69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	106	7.30	23.2	
SE-SB10 (2-4)	06/15/23	Southland	—	95.9	—	0.57	10.5	6.08	0.47	0.52	4.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB10 (6-8)	06/15/23	HET	11.7	124	—	2.00	—	—	1.55	0.684	16.4	—	—	1.2	5.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	90.4	7.76	18.7	
SE-SB10 (6-8)	06/15/23	Southland	—	224	—	2.19	19.5	24.5	0.80	1.18	24.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB10 (10-12)	06/15/23	HET	14.8	229	—	2.21	—	—	1.35	0.452	18.7	—	—	1	4.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	58.4	7.39	16.5	
SE-SB10 (10-12)	06/15/23	Southland	—	360	—	2.35	20.9	13.9	2.44	1.60	19.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB10 (14-16)	06/15/23	HET	106	2420	—	10.8	—	—	26	15.6	60.1	—	—	0.5	0.526	—	—	—	—	—	—	—	—	—	—	—	—	—	—	89.8	6.93	23.1	
SE-SB10 (14-16)	06/15/23	Southland	—	726	—	3.62	25.6	6.46	9.46	6.16	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB10 (18-20)	06/15/23	HET	8.57	219	—	1.32	—	—	2.																								

Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Metals ⁵															Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	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	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G	
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	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	%	s.u.	%
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A	
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A	
LDEQ RECAP MO-1 Solini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A	
SE-SB10 (0-2)	09/05/23	HET	15.6	375	—	1.95	6.76	12.1	1.89	0.989	14.5	—	21.4	<0.3	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66.5	6.85	15.7	
SE-SB10 (0-2)	09/05/23	Southland	—	225	—	1.58	9.48	11.7	2.20	1.21	15.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB10 (2-4)	06/15/23	HET	10.3	157	—	1.57	8.19	11.9	1.79	0.48	12.7	—	25.2	0.8	2.69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	106	7.30	23.2	
SE-SB10 (2-4)	06/15/23	Southland	—	95.9	—	0.57	10.5	6.08	0.47	0.52	4.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB10 (6-8)	06/15/23	HET	11.7	124	—	2.00	—	—	1.55	0.684	16.4	—	—	1.2	5.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	90.4	7.76	18.7	
SE-SB10 (6-8)	06/15/23	Southland	—	224	—	2.19	19.5	24.5	0.80	1.18	24.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB10 (10-12)	06/15/23	HET	14.8	229	—	2.21	—	—	1.35	0.452	18.7	—	—	1	4.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	58.4	7.39	16.5	
SE-SB10 (10-12)	06/15/23	Southland	—	360	—	2.35	20.9	13.9	2.44	1.60	19.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB10 (14-16)	06/15/23	HET	106	2420	—	10.8	—	—	26	15.6	60.1	—	—	0.5	0.526	—	—	—	—	—	—	—	—	—	—	—	—	—	—	89.8	6.93	23.1	
SE-SB10 (14-16)	06/15/23	Southland	—	726	—	3.62	25.6	6.46	9.46	6.16	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB10 (18-20)	06/15/23	HET	8.57	219	—	1.32	—	—	2.																								

Soil Analytical Summary - 29-B Analyses (Limited Admission Area)

Danny Paul Gastal and Ignatius Hoffpauir v. Petrodome Operating, LLC, et al.
15th Judicial District Court; Docket No. 202210495-A
Section 32, Township 10 South, Range 01 West
Morse Oil and Gas Field
Morse, Acadia Parish, Louisiana
C&E Legacy Project No. 015-106
HET Project No. 1705.A37

Table 1
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Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Metals ⁵															Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	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	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	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	%	s.u.	%	
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	~6-9	N/A	
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A	
LDEQ RECAP MO-1 Soilini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A	
SE-SB11 (0-2)	09/05/23	HET	1.7	401	—	1.88	9.46	13.9	1.41	0.741	14.4	—	29.4	<0.3	1.51	—	—	—	—	—	—	—	—	—	—	—	—	—	—	93.6	6.76	13.9	
SE-SB11 (0-2)	09/05/23	Southland	—	459	—	1.40	3.69	12.4	1.85	1.11	15.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB11 (2-4)	06/15/23	Southland	—	48.5	—	0.37	14.9	3.18	0.91	1.17	3.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB11 (6-8)	06/15/23	HET	9.8	158	—	1.51	—	—	0.927	0.498	11.8	—	—	2	2.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	88.7	8.10	20.2	
SE-SB11 (6-8)	06/15/23	Southland	—	58.7	—	0.62	10.8	6.47	0.75	0.46	5.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB11 (10-12)	06/15/23	HET	7.83	67	—	1.20	—	—	1.22	0.69	8.74	—	—	1.6	1.55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	74.2	7.83	17.8	
SE-SB11 (10-12)	06/15/23	Southland	—	66.2	—	0.55	4.79	5.04	1.08	0.62	4.66	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB11 (14-16)	06/15/23	HET	2.92	36.9	—	0.686	—	—	1.02	0.577	4.67	—	—	2.8	0.846	—	—	—	—	—	—	—	—	—	—	—	—	—	—	57.7	7.79	21.3	
SE-SB11 (14-16)	06/15/23	Southland	—	83.7	—	0.99	4.37	5.32	2.26	1.25	7.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB11 (18-20)	06/15/23	HET	1.19	19.3	—	0.611	—	—	1.06	0.582	4.32	—	—	3.8	0.841	—	—	—	—	—	—	—	—	—	—	—	—	—	—	121	8.32	21.7	
SE-SB11 (18-20)	06/15/23	Southland	—	33.6	—	0.37																											

Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Metals ⁵															Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	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	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	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	%	s.u.	%	
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	~6-9	N/A	
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A	
LDEQ RECAP MO-1 Soilini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A	
SE-SB11 (0-2)	09/05/23	HET	1.7	401	—	1.88	9.46	13.9	1.41	0.741	14.4	—	29.4	<0.3	1.51	—	—	—	—	—	—	—	—	—	—	—	—	—	—	93.6	6.76	13.9	
SE-SB11 (0-2)	09/05/23	Southland	—	459	—	1.40	3.69	12.4	1.85	1.11	15.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB11 (2-4)	06/15/23	Southland	—	48.5	—	0.37	14.9	3.18	0.91	1.17	3.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB11 (6-8)	06/15/23	HET	9.8	158	—	1.51	—	—	0.927	0.498	11.8	—	—	2	2.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	88.7	8.10	20.2	
SE-SB11 (6-8)	06/15/23	Southland	—	58.7	—	0.62	10.8	6.47	0.75	0.46	5.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB11 (10-12)	06/15/23	HET	7.83	67	—	1.20	—	—	1.22	0.69	8.74	—	—	1.6	1.55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	74.2	7.83	17.8	
SE-SB11 (10-12)	06/15/23	Southland	—	66.2	—	0.55	4.79	5.04	1.08	0.62	4.66	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB11 (14-16)	06/15/23	HET	2.92	36.9	—	0.686	—	—	1.02	0.577	4.67	—	—	2.8	0.846	—	—	—	—	—	—	—	—	—	—	—	—	—	—	57.7	7.79	21.3	
SE-SB11 (14-16)	06/15/23	Southland	—	83.7	—	0.99	4.37	5.32	2.26	1.25	7.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB11 (18-20)	06/15/23	HET	1.19	19.3	—	0.611	—	—	1.06	0.582	4.32	—	—	3.8	0.841	—	—	—	—	—	—	—	—	—	—	—	—	—	—	121	8.32	21.7	
SE-SB11 (18-20)	06/15/23	Southland	—	33.6	—	0.37																											

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Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Metals ⁵																Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	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	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G		
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	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	%	s.u.	%	
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A		
SE-SB13 (0-2')	09/05/23	HET	54.1	856	—	5.83	14.3	29.3	3.5	1.82	47.8	—	15.5	0.5	0.161	—	—	—	—	—	—	—	—	—	—	—	—	—	—	57.3	6.92	13.7		
SE-SB13 (0-2')	09/05/23	Southland	—	1090	—	6.01	14.2	23.0	7.34	4.28	55.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB13 (2-4')	06/15/23	HET	40.3	1010	—	4.37	3.78	7.96	10.5	6.48	23.2	—	32.4	0.2	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83	7.41	19.1		
SE-SB13 (2-4')	06/15/23	Southland	—	305	—	1.82	7.58	6.18	4.49	2.92	11.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB13 (6-8')	06/15/23	HET	5.84	132	—	0.816	—	—	1.29	0.714	5.34	—	—	0.8	0.493	—	—	—	—	—	—	—	—	—	—	—	—	—	—	93	7.50	15.9		
SE-SB13 (6-8')	06/15/23	Southland	—	83.1	—	0.63	4.65	4.12	1.81	1.04	4.93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB13 (10-12')	06/15/23	HET	13.6	324	—	1.71	—	—	3.21	1.7	10.3	—	—	0.6	0.428	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.5	7.25	17.7		
SE-SB13 (10-12')	06/15/23	Southland	—	199	—	1.61	4.61	6.65	5.13	2.83	13.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB13 (14-16')	06/15/23	HET	15.9	106	—	1.87	—	—	6.46	2.81	7.49	—	—	0.4	0.341	—	—	—	—	—	—	—	—	—	—	—	—	—	—	37.4	6.80	7.49		
SE-SB13 (14-16')	06/15/23	Southland	—	96.6	—	1.26	6.34	3.59	4.72	2.34	6.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB13 (18-20')	06/15/23	HET	4.66	114	—	0.79	—	—																										

Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Metals ⁵																Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	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	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G		
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	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	%	s.u.	%	
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A		
SE-SB13 (0-2')	09/05/23	HET	54.1	856	—	5.83	14.3	29.3	3.5	1.82	47.8	—	15.5	0.5	0.161	—	—	—	—	—	—	—	—	—	—	—	—	—	—	57.3	6.92	13.7		
SE-SB13 (0-2')	09/05/23	Southland	—	1090	—	6.01	14.2	23.0	7.34	4.28	55.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB13 (2-4')	06/15/23	HET	40.3	1010	—	4.37	3.78	7.96	10.5	6.48	23.2	—	32.4	0.2	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83	7.41	19.1		
SE-SB13 (2-4')	06/15/23	Southland	—	305	—	1.82	7.58	6.18	4.49	2.92	11.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB13 (6-8')	06/15/23	HET	5.84	132	—	0.816	—	—	1.29	0.714	5.34	—	—	0.8	0.493	—	—	—	—	—	—	—	—	—	—	—	—	—	—	93	7.50	15.9		
SE-SB13 (6-8')	06/15/23	Southland	—	83.1	—	0.63	4.65	4.12	1.81	1.04	4.93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB13 (10-12')	06/15/23	HET	13.6	324	—	1.71	—	—	3.21	1.7	10.3	—	—	0.6	0.428	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79.5	7.25	17.7		
SE-SB13 (10-12')	06/15/23	Southland	—	199	—	1.61	4.61	6.65	5.13	2.83	13.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB13 (14-16')	06/15/23	HET	15.9	106	—	1.87	—	—	6.46	2.81	7.49	—	—	0.4	0.341	—	—	—	—	—	—	—	—	—	—	—	—	—	—	37.4	6.80	7.49		
SE-SB13 (14-16')	06/15/23	Southland	—	96.6	—	1.26	6.34	3.59	4.72	2.34	6.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SE-SB13 (18-20')	06/15/23	HET	4.66	114	—	0.79	—	—																										

Soil Analytical Summary - 29-B Analyses (Limited Admission Area)

Danny Paul Gastal and Ignatius Hoffpauir v. Petrodome Operating, LLC, et al.
15th Judicial District Court; Docket No. 202210495-A
Section 32, Township 10 South, Range 01 West
Morse Oil and Gas Field
Morse, Acadia Parish, Louisiana
C&E Legacy Project No. 015-106
HET Project No. 1705.A37

Table 1
Page 12 of 15

Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Oil & Grease	Metals ⁵																Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	Sulfate		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	1312	29B	29B	9056		29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G		
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	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	%	s.u.	%	
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A			
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A			
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A			
SE-SB16 (0-2)	09/06/23	HET	10.6	243	—	1.45	4.57	6.18	2.93	1.34	9.03	—	24.6	2.4	0.349	—	—	—	—	—	—	—	—	—	—	—	—	—	—	68.3	8.08	10.4			
SE-SB16 (0-2)	09/06/23	Southland	—	154	—	1.01	5.32	6.39	2.30	1.33	8.62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB16 (2-4)	06/16/23	HET	13.2	242	—	1.78	2.1	4.16	5.25	2.83	8.37	—	27.6	2.1	0.465	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.3	7.91	19.8			
SE-SB16 (2-4)	06/16/23	Southland	—	153	—	1.05	4.05	3.56	3.7	2.21	6.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB16 (6-8)	06/16/23	HET	6.83	119	—	0.952	—	—	1.62	0.809	6.32	—	—	1.6	0.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.8	7.81	19.9			
SE-SB16 (6-8)	06/16/23	Southland	—	71	—	1.03	3.78	3.42	4.01	2.02	5.93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB16 (10-12)	06/16/23	HET	13.1	200	—	1.67	—	—	4.94	2.36	7.81	—	—	1.6	0.244	—	—	—	—	—	—	—	—	—	—	—	—	—	—	48.2	7.72	20.1			
SE-SB16 (10-12)	06/16/23	Southland	—	128	—	1.16	3.36	4.08	4.00	2.06	7.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB16 (14-16)	06/16/23	HET	1.22	23.2	—	0.399	—	—	0.913	0.445	2.77	—	—	2.4	0.268	—	—	—	—	—	—	—	—	—	—	—	—	—	—	148	8.26	22.2			
SE-SB16 (14-16)	06/16/23	Southland	—	55.6	—	0.39	3.17	4.39	0.91	0.75	4.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB17 (0-2)	09/06/23	HET	18.2	403	—	2.45	8.01																												

Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Oil & Grease	Metals ⁵																Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	Sulfate		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	1312	29B	29B	9056		29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G		
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	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	%	s.u.	%		
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A			
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A			
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A			
SE-SB16 (0-2)	09/06/23	HET	10.6	243	—	1.45	4.57	6.18	2.93	1.34	9.03	—	24.6	2.4	0.349	—	—	—	—	—	—	—	—	—	—	—	—	—	68.3	8.08	10.4				
SE-SB16 (0-2)	09/06/23	Southland	—	154	—	1.01	5.32	6.39	2.30	1.33	8.62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
SE-SB16 (2-4)	06/16/23	HET	13.2	242	—	1.78	2.1	4.16	5.25	2.83	8.37	—	27.6	2.1	0.465	—	—	—	—	—	—	—	—	—	—	—	—	—	77.3	7.91	19.8				
SE-SB16 (2-4)	06/16/23	Southland	—	153	—	1.05	4.05	3.56	3.7	2.21	6.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
SE-SB16 (6-8)	06/16/23	HET	6.83	119	—	0.952	—	—	1.62	0.809	6.32	—	—	1.6	0.41	—	—	—	—	—	—	—	—	—	—	—	—	—	77.8	7.81	19.9				
SE-SB16 (6-8)	06/16/23	Southland	—	71	—	1.03	3.78	3.42	4.01	2.02	5.93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
SE-SB16 (10-12)	06/16/23	HET	13.1	200	—	1.67	—	—	4.94	2.36	7.81	—	—	1.6	0.244	—	—	—	—	—	—	—	—	—	—	—	—	—	48.2	7.72	20.1				
SE-SB16 (10-12)	06/16/23	Southland	—	128	—	1.16	3.36	4.08	4.00	2.06	7.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
SE-SB16 (14-16)	06/16/23	HET	1.22	23.2	—	0.399	—	—	0.913	0.445	2.77	—	—	2.4	0.268	—	—	—	—	—	—	—	—	—	—	—	—	—	148	8.26	22.2				
SE-SB16 (14-16)	06/16/23	Southland	—	55.6	—	0.39	3.17	4.39	0.91	0.75	4.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
SE-SB17 (0-2)	09/06/23	HET	18.2	403	—	2.45	8.01	14.0	2.35	1.28	18.8	—	20.8	4.6	0.384																				

Soil Analytical Summary - 29-B Analyses (Limited Admission Area)																																		
Danny Paul Gastal and Ignatius Hoffpaur v. Petrodome Operating, LLC, et al. 15th Judicial District Court; Docket No. 202210495-A Section 32, Township 10 South, Range 01 West Morse Oil and Gas Field Morse, Acadia Parish, Louisiana C&E Legacy Project No. 015-106 HET Project No. 1705.A37																																		
Table 1 Page 13 of 15																																		
Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Oil & Grease	Metals ⁵															Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	Sulfate		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	1312	29B	29B	9056		29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	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	%	s.u.	%		
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	ˆ6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A		
SE-SB21 (0-2)	09/06/23	HET	1.27	34.4	—	0.891	2.82	4.88	2.26	1.09	6.31	—	19	6.8	0.531	—	—	—	—	—	—	—	—	—	—	—	—	—	59.5	8.26	15.2			
SE-SB21 (0-2)	09/06/23	Southland	—	22.3	—	0.620	1.79	4.66	2.55	1.24	6.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB21 (2-4)	09/06/23	HET	1.36	15.8	—	0.497	4.01	7.22	0.405	0.246	4.12	—	25.6	1.8	0.996	—	—	—	—	—	—	—	—	—	—	—	—	—	71.4	7.79	19.3			
SE-SB21 (2-4)	09/06/23	Southland	—	14.9	—	0.230	7.20	4.46	0.540	0.39	3.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB21 (6-8)	09/06/23	HET	1.17	15.8	—	0.548	—	—	0.327	0.193	4.76	—	—	1.8	1.65	—	—	—	—	—	—	—	—	—	—	—	—	—	84.6	7.97	20.3			
SE-SB21 (6-8)	09/06/23	Southland	—	3.35	—	0.110	11.4	1.04	0.660	1.59	1.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB21 (10-12)	09/06/23	HET	7.71	105	—	1.05	—	—	2.96	0.672	6.93	—	—	0.5	0.836	—	—	—	—	—	—	—	—	—	—	—	—	—	49.5	7.44	19.7			
SE-SB21 (10-12)	09/06/23	Southland	—	106	—	0.940	5.65	7.74	2.12	1.05	9.76	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB21 (12-14)	09/06/23	HET	3.25	80.7	—	0.501	—	—	0.9	0.304	3.36	—	—	0.8	0.367	—	—	—	—	—	—	—	—	—	—	—	—	—	133	7.48	29.4			
SE-SB21 (12-14)	09/06/23	Southland	—	67.8	—	0.340	5.04	4.56	0.690	0.490	3.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB21 (14-16)	09/06/23	HET	3.55	59.1	—	0.598	—	—	1.16	0.483	3.82	—	—	1.5	0.492	—	—	—	—	—	—	—	—	—	—	—	—	—	71.8	7.79	27.2			
SE-SB21 (14-16)	09/06/23	Southland	—	44.6	—	0.510	3.66	4.67	1.630	0.88	5.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB21 (18-20)	09/06/23	HET	2.36	44	—	0.494	—	—	0.877	0.344	3.3	—	—	1.4	0.776	—	—	—	—	—	—	—	—	—	—	—	—	—	120	7.77	26.2			
SE-SB21 (18-20)	09/06/23	Southland	—	28.6	—	0.200	4.87	3.36	0.590	0.71	2.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SE-SB21 (20-22)	09/06/23	HET	3.58	63.1	—	0.706	—	—	1.36	0.623	4.31	—	—	2.1	0.722	—	—	—	—	—	—	—	—	—	—	—	—	—	121	8.06	27.4			
SE-SB21 (20-22)	09/06/23	Southland	—	52.2	—	0.300	3.62	2.85	0.920	0.82	2.66	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
B-1 (0-1)	02/25/25	HET	—	—	—	5.83	20.4	39.0	3.62	<0.082	52.5	—	16.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	68.6	—	18.0			
B-1 (1-2)	02/25/25	HET	—	—	—	9.70	29.7	78.3	2.3	0.373	90.5	—	16.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	62.2	—	18.9			
B-1 (14-16)	02/25/25	HET	213	5160	257	21.2	—	—	4.37	1.33	199	187	—	1.2	0.661	—	—	—	—	—	—	—	—	—	—	—	—	—	92.1	8.09	23.5			
B-1 (24-26)	02/25/25	HET	223	4480	218	22.1	—	—	7.53	2.52	203	171	—	1.3	0.475	—	—	—	—	—	—	—	—	—	—	—	—	—	61.4	7.86	18.3			
B-1 (38-40)	02/25/25	HET	28.3	401	—	3.24	—	—	5.90	2.32	20.8	—	—	1.3	1.11	—	—	—	—	—	—	—	—	—	—	—	—	—	23.2	7.66	5.03			
B-1 (42-44)	02/25/25	HET	11	122	—	1.72	—	—	4.07	2.03	9.29	—	—	2.8	2.3	—	—	—	—	—	—	—	—	—	—	—	—	—	37.7	8.14	19.9			
B-1 (48-50)	03/03/25	HET	6.58	167	—	1.05	—	—	2.66	1.2	5.4	—	—	1.8	1.25	—	—	—	—	—	—	—	—	—	—	—	—	—	33.4	8.00	18.3			
B-1 (50-52)	03/03/25	HET	1.16	<20.0	—	0.481	—	—	1.06	0.511	2.73	—	—	2	1.12	—	—	—	—	—	—	—	—	—	—	—	—	—	34.2	8.16	17.3			
B-1 (58-60ˆ)	03/13/25	HET	89.2	1510	66.0	9.14	—	—	26.5																									

Soil Analytical Summary - 29-B Analyses (Limited Admission Area)																																	
Danny Paul Gastal and Ignatius Hoffpauir v. Petrodome Operating, LLC, et al. 15th Judicial District Court; Docket No. 202210495-A Section 32, Township 10 South, Range 01 West Morse Oil and Gas Field Morse, Acadia Parish, Louisiana C&E Legacy Project No. 015-106 HET Project No. 1705.A37																																	
Table 1 Page 14 of 15																																	
Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Oil & Grease	Metals ⁵													Additional Parameters			
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	Sulfate		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	1312	29B	29B	9056		29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	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	%	s.u.	%	
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A	
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A	
LDEQ RECAP MO-1 Soilini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A	
B-4 (0-1)	02/25/25	HET	—	—	—	1.07	9.35	13.5	0.677	0.187	8.88	—	26.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	89	—	18.8		
B-4 (1-2)	02/25/25	HET	—	—	—	1.78	8.59	13.1	1.35	0.876	13.8	—	32.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	119	—	19.1		
B-4 (6-8)	02/27/25	HET	6.43	96.3	—	1.47	—	—	0.728	0.349	12.1	—	—	2.8	4.7	—	—	—	—	—	—	—	—	—	—	—	—	—	94.9	8.60	15.6		
B-4 (14-16)	02/27/25	HET	4.15	67	—	0.728	—	—	0.946	0.525	4.95	—	—	1.8	0.711	—	—	—	—	—	—	—	—	—	—	—	—	—	110	8.25	23.3		
B-4 (16-18)	02/27/25	HET	2.92	55.6	—	0.650	—	—	0.915	0.503	4.51	—	—	2.9	0.347	—	—	—	—	—	—	—	—	—	—	—	—	—	139	8.57	28.4		
B-4 (30-32)	02/27/25	HET	1.89	26.8	—	0.669	—	—	1.57	0.946	3.75	—	—	2.7	1.57	—	—	—	—	—	—	—	—	—	—	—	—	—	60.3	8.33	22		
B-4 (36-38.5)	02/27/25	HET	1.12	<20.0	—	0.516	—	—	1.19	0.587	3.03	—	—	2.5	1.03	—	—	—	—	—	—	—	—	—	—	—	—	—	28.3	8.22	7.87		
B-4 (40-42)	05/28/25	HET	4.88	58	4.39	1.09	—	—	2.78	1.52	5.94	11.4	—	3.2	2.26	—	—	—	—	—	—	—	—	—	—	—	—	—	90.3	8.46	32		
B-4 (48-50)	05/28/25	HET	2.72	<20.0	—	0.758	—	—	1.48	0.769	4.75	—	—	2.2	1.98	—	—	—	—	—	—	—	—	—	—	—	—	—	34.2	8.25	29.3		
B-5 (0-1)	02/25/25	HET	—	—	—	3.43	14.7	31.9	1.1	0.526	28.8	—	18.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.6	—	21.3		
B-5 (1-2)	02/25/25	HET	—	—	—	4.10	9.17	18.9	3.52	1.91	31.2	—	21.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	73.0	—	18.8		
B-5 (14-16)	02/27/25	HET	83.2	2830	—	8.79	—	—	1.35	0.369	79.8	—	—	1.4	0.574	—	—	—	—	—	—	—	—	—	—	—	—	—	219	8.23	22.2		
B-5 (18-20)	02/27/25	HET	96.5	5680	—	9.98	—	—	2.43	0.945	87.7	—	—	0.7	0.275	—	—	—	—	—	—	—	—	—	—	—	—	—	220	7.81	24.4		
B-5 (34-36)	02/27/25	HET	313	4390	216	29.1	—	—	50	24	220	131	—	1.2	0.957	—	—	—	—	—	—	—	—	—	—	—	—	—	44.1	7.55	20		
B-5 (48-50)	02/27/25	HET	98.8	1960	—	10.1	—	—	29.8	14.1	51.7	—	—	1.6	0.904	—	—	—	—	—	—	—	—	—	—	—	—	—	98.4	7.81	30.4		
B-5 (52-54)	03/03/25	HET	—	492	—	5.24	27.2	10.4	16.6	8.84	37.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
B-5 (54-56)	03/03/25	HET	—	109	—	1.33	2.40	3.65	4.67	2.51	6.91	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
B-5 (58-60)	03/11/25	HET	1.96	24.2	—	0.859	—	—	2.57	1.25	4.50	—	—	3.8	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	78.0	8.49	26.6		
B-6 (12-14)	02/26/25	HET	33.3	541	—	3.61	—	—	5.71	3.21	23.1	—	—	0.5	0.172	—	—	—	—	—	—	—	—	—	—	—	—	—	57.5	6.42	28.9		
B-6 (14-16)	02/26/25	HET	22.7	460	—	2.63	—	—	6.16	3.25	13.6	—	—	0.8	0.196	—	—	—	—	—	—	—	—	—	—	—	—	—	89.4	7.25	20.6		
B-6 (32-34)	02/26/25	HET	22.5	194	—	2.70	—	—	10.70	5.2	8.72	—	—	1.3	0.904	—	—	—	—	—	—	—	—	—	—	—	—	—	43.1	7.60	16		
B-6 (46-48)	02/26/25	HET	3.24	46.5	—	0.740	—	—	1.80	0.861	4.39	—	—	2.3	0.989	—	—	—	—	—	—	—	—	—	—	—	—	—	70.3	8.40	23.7		
B-6 (53-55)	05/27/25	HET	2.05	<20.0	—	0.750	—	—	1.80	0.778	4.79	—	—	2.9	2.02	—	—	—	—	—	—	—	—	—	—	—	—	—	65.1	8.48	27.5		
B-7 (2-4)	02/26/25	HET	12.9	190	—	1.65	—	—	2.85	1.41	10.3	—	—	1.3	1.07	—	—	—	—	—	—	—	—	—	—	—	—	—	92.7	6.87	18.8		
B-7 (18-20)	02/26/25	HET	3.7	62.7	—	0.928	—	—	2.82	1.28	4.69	—	—	3.2	1.82	—	—	—	—	—	—	—	—	—	—	—	—	—	128	8.25	24.8		
B-7 (30-32)	02/26/25	HET	4.53	53.2	—	1.10	—	—	5.04	2.04	4.04	—	—	1.8	3.72	—	—	—	—	—	—	—	—	—	—	—	—	—	51	8.10	19.9		
B-7 (44-46)	02/26/25	HET	10.7	87.8	—	1.48	—	—	4.64	2.15	6.46	—	—	1.6	1.3	—	—	—	—	—	—	—	—	—	—	—	—	—	32.3	7.87	18.2		
B-7 (48-50)	05/29/25	HET	8.66	76.3	—	1.18	—	—</																									

Soil Analytical Summary - 29-B Analyses (Limited Admission Area)																																	
Danny Paul Gastal and Ignatius Hoffpauir v. Petrodome Operating, LLC, et al. 15th Judicial District Court; Docket No. 202210495-A Section 32, Township 10 South, Range 01 West Morse Oil and Gas Field Morse, Acadia Parish, Louisiana C&E Legacy Project No. 015-106 HET Project No. 1705.A37																																	
Table 1 Page 15 of 15																																	
Sample ID / Depth (feet)	Sample Date	Sampler	Salinity													Oil & Grease	Metals ⁵													Additional Parameters			
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Alkalinity (Sat. Paste)	Sulfate		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	1312	29B	29B	9056		29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/ cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	meq/L	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	%	s.u.
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	ˆ6-9	N/A	
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A	
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A	
B-9 (48-50')	05/30/25	HET	4.08	24.9	—	0.980	—	—	1.82	1.30	5.9	—	—	2.2	2.86	—	—	—	—	—	—	—	—	—	—	—	—	—	39.8	8.30	26.6		
B-9 (54-56')	05/30/25	HET	2.14	40.3	—	0.737	—	—	2.00	1.05	3.76	—	—	2.8	2.06	—	—	—	—	—	—	—	—	—	—	—	—	—	101	8.39	33.6		
B-9 (58-60')	05/30/25	HET	1.66	24.8	—	0.659	—	—	1.84	0.95	3.4	—	—	2.8	1.97	—	—	—	—	—	—	—	—	—	—	—	—	—	94.4	8.44	28.4		
B-10 (0-1)	06/05/25	HET	—	—	—	2.31	11.4	23.3	1.01	0.449	19.9	—	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	47.2	—	17.6		
B-10 (1-2)	06/05/25	HET	—	—	—	4.54	6.56	15.1	5.72	3.63	32.7	—	26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	68.6	—	18.6		
B-11 (2-4)	06/05/25	HET	10.1	226	—	1.38	—	—	3.24	1.61	7.48	—	—	1.7	0.887	—	—	—	—	—	—	—	—	—	—	—	—	—	79.6	7.33	17.8		
B-11 (8-10)	06/05/25	HET	7.03	143	—	0.931	—	—	0.652	0.354	7.39	—	—	1.1	0.408	—	—	—	—	—	—	—	—	—	—	—	—	—	93.1	7.64	19		
B-11 (20-22)	06/05/25	HET	3.09	49.1	—	0.557	—	—	1.42	0.677	3.03	—	—	1.7	0.325	—	—	—	—	—	—	—	—	—	—	—	—	—	94.9	7.89	26.7		
B-11 (34-36)	06/05/25	HET	0.758	<20.0	—	0.682	—	—	2.83	1.31	2.67	—	—	2.5	3.1	—	—	—	—	—	—	—	—	—	—	—	—	—	39.3	7.9	19.3		
B-11 (40-42)	06/05/25	HET	0.965	<20.0	—	0.728	—	—	3.04	1.06	3	—	—	1.2	4.5	—	—	—	—	—	—	—	—	—	—	—	—	—	30	7.57	12.7		
B-11 (44-46)	06/05/25	HET	2.62	31.7	—	0.83	—	—	2.94	1.41	3.78	—	—	3.5	2.03	—	—	—	—	—	—	—	—	—	—	—	—	—	51.4	8.04	22.9		
B-11 (48-50)	06/05/25	HET	4.77	35.9	—	1.21	—	—	5.19	1.51	5.25	—	—	1.6	5.3	—	—	—	—	—	—	—	—	—	—	—	—	—	33.7	7.75	18.1		
B-11 (52-54)	06/05/25	HET	1.29	<20.0	—	0.683	—	—	2.11	0.974	3.66	—	—	3.3	1.98	—	—	—	—	—	—	—	—	—	—	—	—	—	79.2	8.03	32.4		
B-11 (58-60)	06/05/25	HET	0.6	<20.0	—	0.524	—	—	1.67	0.722	2.77	—	—	3.5	1.28	—	—	—	—	—	—	—	—	—	—	—	—	—	108	7.92	35		
Maximum	N/A	N/A	384	7260	275	35.9	100	156	78.4	33.9	354	220	42.7	6.8	8.25	<0.10	12.7	—	465	623	—	1.05	21.1	23.8	0.0232	<2.01	<0.251	—	31.5	236	8.81	36.5	
C&E Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	10	200	N/A	500	N/A	ˆ6-9	N/A	
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ⁴	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁴	N/A	N/A	N/A	N/A	12	0.2 ⁴	550	N/A	40 ⁴	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A	
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	390	390	N/A	23000	N/A	N/A	N/A	

1 - C&E Statewide Order 29-B standards for Upland Criteria listed for reference purposes only
2 - LDEQ RECAP Non-Industrial Screening Standards (lowest of Soil_{SSNI} and Soil_{SSGW}) per Table 1 of RECAP for comparison purposes only
3 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{NI ONI}) per Table 2 of RECAP listed for comparison purposes only
4 - SPLP standard determined by EPA Water Advisory Limit or LDEQ RECAP Groundwater Screening Standard multiplied by a default attenuation factor of 20 in accordance with LDEQ RECAP guidelines
5 - HET and Southland metal results reported in wet weight
mg/Kg - milligrams per kilogram equivalent to parts per million (ppm)
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

Soil Analytical Summary - RECAP Analyses (Limited Admission Area)																																
Danny Paul Gastal and Ignatius Hoffpauir v. Petrodome Operating, LLC, et al. 15th Judicial District Court; Docket No. 202210495-A Section 32, Township 10 South, Range 01 West Morse Oil and Gas Field Morse, Acadia Parish, Louisiana C&E Legacy Project No. 015-106 HET Project No. 1705.A37																																
Table 2 Page 1 of 1																																
Sample ID / Depth (feet)	Sample Date	Sampler	TPH			VPH			EPH						PAH																	
			TPH-GRO (C6-C10)	TPH-DRO (C10-C28)	TPH-ORO (>C28)	C6-C8 Aliphatics	C8-C10 Aliphatics	C8-C10 Aromatics	C10-C12 Aliphatics	C10-C12 Aromatics	C12-C16 Aliphatics	C12-C16 Aromatics	C16-C21 Aromatics	C16-C35 Aliphatics	C21-C35 Aromatics	2-Methyl- naphthalene	Ace- naphthene	Ace- naphthylene	Anthracene	Benzo(a)- anthracene	Benzo(a)- pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluor-anthene	Fluorene	Indeno (1,2,3- cd) pyrene	Naphthalene	Phen- anthrene	Pyrene	
			8015B	8015B	8015B	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
LDEQ RECAP SS ¹	10/20/03	N/A	65	65	180	1200	120	65	230	100	370	180	150	7100	180	1.7	220	88	120	0.62	0.33	0.62	6.2	62	0.33	220	230	0.62	1.5	660	230	
LDEQ RECAP MO-1 Soilini ²	N/A	N/A	650	650	1800	10000	1200	650	2300	1200	3700	1800	1500	10000	1800	220	3700	3500	22000	0.62	0.33	0.62	6.2	62	0.33	2200	2800	0.62	62	21000	2300	
SE-SB01 (0-2)	05/02/23	Southland	—	20.8	<10.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB01 (2-4)	05/02/23	Southland	—	14.9	10.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB01 (4-6)	05/02/23	Southland	—	23.1 H	16.3 H	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB01 (6-8)	05/02/23	Southland	—	<10.0	<10.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB06 (0-2)	05/04/23	HET	—	—	—	—	—	—	<2.00	<2.00	<2.00	<2.00	<2.00	<4.00	<2.00	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	
SE-SB06 (0-2)	05/04/23	Southland	—	<10.0	33.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB06 (2-4)	05/04/23	HET	—	—	—	<0.437	<1.14	<0.437	<2.00	<2.00	<2.00	<2.00	<2.00	5.18	<2.00	0.00298	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	0.00751	<0.000660	<0.000660	
SE-SB06 (2-4)	05/04/23	Southland	—	<10.0	22.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB06 (4-6)	05/04/23	Southland	—	19.0	37.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB06 (6-8)	05/04/23	Southland	—	<10.0	25.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB06 (8-10)	05/04/23	Southland	—	<10.0	24.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB06 (10-12)	05/04/23	Southland	—	<10.0	27.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB06 (12-14)	05/04/23	HET	—	—	—	<0.468	<1.22	<0.468	<2.00	<2.00	<2.00	<2.00	<2.00	5.50	<2.00	0.000831	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	0.00293	<0.000660	<0.000660	
SE-SB06 (12-14)	05/04/23	Southland	—	<10.0	15.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SE-SB06 (14-16)	05/04/23	HET	—	—	—	0.560	<1.35	<0.519	<2.00	<2.00	<2.00	<2.00	<2.00	<4.00	<2.00	0.000878	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	0.00442	<0.000660	0.001	
SE-SB06 (14-16)	05/04/23	Southland	—	<10.0	<10.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Maximum	N/A	N/A	—	23.1 H	37.5	0.560	<1.35	<0.519	<2.00	<2.00	<2.00	<2.00	<2.00	5.50	<2.00	0.00298	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	<0.000660	0.00751	<0.000660	0.001	
LDEQ RECAP SS ¹	10/20/03	N/A	65	65	180	1200	120	65	230	100	370	180	150	7100	180	1.7	220	88	120	0.62	0.33	0.62	6.2	62	0.33	220	230	0.62	1.5	660	230	
LDEQ RECAP MO-1 Soilini ²	N/A	N/A	650	650	1800	10000	1200	650	2300	1200	3700	1800	1500	10000	1800	220	3700	3500	22000	0.62	0.33	0.62	6.2	62	0.33	2200	2800	0.62	62	21000	2300	

1 - LDEQ RECAP Non-Industrial Screening Standards per Table 1 of LDEQ RECAP for comparison purposes only
2 - LDEQ RECAP Management Option 1 Non-Industrial Standards per Table 2 of RECAP listed for comparison purposes only
H - Holding time for preparation or analysis exceeded
mg/Kg - milligrams per kilogram equivalent to parts per million (ppm)
EPH - Extractable Petroleum Hydrocarbons
PAH - Poly Aromatic Hydrocarbons
VPH - Volatile Petroleum Hydrocarbons
— Not Analyzed
N/A - Not Applicable