

APPENDIX C

TABLES

Deponent
POOLER
Exh No. 5
Date 11/21/22
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August Levert_BP Plan_000172

Soil Analytical Summary - 29-B Analyses (Limited Admission Area 2)

August J. Levert, Jr., Family, LLC, et al. v. BP America Production Company
 18th Judicial District Court, Division "A", Docket No. 078-953
 Grand River Oil and Gas Field
 Northern Half of Fractional Section 15, Township 10 South, Range 11 East
 Iberville Parish, Louisiana
 LDNR OC Legacy Project No. 018-028
 HET Project No. 1009.A62

Table 2
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Sample ID / Depth (feet)	Sample Date	Sampler	Salinity															Metals ¹												Additional Parameters						
			Chloride	Chloride	SPLP Chloride	Bromide (Br)	Bromide (Sat Paste)	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	9058A	1312	9058A	29B	29B	29B	29B	29B	29B	29B	1312	29B	29B	9058	29B	6010B	1312	6010B	29B	1312	6010B	6010B	6010B	7471A	6010B	6010B	6010B	6010B	29B	29B	2640G		
			meq/L	mg/Kg	mg/L	mg/Kg	meq/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.	%	
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<8	<25	<14	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	20000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A			
LDNR Standards ²	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	1	10	N/A	N/A	20000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A			
LDEQ RECAP SS ³	N/A	N/A	N/A	N/A	5000 ⁵	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁵	N/A	N/A	N/A	N/A	12	0.2 ⁵	550	N/A	40 ⁵	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A			
LDEQ RECAP MO-1 Soil ⁴	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	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			
HA-1 (0-2)	08/29/19	ICON	—	—	—	—	—	1.31	3.66	5.40	2.59	1.32	7.54	—	56.5	—	—	9.36	3.20	—	124	539	—	0.357	9.72	11.7	<0.107	<3.87	—	136	43.6	—	—	45.7		
HA-1 (0-2)	08/29/19	HET	5.88	45.1	—	—	—	1.50	2.39	4.96	3.69	1.69	8.13	—	48.3	1.2	7.15	8.40	5.60	—	104	785	—	<2.5	18.4	13.7	<0.080	<5.0	<5.0	240	63.1	90.6	6.74	51.8		
HA-1 (2-4)	08/29/19	ICON	—	—	—	—	—	1.55	8.85	13.0	1.03	0.52	11.4	—	55.3	—	—	0.160	5.36	—	215	573	—	0.394	13.1	10.7	<0.0996	<3.96	—	163	44.2	—	—	37.7		
HA-1 (2-4)	08/29/19	HET	15	121	—	—	—	2.72	6.09	14.8	2.13	0.991	18.5	—	48.7	2.0	7.92	—	<4.6	—	185	1170	—	<2.3	13.2	11.0	<0.071	<4.6	<4.6	119	46.7	116	7.48	48.2		
HA-01R (2-4)	06/23/22	HET	—	—	—	—	—	—	—	9.32	1.62	0.672	9.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	129	—	—	57.4		
LT-2 (0-4)	09/28/19	ICON	—	—	—	—	—	1.25	6.28	8.51	1.33	0.87	8.93	—	109	—	—	—	5.95	—	167	360	—	<0.489	15.2	13.3	<0.103	<3.91	—	62.9	60.7	—	—	33.1		
LT-2 (4-8)	09/28/19	ICON	—	—	152*	—	—	2.82	7.38	11.1	3.27	1.81	17.7	—	135	—	—	—	3.29	—	158	365	—	0.398	9.82	9.94	<0.101	<3.93	—	54.0	38.9	—	—	42.9		
LT-2 (12-16)	09/28/19	ICON	—	—	—	—	—	6.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31.1		
SB-17 (0-2)	06/23/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60.2	
SB-17 (0-2)	06/23/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-18 (0-2)	06/23/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	63.3	
SB-19 (0-2)	06/23/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	57.6	
SB-20 (0-2)	06/23/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	59.9	
SB-21 (0-2)	06/23/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	41.1	
SB-21 (0-2)	06/23/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.81	—	936	6910	—	—	—	—	—	—	—	—	—	—	—	—	31.7
SB-22 (0-2)	06/23/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	39.7	
SB-22 (0-2)	06/23/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.46	—	352	3150	—	—	—	—	—	—	—	—	—	—	—	—	35.6
SB-23 (0-2)	06/23/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	36.2	
SB-23 (0-2)	06/23/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.83	—	133	492	—	—	—	—	—	—	—	—	—	—	—	—	34.2
SB-24 (0-2)	06/23/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	38.9	
SB-24 (0-2)	06/23/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.09	—	117	537	—	—	—	—	—	—	—	—	—	—	—	—	34.9
Maximum	N/A	N/A	15	121	152*	—	—	6.01	8.85	14.8	3.69	1.81	18.5	—	135	2.0	7.92	11.2	5.95	—	936	6910	—	0.398	18.4	13.7	<0.107	<5.0	<5.0	240	63.1	129	7.48	63.3		
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<8	<25	<14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	20000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A		
LDNR Standards ²	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	N/A	1	10	N/A	N/A	20000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A		
LDEQ RECAP SS ³	N/A	N/A	N/A	N/A	5000 ⁵	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁵	N/A	N/A	N/A	N/A	12	0.2 ⁵	550	N/A	40 ⁵	3.9	100	100	2.3	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soil ⁴	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	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 - LDNR Statewide Order 29-B standards for Elevated Welland Criteria listed for reference purposes only
 2 - LDNR Statewide Order 29-B standards for Submerged Welland Criteria listed for reference purposes only
 3 - RECAP Non-Industrial Screening Standards (lowest of Soil_{SSN} and Soil_{SSOW}) per Table 1 of RECAP for comparison purposes only
 4 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{INON}) per Table 2 of RECAP listed for comparison purposes only
 5 - 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
 6 - HET metal results reported in wet weight, ICON metal results converted to wet weight
 * - 29B Leachate Chloride analysis instead of SPLP Chloride analysis
 mg/Kg - milligrams per kilogram equivalent to parts per million (ppm)
 mmhos/cm - milli mhos per centimeter
 mg/L - milligrams per liter
 meq/L - milli equivalents per liter
 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 2)

August J. Levert, Jr., Family, LLC, et al. v. BP America Production Company
 18th Judicial District Court, Division "A", Docket No. 078-953
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Table 3
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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	Ac-naphthene	Ac-naphthylene	Anthracene	Benzo(a)-anthracene	Benzo(e)-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	TX1008/MA	TX1008/MA	TX1008/MA	TX1008/MA	TX1008/MA	TX1008/MA	TX1008/MA	TX1008/MA	TX1008/MA	TX1008/MA	TX1008/MA	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D	8270D
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 Soilni 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
HA-1 (0-2)	08/29/19	ICON	—	14000	16400	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-1 (0-2)	08/29/19	HET	—	—	—	<25.0	<25.0	<25.0	<25.0	<25.0	54.4	60.0	159	449	875	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-1 (2-4)	08/29/19	ICON	—	103	139	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-1 (2-4)	08/29/19	HET	—	—	—	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-17 (0-2)	06/23/22	HET	—	—	—	9.98	29.8	10.3	<20.0	11.1	49.1	132	81.5	682	20.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-17 (0-2)	06/23/22	ICON	—	5440	5290	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-18 (0-2)	06/23/22	HET	—	—	—	10.6	44.1	15.3	<20.0	7.30	74.2	70.2	23.7	621	10.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-19 (0-2)	06/23/22	HET	—	—	—	3.84	14.0	12.6	<20.0	3.89	141	21.8	23.2	1280	2.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-20 (0-2)	06/23/22	HET	—	—	—	5.30	14.6	5.92	<20.0	18.0	141	207	168	1820	21.6	<0.0113	<0.0113	0.0178	0.016	<0.0113	0.021	<0.0113	<0.0113	0.0177	<0.0113	0.0205	0.053	<0.0113	<0.0113	0.0149	0.0294
SB-21 (0-2)	06/23/22	HET	—	—	—	<3.51	<7.03	<4.68	<2.00	<1.00	3.68	4.63	6.56	60.7	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-22 (0-2)	06/23/22	HET	—	—	—	<3.58	<7.16	<4.77	<2.00	<1.00	<2.00	<2.00	<2.00	5.36	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-23 (0-2)	06/23/22	HET	—	—	—	<2.99	<5.98	<3.98	<2.00	<1.00	<2.00	<2.00	<2.00	13.5	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-24 (0-2)	06/23/22	HET	—	—	—	<3.11	<6.21	<4.14	<2.00	<1.00	<2.00	<2.00	<2.00	5.88	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Maximum	N/A	N/A	—	14000	16400	10.6	44.1	15.3	<25.0	18.0	141	207	168	1820	875	<0.0113	<0.0113	0.0178	0.016	<0.0113	0.021	<0.0113	<0.0113	0.0177	<0.0113	0.0205	0.053	<0.0113	<0.0113	0.0149	0.0294
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 Soilni 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
 MA - Massachusetts Method
 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

Soil Analytical Summary - 29-B Analyses (Limited Admission Area 3)

August J. Levert, Jr., Family, LLC, et al. v. BP America Production Company
 18th Judicial District Court, Division "A", Docket No. 078-953
 Grand River Oil and Gas Field
 Northern Half of Fractional Section 15, Township 10 South, Range 11 East
 Iberville Parish, Louisiana
 LDNR OC Legacy Project No. 018-028
 HET Project No. 1009.A62

Table 4
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Sample ID / Depth (feet)	Sample Date	Sampler	Salinity															Metals ⁶											Additional Parameters					
			Chloride	Chloride	SPLP Chloride	Bromide (B)	Bromide (Sat Paste)	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	Chromium (Total/SPLP)	Lead (Total/SPLP)	Total Mercury	Total Selenium	Total Silver	Strontium (Total/SPLP)	Zinc (Total/SPLP)	Saturation %	pH (Saturated Paste)	% Moisture
			28B	9056A	1312	9056A	29B	29B	29B	29B	29B	29B	29B	1312	28B	29B	9056	29B	8010B	1312	6010B	29B	1312	6010B	6010B / 1312	6010B / 1312	7471A	6010B	6010B	6010B / 1312	6010B / 1312	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mg/Kg	meq/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/L	mg/Kg / mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg / mg/L	mg/Kg / mg/L	%	s.u.	%
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<8	<25	<14	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	20000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A	
LDNR Standards ²	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	1	10	N/A	N/A	20000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A	
LDEQ RECAP SS ³	N/A	N/A	N/A	N/A	5000 ⁵	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁵	N/A	N/A	N/A	N/A	12	0.2 ⁵	550	N/A	40 ⁵	3.9	100 / 2 ⁵	100 / 0.3 ⁵	2.3	20	39	N/A	2300 / 22 ⁵	N/A	N/A	N/A	
LDEQ RECAP MO-1 Solini ⁴	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	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	
Eastern Pit																																		
SB-01 (0-2)	06/21/22	HET	1.09	16.7	—	<2.00	<0.050	0.467	0.580	1.14	2.07	0.983	1.41	—	68.7	1.5	1.13	<0.10	3.64	—	1380	25800	—	0.529	176	56	0.0316	<1.00	<0.500	—	79.7	122	6.82	36.8
SB-1 (0-2)	06/21/22	ICON	—	—	—	—	—	0.520	0.770	1.13	2.06	1.03	1.4	—	74.3	—	—	—	2.26	—	1793	51900	—	—	—	—	—	—	—	—	—	—	—	41.2
SB-01 (2-4)	06/21/22	HET	2.46	46.9	—	<2.00	<0.050	0.750	1.03	2.20	3.37	1.28	3.36	—	67.4	2.9	1.51	<0.10	3.10	—	743	9570	—	0.226	30.3	14.8	<0.0133	<1.00	<0.500	—	41.3	138	7.42	52.2
SB-1 (2-4)	06/21/22	ICON	—	—	—	—	—	1.14	1.62	1.99	4.68	2.27	3.71	—	77.4	—	—	—	3.67	—	1451	33700	—	—	—	—	—	—	—	—	—	—	—	44.2
SB-02 (0-2)	06/21/22	HET	2	27.5	—	<2.00	<0.050	0.656	0.632	1.42	2.93	1.37	2.08	—	57.8	2.5	1.31	<0.10	3.71	—	789	64400	—	0.267	48.2	30.3	0.113	<1.00	<0.500	—	55.5	98.4	7.32	47
SB-02 (2-4)	06/21/22	HET	1.06	18.8	—	<2.00	<0.050	0.462	0.670	1.37	2.08	0.934	1.68	—	64.3	2.5	0.691	<0.10	3.29	—	1780	17900	—	<0.200	23.8	18.3	0.0945	<1.00	<0.500	—	51.7	120	7.41	40
SB-03 (0-2)	06/21/22	HET	1.07	20	—	3.01	<0.050	0.740	0.577	1.17	4.01	1.59	1.96	—	40.2	4.8	0.365	0.25	7.47	—	442	207000	5.06	0.513	517 / 0.0522	186 / 0.0202	0.0728	<1.00	0.696	—	149	98.4	7.62	35.4
SB-3 (0-2)	06/21/22	ICON	—	—	—	—	—	0.780	1.11	1.22	3.7	1.62	1.99	—	25.8	—	—	—	7.96	—	2990	412000	—	0.434	319	200	0.743	—	—	145	137	—	—	33.7
SB-03 (2-4)	06/21/22	HET	2.19	45	—	3.23	<0.050	0.747	1.18	2.61	2.71	1.12	3.61	—	64.3	3.8	1.19	<0.10	2.02	—	1250	8300	—	<0.200	17.1	12.1	0.584	<1.00	<0.500	—	44.8	128	7.62	41.2
SB-3 (2-4)	06/21/22	ICON	—	—	—	—	—	0.590	2.56	2.45	1.6	0.81	2.69	—	60.5	—	—	—	2.03	—	700	12100	—	<0.495	11.2	9.34	<0.106	—	—	33.9	38.6	—	—	36.9
SB-04 (0-2)	06/21/22	HET	1.24	11.3	—	3.86	<0.050	0.768	0.554	1.16	4.26	1.43	1.95	—	23.1	4	0.492	<0.10	11.8	<0.0277	276	301000	3.63	0.457	413 / 0.118	209 / 0.086	0.0512	<1.00	1.22	—	164	67.7	7.81	28.7
SB-4 (0-2)	06/21/22	ICON	—	—	—	—	—	0.640	1.38	1.07	2.87	1.17	1.52	—	7.91	—	—	—	10.2	—	3236	439000	—	0.467	168	203	0.949	—	—	153	142	—	—	23.5
SB-04 (2-4)	06/21/22	HET	2.71	44	—	3.36	<0.050	0.720	1.52	3.30	2.15	0.899	4.07	—	59.6	2.9	0.764	0.10	5.65	—	2470	43900	7.1	0.353	21.4	21.3	1.13	<5.00	<0.500	—	55.6	121	7.99	30.4
SB-4 (2-4)	06/21/22	ICON	—	—	—	—	—	0.730	2.37	2.71	1.99	1.03	3.33	—	29	—	—	—	6.45	—	2588	434000	—	0.356	48.3	105	0.393	—	—	80.3	91.1	—	—	28.3
SB-04 (4-8)	06/21/22	HET	5.62	67.9	—	<2.00	<0.050	1.12	1.53	3.50	3.67	1.6	5.68	—	70.9	3.7	1.02	<0.10	<2.00	—	469	5370	—	0.204	10.4	10.1	0.0668	<1.00	<0.500	—	37.8	119	7.70	46.4
SB-05R (0-2)	09/27/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.52	—	278	219	—	1.27	20.7	13.2	0.0529	<0.500	<0.250	—	57.7	—	—	28.5
SB-05R (0-2)	09/27/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.99	—	238	467	—	<0.997	18.9	15.0	—	<7.98	—	31.1	66.6	—	—	27.4
SB-05 (2-4)	06/21/22	HET	0.771	13.6	—	<2.00	<0.050	0.431	0.645	1.22	1.96	0.982	1.48	—	53.9	2.6	0.436	<0.10	3.27	—	1830	90100	—	<0.200	121	60.3	0.0443	<1.00	<0.500	—	57.3	98.8	7.28	35
SB-5 (2-4)	06/21/22	ICON	—	—	—	—	—	0.340	0.900	1.02	1.41	0.73	1.05	—	63.1	—	—	—	3.15	—	2970	116000	—	—	—	—	—	—	—	—	—	—	—	33.4
SB-05 (4-8)	06/21/22	HET	1.43	21.3	—	<2.00	<0.050	0.630	0.661	1.96	2.52	1.19	2.67	—	63.5	3	1.31	<0.10	2.13	—	1330	6060	—	<0.200	20.2	13.4	0.0335	<1.00	<0.500	—	47.2	121	7.56	39.7
SB-5 (4-8)	06/21/22	ICON	—	—	—	—	—	0.320	1.52	1.14	1.1	0.59	1.05	—	66.6	—	—	—	2.24	—	1692	16900	—	—	—	—	—	—	—	—	—	—	—	34.4
SB-05R (6-8)	09/27/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	544	—	—	—	—	—	—	—	—	—	—	—	—	45.1
SB-05R (6-8)	09/27/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	668	—	—	—	—	—	—	—	—	—	—	—	—	45.7
SB-06R (0-2)	09/27/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.66	—	117	394	—	1.20	19.0	12.2	0.0493	<0.500	<0.250	—	56.1	—	—	29.8
SB-06R (0-2)	09/27/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	<3.92	—	159	336	—	—	—	—	—	—	—	—	—	—	—	24.6
SB-06 (2-4)	06/21/22	HET	3.09	79	—	<2.00	<0.050	1.41	1.40	1.72	6.56	4.01	3.95	—	66.5	0.8	11.3	<0.10	3.54	—	154	772	—	<0.200	13.6	11.1	0.0361	<1.00	<0.500	—	52.3	119	6.69	31.5
SB-6 (2-4)	06/21/22	ICON	—	—	—	—	—	1.45	1.57	1.34	6.86	4.05	3.14	—	79	—	—	—	3.48	—	511	3770	—	—	—	—	—	—	—	—	—	—	—	26.2
SB-06 (4-8)	06/21/22	HET	4.53	106	—	<2.00	<0.050	1.68	1.60	2.30	7.72	4.29	5.63	—	63.9	1.7	12.1	<0.10	2.56	—	173	566	—	<0.200	16.0	10.9	1.05	<1.00	<0.500	—	43.9	123	7.13	39.7
SB-6 (4-8)	06/21/22	ICON	—	—	—	—	—	1.38	2.16	1.66	6.14	3.18	3.59	—	70.4	—	—	—	2.43	—	461	5430	—	—	—	—	—	—	—	—	—	—	—	34.1
SB-07R (0-2)	09/27/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.39	—	125	432	—	1.08	18.2	9.98	0.0409	<0.500	<0.250	—	48.4	—	—	33.7
SB-07R (0-2)	09/2																																	

Soil Analytical Summary - 29-B Analyses (Limited Admission Area 3)

August J. Levert, Jr., Family, LLC, et al. v. BP America Production Company
 18th Judicial District Court, Division "A", Docket No. 078-953
 Grand River Oil and Gas Field
 Northern Half of Fractional Section 15, Township 10 South, Range 11 East
 Iberville Parish, Louisiana
 LDNR OC Legacy Project No. 018-028
 HET Project No. 1009.A62

Table 4
 Page 2 of 3

Sample ID / Depth (feet)	Sample Date	Sampler	Salinity															Metals ¹												Additional Parameters				
			Chloride	Chloride	SPLP Chloride	Bromide (Br)	Bromide (Sat Paste)	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	Chromium (Total/SPLP)	Lead (Total/SPLP)	Total Mercury	Total Selenium	Total Silver	Strontium (Total/SPLP)	Zinc (Total/SPLP)	Saturation %	pH (Saturated Paste)	% Moisture
			29B	9056A	1312	9056A	29B	29B	29B	29B	29B	29B	29B	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B / 1312	6010B / 1312	7471A	6010B	6010B	6010B / 1312	6010B / 1312	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mg/Kg	meq/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/L	mg/Kg / mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg / mg/L	mg/Kg / mg/L	%	s.u.	%
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<8	<25	<14	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	20000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A	
LDNR Standards ²	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	1	10	N/A	N/A	20000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A	
LDEQ RECAP SS ³	N/A	N/A	N/A	N/A	5000 ⁵	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁵	N/A	N/A	N/A	N/A	12	0.2 ⁵	550	N/A	40 ⁵	3.9	100 / 2 ⁵	100 / 0.3 ⁵	2.3	20	39	N/A	2300 / 22 ⁵	N/A	N/A	N/A		
LDEQ RECAP MO-1 Solini ⁴	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	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	
SB-26 (0-2)	09/27/22	HET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	131	410	---	---	---	---	---	---	---	---	---	---	---	---	30.1	
SB-26 (0-2)	09/27/22	ICON	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	165	481	---	---	---	---	---	---	---	---	---	---	---	---	28.9	
SB-26 (2-4)	09/27/22	HET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	107	426	---	---	---	---	---	---	---	---	---	---	---	---	37.1	
SB-26 (2-4)	09/27/22	ICON	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	151	395	---	---	---	---	---	---	---	---	---	---	---	---	36.1	
SB-27 (0-2)	09/27/22	HET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	110	448	---	---	---	---	---	---	---	---	---	---	---	---	35.8	
SB-27 (0-2)	09/27/22	ICON	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	255	737	---	---	---	---	---	---	---	---	---	---	---	---	34.9	
Western Pit																																		
HA-2 (0-2)	08/29/19	ICON	---	---	---	---	---	0.940	1.62	3.01	3.15	1.3	4.49	---	35.7	---	---	12.4	13.4	---	2084	265000	---	4.32	250	406	1.19	<3.69	---	193	775	---	---	42.6
HA-2 (0-2)	08/29/19	HET	2.5	12	---	---	---	0.877	0.897	2.95	2.04	1.07	3.68	---	54.3	1.4	4.51	1.20	<5.0	<0.10	5120	25700	2.7	<2.5	38 / <0.10	49.1 / <0.10	<0.069	<5.0	<5.0	171 / <0.10	99.2 / <0.10	107	6.69	57.4
HA-2 (2-4)	08/29/19	ICON	---	---	---	---	---	1.46	8.11	10.8	1.44	0.72	11.2	---	65.5	---	---	2.13	3.91	---	531	3900	---	0.382	10.2	10.6	<0.0984	<3.85	---	136	34.8	---	---	48.4
HA-2 (2-4)	08/29/19	HET	3.01	33.1	---	---	---	2.42	3.27	10.0	4.38	1.53	17.2	---	44.8	3.8	14.7	0.20	<5.0	---	560	1920	---	<2.5	15.3	13.9	<0.074	<5.0	<5.0	171	51.9	116	7.91	50.9
LT-3 (0-4)	09/26/19	ICON	---	---	---	---	---	0.610	6.11	6.05	0.68	0.43	4.52	---	86.1	---	---	---	4.89	---	168	361	---	<0.465	24.3	12.9	<0.101	<3.72	---	52.3	58.1	---	---	31.6
LT-3 (4-8)	09/26/19	ICON	---	---	37.9*	---	---	0.670	6.81	6.94	0.61	0.4	4.92	---	72.7	---	---	---	5.30	---	354	1240	---	<0.490	13.5	11.5	<0.106	<3.92	---	59.8	47.6	---	---	38.3
SB-09 (0-2)	06/22/22	HET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.10	<2.00	---	204	2130	---	0.312	7.36	7.76	0.0135	<1.00	<0.500	---	39.5	---	---	63.6
SB-09 (2-4)	06/22/22	HET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.43	5.47	---	325	84300	---	1.43	107	123	0.0415	<1.00	0.829	---	246	---	---	44.1
SB-9 (2-4)	06/22/22	ICON	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7.67	---	2156	160000	---	---	---	---	---	---	---	---	---	---	39.6	
SB-09 (4-8)	06/22/22	HET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.45	<2.00	---	66.7	1490	---	<0.200	6.91	5.27	0.0599	<1.00	<0.500	---	19.3	---	---	63.4
SB-09 (6-8)	06/22/22	HET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.10	<2.00	---	113	1600	---	<0.200	6.68	7.24	0.0305	<1.00	<0.500	---	27.3	---	---	51.7
SB-10 (0-2)	06/22/22	HET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.10	<2.00	---	53.4	5750	---	0.26	10.8	10.1	0.0207	<1.00	<0.500	---	39.1	---	---	65.7
SB-10 (0-2)	06/22/22	ICON	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2.55	---	1355	21600	---	---	---	---	---	---	---	---	---	---	59.8	
SB-10 (2-4)	06/22/22	HET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3.64	8.40	---	411	200000	---	2.09	155	192	0.679	<1.00	1.27	---	370	---	---	50.5
SB-10 (2-4)	06/22/22	ICON	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2.36	---	1299	84500	---	---	---	---	---	---	---	---	---	---	---	44
SB-10 (4-8)	06/22/22	HET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.31	2.41	---	160	2900	---	0.201	5.67	6.74	0.0299	<1.00	<0.500	---	21.9	---	---	65.5
SB-10 (4-8)	06/22/22	ICON	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2.87	---	235	2620	---	---	---	---	---	---	---	---	---	---	---	51.5
SB-10 (6-8)	06/22/22	HET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.57	<2.00	---	58.7	1030	---	0.216	5.15	4.31	0.0384	<1.00	<0.500	---	22.1	---	---	67.1
SB-11 (0-2)	06/22/22	HET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.20	2.48	---	120	14000	---	0.44	46.5	25	0.105	<1.00	<0.500	---	62.3	---	---	57.7
SB-11 (0-2)	06/22/22	ICON	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.05	3.23	---	1425	102000	---	0.629	74.7	46.5	0.199	---	---	85.0	104	---	---	61.9
SB-11 (2-4)	06/22/22	HET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1.86	16.7	<0.0277	174	239000	22	4.28	286 / 0.485	387 / 0.493	1.33	<1.00	3.54	---	733	---	---	50.6
SB-11 (2-4)	06/22/22	ICON	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.14	15.7	---	1140	320000	---	5.02	183	435	1.17	---	---	251	777	---	---	44.1
SB-11 (4-8)	07/29/22	HET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.10	2.72	---	125	463	---	0.299	15.9	8.9	0.0287	<0.500	<0.250	---	44.5	---	---	44.8
SB-11 (6-8)	07/29/22	HET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.10	2.89	---	120	491	---	0.249	14.8	8.73	0.034	<0.500	<0.250	---	42.5	---	---	46.1
SB-12 (0-2)	06/22/22	HET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.10	2.06	---	564	7510	---	0.319	10.8	13	1.14	<1.00	<0.500	---	50.9	---	---	57.8
SB-12 (0-2)	06/22/22	ICON	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.05	1.83	---	462	6510	---	0.289	7.63	7.93	<0.109	---	---	34.1	37.3	---	---	65.6
SB-12 (2-4)	06/22/22	HET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.24	23.3	---	336	307000	5.12	5.22	401 / 0.148	468 / 0.16	0.0722	<1.00	4.15	---	936	---	---	40.7
SB-12 (2-4)	06/22/22	ICON	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.21	47.3	---	1135	323000	---	9.96	133	818	1.59	---	---	390	1608	---	---	22.8
SB-13 (0-2)	06/22/22	HET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.10	4.09	---	666	9640	---	0.468	18.7	25.9	0.0446	<1.00	<0.500	---	72.			

Soil Analytical Summary - 29-B Analyses (Limited Admission Area 3)

August J. Levert, Jr., Family, LLC, et al. v. BP America Production Company
 18th Judicial District Court, Division "A", Docket No. 078-953
 Grand River Oil and Gas Field
 Northern Half of Fractional Section 15, Township 10 South, Range 11 East
 Iberville Parish, Louisiana
 LDNR OC Legacy Project No. 018-028
 HET Project No. 1009.A62

Table 4
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Sample ID / Depth (feet)	Sample Date	Sampler	Salinity															Metals ⁶											Additional Parameters					
			Chloride	Chloride	SPLP Chloride	Bromide (Br)	Bromide (Sat Paste)	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	Chromium (Total/SPLP)	Lead (Total/SPLP)	Total Mercury	Total Selenium	Total Silver	Strontium (Total/SPLP)	Zinc (Total/SPLP)	Saturation %	pH (Saturated Paste)	% Moisture
			29B	9056A	1312	9056A	29B	29B	29B	29B	29B	29B	29B	1312	29B	29B	9056	29B	8010B	1312	8010B	29B	1312	8010B	8010B / 1312	8010B / 1312	7471A	8010B	8010B	8010B	8010B / 1312	8010B / 1312	29B	29B
meq/L	mg/Kg	mg/L	mg/Kg	meq/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	meq/L	meq/100g	meq/L	meq/L	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg / mg/L	mg/Kg / mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg / mg/L	mg/Kg / mg/L	%	s.u.	%		
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<8	<25	<14	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	20000	N/A	10	500	500	10	10	200	N/A	500	N/A	'6-9	N/A	
LDNR Standards ²	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	1	10	N/A	N/A	20000	N/A	10	500	500	10	10	200	N/A	500	N/A	'6-9	N/A	
LDEQ RECAP SS ³	N/A	N/A	N/A	N/A	5000 ⁵	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁵	N/A	N/A	N/A	N/A	12	0.2 ⁵	550	N/A	40 ⁵	3.9	100 / 2 ⁵	100 / 0.3 ⁵	2.3	20	39	N/A	2300 / 22 ⁵	N/A	N/A	N/A	
LDEQ RECAP MO-1 Solini ⁴	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	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	
SB-14 (0-2)	06/23/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.10	3.67	—	175	<500	—	0.37	13.6	13.5	0.130	<1.00	<0.500	—	55.8	—	—	40.1	
SB-14 (0-2)	08/23/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.06	—	150	4050	—	—	—	—	—	—	—	—	—	—	—	39.2	
SB-14 (2-4)	06/23/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.10	3.63	—	170	616	—	0.293	12.8	10.8	0.902	<1.00	<0.500	—	50.4	—	—	38.8	
SB-14 (2-4)	06/23/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.27	—	588	6840	—	—	—	—	—	—	—	—	—	—	—	36.7	
SB-14 (4-8)	06/23/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.10	2.92	—	144	518	—	0.265	11	10.5	0.036	<1.00	<0.500	—	41.6	—	—	42.4	
SB-14 (6-8)	06/23/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.10	2.04	—	139	<500	—	<0.200	10	9.85	0.0318	<1.00	<0.500	—	36.4	—	—	44.2	
SB-14 (6-8)	06/23/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.08	—	248	3360	—	—	—	—	—	—	—	—	—	—	—	53.3	
SB-15 (0-2)	06/23/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.10	3.01	—	168	539	—	0.435	12.4	12.5	0.0357	<1.00	<0.500	—	59.8	—	—	41.4	
SB-15 (0-2)	06/23/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.71	—	170	762	—	—	—	—	—	—	—	—	—	—	—	34.3	
SB-15 (2-4)	06/23/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.10	3.50	—	143	<500	—	0.261	13	10.8	0.0400	<1.00	<0.500	—	49.5	—	—	39.2	
SB-15 (2-4)	06/23/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.28	—	196	1470	—	—	—	—	—	—	—	—	—	—	—	34.1	
SB-15 (4-8)	06/23/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.10	3.47	—	173	537	—	0.254	11.9	9.43	0.0372	<1.00	<0.500	—	45.3	—	—	41.2	
SB-15 (6-8)	06/23/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.10	4.24	—	131	3920	—	0.254	9.84	10.6	0.0429	<1.00	<0.500	—	36.9	—	—	43.4	
SB-15 (6-8)	06/23/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.54	—	127	618	—	—	—	—	—	—	—	—	—	—	—	41.8	
SB-16 (0-2)	06/23/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.10	4.34	—	132	589	—	0.374	11.1	11.7	0.0444	<1.00	<0.500	—	48.4	—	—	43.6	
SB-16 (0-2)	06/23/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.25	—	608	4960	—	—	—	—	—	—	—	—	—	—	—	39.8	
SB-16 (2-4)	06/23/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.10	3.41	—	151	570	—	0.26	12	10	0.0343	<1.00	<0.500	—	46.8	—	—	41.9	
SB-16 (2-4)	06/23/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.00	—	221	723	—	—	—	—	—	—	—	—	—	—	—	37	
SB-16 (4-8)	06/23/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.10	2.27	—	135	<500	—	<0.200	11	9.77	0.0349	<1.00	<0.500	—	42.0	—	—	42.4	
SB-16 (6-8)	06/23/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.100	2.18	—	147	<500	—	0.272	9.76	8.40	0.0326	<1.00	<0.500	—	29.2	—	—	44.1	
SB-16 (6-8)	06/23/22	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.26	—	234	1170	—	—	—	—	—	—	—	—	—	—	—	46.5	
Maximum	N/A	N/A	5.82	106	37.9*	3.86	<0.050	2.42	8.11	10.8	7.72	4.29	17.2	—	86.1	4.8	14.7	12.4	47.3	<0.10	5120	439000	22	9.96	517 / 0.485	818 / 0.493	1.59	<5.0	4.15	390 / <0.10	1606 / <0.10	138	7.99	67.1
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<8	<25	<14	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	20000	N/A	10	500	500	10	10	200	N/A	500	N/A	'6-9	N/A	
LDNR Standards ²	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	1	10	N/A	N/A	20000	N/A	10	500	500	10	10	200	N/A	500	N/A	'6-9	N/A	
LDEQ RECAP SS ³	N/A	N/A	N/A	N/A	5000 ⁵	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁵	N/A	N/A	N/A	N/A	12	0.2 ⁵	550	N/A	40 ⁵	3.9	100 / 2 ⁵	100 / 0.3 ⁵	2.3	20	39	N/A	2300 / 22 ⁵	N/A	N/A	N/A	
LDEQ RECAP MO-1 Solini ⁴	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	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 - LDNR Statewide Order 29-B standards for Elevated Wetland Criteria listed for reference purposes only
 2 - LDNR Statewide Order 29-B standards for Submerged Wetland Criteria listed for reference purposes only
 3 - RECAP Non-Industrial Screening Standards (lowest of Soil_{SSM} and Soil_{SSGW}) per Table 1 of RECAP for comparison purposes only
 4 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{MO-1}) per Table 2 of RECAP listed for comparison purposes only
 5 - 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
 6 - HET metal results reported in wet weight, ICON metal results converted to wet weight
 7 - Represents confirmatory analyses performed by SGS North America on prepared (i.e., dried and crushed) sample retains obtained from Waypoint Analytical.
 8 - Represents confirmatory analyses performed by SGS North America on as-received (i.e., wet weight) sample retains obtained from Waypoint Analytical.
 * - 29B Leachate Chloride analysis instead of SPLP Chloride analysis
 mg/Kg - milligrams per kilogram equivalent to parts per million (ppm)
 mmhos/cm - milli mhos per centimeter
 mg/L - milligrams per liter
 meq/L - milli equivalents per liter
 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 3)

August J. Levert, Jr., Family, LLC, et al. v. BP America Production Company
 18th Judicial District Court, Division "A", Docket No. 078-953
 Grand River Oil and Gas Field
 Northern Half of Fractional Section 15, Township 10 South, Range 11 East
 Iberville Parish, Louisiana
 LDNR OC Legacy Project No. 018-028
 HET Project No. 1009.A62

Table 5
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Sample ID / Depth (feet)	Sample Date	Sampler	TPH			VPH			EPH							PAH															
			TPH-GRO (C8-C10)	TPH-DRO (C10-C28)	TPH-ORO (>C28)	C8-C9 Aliphatics	C8-C10 Aliphatics	C8-C10 Aromatics	C10-C12 Aliphatics	C10-C12 Aromatics	C12-C18 Aliphatics	C12-C18 Aromatics	C18-C21 Aromatics	C18-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 mg/Kg	8015B mg/Kg	8015B mg/Kg	TX1006/MA mg/Kg	TX1006/MA mg/Kg	TX1006/MA mg/Kg	TX1006/MA mg/Kg	TX1006/MA mg/Kg	TX1006/MA mg/Kg	TX1006/MA mg/Kg	TX1006/MA mg/Kg	TX1006/MA mg/Kg	TX1006/MA mg/Kg	TX1006/MA mg/Kg	8270D mg/Kg	8270D mg/Kg	8270D mg/Kg	8270D mg/Kg	8270D mg/Kg	8270D mg/Kg	8270D mg/Kg	8270D mg/Kg	8270D mg/Kg	8270D mg/Kg	8270D mg/Kg	8270D mg/Kg	8270D mg/Kg	8270D mg/Kg	8270D 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 Soil 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
Eastern Pit																															
SB-03 (0-2)	06/21/22	HET	—	—	—	8.09	22.3	6.2	<2.00	4.04	23.2	20.6	2.96	69.6	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-3 (0-2)	06/21/22	ICON	—	1430	229	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-03 (2-4)	06/21/22	HET	—	—	—	<2.98	6.11	15.1	<2.00	<1.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-3 (2-4)	06/21/22	ICON	—	10.4	13.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-04 (0-2)	06/21/22	HET	—	—	—	6.8	17.1	4.85	57.0	76.0	361	208	28.2	442	<20.0	4.01	0.46	<0.0215	0.186	<0.0215	<0.0215	<0.0215	<0.0215	<0.0215	<0.0215	0.0402	0.379	<0.0215	0.608	1.00	0.125
SB-4 (0-2)	06/21/22	ICON	—	771	121	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-04 (2-4)	06/21/22	HET	—	—	—	<2.76	<5.52	<3.68	<2.00	<1.00	3.65	<2.00	<2.00	6.92	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-4 (2-4)	06/21/22	ICON	—	1350	234	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-04 (4-8)	06/21/22	HET	—	—	—	<3.59	<7.18	<4.78	<2.00	<1.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-05 (2-4)	06/21/22	HET	—	—	—	<2.84	<5.68	<3.79	<2.00	<1.00	9.44	6.23	<2.00	23.3	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-05 (4-8)	06/21/22	HET	—	—	—	<2.75	<5.50	<3.67	<2.00	<1.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-06 (2-4)	06/21/22	HET	—	—	—	<2.78	<5.57	<3.71	<2.00	<1.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-06 (4-8)	06/21/22	HET	—	—	—	<6.61	<13.2	<6.81	<2.00	<1.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-07 (2-4)	06/21/22	HET	—	—	—	<3.07	<6.13	<4.09	<2.00	<1.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-07 (4-8)	06/21/22	HET	—	—	—	<3.42	<6.83	<4.56	<2.00	<1.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-08 (0-2)	06/21/22	HET	—	—	—	<2.78	<5.57	<3.71	<2.00	<1.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-08 (2-4)	06/21/22	HET	—	—	—	<3.01	<6.02	<4.02	<2.00	<1.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Western Pit																															
HA-2 (0-2)	08/29/19	ICON	—	13900	16600	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-2 (0-2)	08/29/19	HET	—	—	—	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	32.8	<25.0	104	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-2 (2-4)	08/29/19	ICON	—	1800	2330	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HA-2 (2-4)	08/29/19	HET	—	—	—	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-09 (0-2)	06/22/22	HET	—	—	—	<3.55	<7.11	<4.74	<2.00	<1.00	<2.00	<2.00	2.43	5.41	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-09 (2-4)	06/22/22	HET	—	—	—	<3.34	<6.68	4.77	28.1	23.4	169	127	85.8	580	25.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-9 (2-4)	06/22/22	ICON	—	1210	632	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-09 (4-8)	06/22/22	HET	—	—	—	<3.28	<6.55	<4.37	<2.00	<1.00	<2.00	5.17	3.58	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-09 (8-8)	06/22/22	HET	—	—	—	<2.85	<5.70	<3.80	<2.00	<1.00	2.39	2.63	<2.00	14.2	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-10 (0-2)	06/22/22	HET	—	—	—	<3.73	<7.46	<4.98	<2.00	<1.00	4.11	5.25	12.2	65.1	3.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-10 (0-2)	06/22/22	ICON	—	142	157	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-10 (2-4)	06/22/22	HET	—	—	—	3.86	25.2	7.56	<20.0	<10.0	41.4	54.7	38.8	375	<20.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-10 (2-4)	06/22/22	ICON	—	4800	4800	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-10 (4-8)	06/22/22	HET	—	—	—	<3.69	<7.37	<4.91	<2.00	<1.00	2.24	4.18	<2.00	7.24	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-10 (4-8)	06/22/22	ICON	—	149	149	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-10 (8-8)	06/22/22	HET	—	—	—	<3.94	<7.87	<5.25	<2.00	<1.00	<2.00	4.97	4.08	6.33	2.57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-11 (0-2)	06/22/22	HET	—	—	—	<3.30	<6.61	<4.41	<2.00	2.16	11.6	8.08	3.41	39.3	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-11 (0-2)	06/22/22	ICON	—	141	123	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-11 (2-4)	06/22/22	HET	—	—	—	23.8	54.1	14.7	10.2	15.9	120	81.0	20.3	403	10.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-11 (2-4)	06/22/22	ICON	—	7870	4560	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-11 (4-8)	07/28/22	HET	—	—	—	<2.00	<1.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<4.00</																	

Soil Analytical Summary - RECAP Analyses (Limited Admission Area 3)

August J. Levert, Jr., Family, LLC, et al. v. BP America Production Company
 18th Judicial District Court, Division "A", Docket No. 078-953
 Grand River Oil and Gas Field
 Northern Half of Fractional Section 15, Township 10 South, Range 11 East
 Iberville Parish, Louisiana
 LDNR OC Legacy Project No. 018-028
 HET Project No. 1009.A62

Table 5
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Sample ID / Depth (feet)	Sample Date	Sampler	TPH			VPH			EPH								PAH															
			TPH-GRO (C8-C10)	TPH-DRO (C10-C28)	TPH-ORO (>C28)	C8-C8 Allphatics TX1006/MA	C8-C10 Allphatics TX1006/MA	C8-C10 Aromatics TX1006/MA	C10-C12 Allphatics TX1006/MA	C10-C12 Aromatics TX1006/MA	C12-C18 Allphatics TX1006/MA	C12-C18 Aromatics TX1006/MA	C16-C21 Aromatics TX1006/MA	C16-C35 Allphatics TX1006/MA	C21-C35 Aromatics TX1006/MA	2-Methyl-naphthalene 8270D	Ace-naphthene 8270D	Ace-naphthylene 8270D	Anthracene 8270D	Benzo(a)-anthracene 8270D	Benzo(a)-pyrene 8270D	Benzo(b)fluoranthene 8270D	Benzo(k)fluoranthene 8270D	Chrysene 8270D	Dibenz(a,h)anthracene 8270D	Fluor-anthene 8270D	Fluorene 8270D	Indeno (1,2,3-cd) pyrene 8270D	Naphthalene 8270D	Phen-anthrene 8270D	Pyrene 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 Soil 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	
SB-13 (0-2)	06/22/22	HET	—	—	—	<3.02	<6.05	<4.03	<2.00	<1.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-13 (2-4)	06/22/22	HET	—	—	—	<2.80	<5.60	<3.73	<2.00	<1.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-13 (4-8)	06/22/22	HET	—	—	—	<3.23	<6.45	<4.30	<2.00	<1.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-13 (8-8)	06/22/22	HET	—	—	—	<4.04	<8.09	<5.39	<2.00	<1.00	<2.00	2.22	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-14 (0-2)	06/23/22	HET	—	—	—	<2.72	<5.44	<3.63	<2.00	<1.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-14 (2-4)	06/23/22	HET	—	—	—	<2.91	<5.81	<3.88	<2.00	<1.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-14 (4-8)	06/23/22	HET	—	—	—	<2.95	<5.99	<3.93	<2.00	<1.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-14 (8-8)	06/23/22	HET	—	—	—	<4.03	<8.06	<5.38	<2.00	<1.00	<2.00	2.44	<2.00	<4.00	2.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-15 (0-2)	06/23/22	HET	—	—	—	<2.75	<5.50	<3.67	<2.00	<1.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-15 (2-4)	06/23/22	HET	—	—	—	<2.88	<5.77	<3.85	<2.00	<1.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-15 (4-8)	06/23/22	HET	—	—	—	<2.96	<5.93	<3.95	<2.00	<1.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-15 (8-8)	06/23/22	HET	—	—	—	<3.70	<7.41	<4.94	<2.00	<1.00	<2.00	4.49	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Maximum	N/A	N/A	—	13900	16600	23.8	56.6	21.9	57.0	76.0	361	208	85.8	580	104	4.01	0.46	<0.0215	0.188	<0.0215	<0.0215	<0.0215	<0.0215	<0.0215	<0.0215	<0.0215	0.0402	0.379	<0.0215	0.608	1.00	0.125
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 Soil 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
 MA - Massachusetts Method
 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

Soil Analytical Summary - 29-B Analyses (Other Areas)

August J. Levert, Jr., Family, LLC, et al. v. BP America Production Company
 18th Judicial District Court, Division "A", Docket No. 078-953
 Grand River Oil and Gas Field
 Northern Half of Fractional Section 15, Township 10 South, Range 11 East
 Iberville Parish, Louisiana
 LDNR OC Legacy Project No. 018-028
 HET Project No. 1009.A62

Table 6
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Sample ID / Depth (feet)	Sample Date	Sampler	Salinity															Metals ⁶												Additional Parameters						
			Chloride	Chloride	SPLP Chloride	Bromide (Br)	Bromide (Sat Paste)	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	Chromium (Total/SPLP)	Lead (Total/SPLP)	Total Mercury	Total Selenium	Total Silver	Strontium (Total/SPLP)	Zinc (Total/SPLP)	Saturation %	pH (Saturated Paste)	% Moisture		
			29B	9056A	1312	9056A	29B	29B	29B	29B	29B	29B	29B	1312	29B	29B	9056	29B	6010B	1312	6010B	29B	1312	6010B	6010B / 1312	6010B / 1312	7471A	6010B	6010B	6010B / 1312	6010B / 1312	29B	29B	2540G		
			meq/L	mg/Kg	mg/L	mg/Kg	meq/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/L	mg/Kg / mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg / mg/L	mg/Kg / mg/L	%	s.u.	%		
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<8	<25	<14	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	20000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A			
LDNR Standards ²	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	1	10	N/A	N/A	20000	N/A	10	500	500	10	10	200	N/A	500	N/A	6-9	N/A			
LDEQ RECAP SS ³	N/A	N/A	N/A	N/A	5000 ⁵	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1200 ⁵	N/A	N/A	N/A	N/A	12	0.2 ⁵	550	N/A	40 ⁵	3.9	100 / 0.3 ⁵	100 / 0.3 ⁵	2.3	20	39	N/A	2300 / 22 ⁵	N/A	N/A	N/A			
LDEQ RECAP MO-1 SolInl ⁴	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	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			
HA-4 (0-2)	08/30/19	ICON	—	—	—	—	—	0.570	1.15	0.850	4.1	0.62	1.3	—	44.1	—	—	—	10.6	—	335	754	—	0.671	11.1	12.1	<0.108	<3.71	—	324	133	—	—	21.8		
HA-4 (0-2)	08/30/19	HET	0.39	<4.00	—	—	—	0.490	0.574	<0.430	4.11	<0.620	0.459	—	28.7	3.8	0.676	—	12.0	<0.10	217	244	—	<2.5	10.6 / <0.10	12.1 / <0.10	<0.077	<5.0	<5.0	325 / <0.10	144 / <0.10	82.9	7.86	27.5		
HA-4 (2-4)	08/30/19	ICON	—	—	—	—	—	3.670	11.3	12.9	5.96	2.61	26.8	—	48.6	—	—	—	6.02	—	164	408	—	0.399	9.16	9.51	<0.107	<3.90	—	62.7	45.4	—	—	30.6		
HA-4 (2-4)	08/30/19	HET	12.8	280	—	—	—	4.40	3.42	12.2	14.7	4.71	38.1	—	37.3	1.6	35.4	—	5.60	—	99.8	430	—	<2.3	11.8	10.4	<0.080	<4.5	<4.5	78.2	52.1	113	7.33	33.2		
HA-4 (4-6)	08/30/19	ICON	—	—	352*	—	—	6.23	12.9	15.5	10.2	5.59	43.7	—	33.3	—	—	—	7.34	—	151	285	—	0.392	8.50	8.93	<0.104	<3.75	—	37.7	39.3	—	—	28		
HA-4 (4-6)	08/30/19	HET	63.2	1180	—	—	—	7.59	—	—	18	7.54	65.2	—	—	1.2	13	—	<5.0	—	141	280	—	<2.5	12.6	9.10	<0.077	<5.0	<5.0	44.4	55.5	80.6	7.30	31.3		
HA-4 (6-8)	08/30/19	ICON	—	—	515*	—	—	6.54	7.54	8.55	17.9	10.1	32	—	51.3	—	—	—	4.25	—	159	431	—	0.520	12.6	11.5	<0.108	<3.83	—	35.7	51.7	—	—	34.5		
HA-4 (6-8)	08/30/19	HET	58.8	1300	—	—	—	6.25	—	—	18.9	9.14	35.4	—	—	1.4	2.39	—	5.80	—	123	195	—	<2.5	15.2	12.7	<0.074	<4.9	<4.9	35.6	56.2	116	7.46	40.3		
HA-6 (0-2)	09/25/19	ICON	—	—	—	—	—	0.490	0.580	1.12	1.94	1.29	1.43	—	74.1	—	—	—	4.45	—	155	365	—	<0.479	14.3	14.4	<0.108	<3.83	—	33.2	61.0	—	—	39.6		
HA-6 (0-2)	09/25/19	HET	1.98	29.7	—	—	—	0.580	0.752	1.22	2.21	1.24	1.6	—	51.7	1.6	1.76	—	<4.7	—	117	489	—	<2.4	15.2	15.1	<0.080	<4.7	<4.7	—	63.8	118	7.01	45.7		
HA-6 (2-4)	09/25/19	ICON	—	—	—	—	—	0.770	1.11	1.75	2.68	1.74	2.6	—	78.2	—	—	—	4.67	—	204	486	—	<0.498	15.8	12.6	<0.0998	<3.98	—	35.9	59.9	—	—	39.3		
HA-6 (2-4)	09/25/19	HET	4.43	73.8	—	—	—	0.890	1.21	2.01	2.77	1.64	2.98	—	54.3	0.8	2.97	—	<4.9	—	142	311	—	<2.5	15.2	12.1	<0.069	<4.9	<4.9	—	62.1	129	6.93	45.7		
HA-6 (4-6)	09/25/19	ICON	—	—	—	—	—	1.16	1.62	2.41	3.85	2.24	4.21	—	73.4	—	—	—	3.72	—	267	614	—	0.280	11.7	11.8	<0.103	<3.78	—	35.6	50.0	—	—	42		
HA-6 (4-6)	09/25/19	HET	5.5	124	—	—	—	1.03	—	—	3.5	2.01	3.2	—	—	1.2	2.72	—	<4.9	—	305	348	—	<2.5	14.4	12.1	<0.067	<4.9	<4.9	—	60.5	140	7.45	59.2		
LT-4 (8-10)	06/22/22	ICON	—	83.8	—	—	—	0.720	1.02	1.14	2.79	1.4	1.66	—	68.3	—	—	—	1.26	—	111	375	—	<0.496	8.04	6.99	<0.0998	<3.97	—	22.7	27.7	—	—	42.2		
LT-4 (12-14)	06/22/22	HET	1.64	27.8	—	—	—	0.502	—	—	2.94	1.12	1.23	—	—	1.8	1	—	2.90	—	161	<500	—	<0.200	9.09	7.45	0.0343	<1.00	<0.500	—	34.1	68.5	7.95	32.4		
LT-4 (12-14)	06/22/22	ICON	—	33.6	—	—	—	0.810	—	—	—	—	—	—	—	—	—	—	2.89	—	188	409	—	<0.498	7.96	6.70	<0.0946	<3.98	—	25.5	32.0	—	—	28.9		
LT-4 (16-18)	06/22/22	HET	1.46	22.8	—	—	—	0.503	—	—	2.53	1.03	1.62	—	—	2.5	0.574	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.1		
LT-4 (16-18)	06/22/22	ICON	—	34.4	—	—	—	0.670	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.8		
LT-4 (20-22)	06/22/22	HET	1.81	48.1	—	—	—	0.635	—	—	2.93	1.28	2.34	—	—	2.9	0.996	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	163	7.98	47.8
LT-4 (20-22)	06/22/22	ICON	—	49.7	21.6*	—	—	0.770	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	41.5		
LT-5 (0-2)	06/23/22	HET	3.66	93.4	—	—	—	0.760	1.55	2.46	2.46	1.28	3.36	—	63	1.8	1.51	—	4.36	—	139	<500	—	0.34	15.5	12.7	0.0327	<1.00	<0.500	—	58.4	152	7.75	30		
LT-5 (0-2)	06/23/22	ICON	—	146	—	—	—	0.960	2.24	1.96	2.82	1.71	2.96	—	71.6	—	—	—	3.14	—	119	411	—	<0.497	11.5	10.2	<0.104	<3.97	—	23.2	42.1	—	—	28.3		
LT-5 (4-6)	06/23/22	HET	3.72	84.9	—	—	—	0.729	—	—	2.41	1.28	2.93	—	—	2	0.919	—	4.31	—	120	<500	—	0.281	11.8	10.9	0.0345	<1.00	<0.500	—	44.2	155	7.91	38.4		
LT-5 (4-6)	06/23/22	ICON	—	153	—	—	—	1.02	1.72	1.57	3.43	1.94	2.57	—	81.2	—	—	—	3.55	—	125	341	—	<0.498	10.3	9.58	<0.0962	<3.99	—	26.2	40.7	—	—	37.4		
LT-5 (8-10)	06/23/22	ICON	—	88.7	—	—	—	0.710	1.26	1.19	2.28	1.34	1.61	—	51.3	—	—	—	2.93	—	301	691	—	<0.478	8.41	7.81	<0.0947	<3.83	—	29.8	34.0	—	—	32.7		
LT-5 (16-18)	06/23/22	HET	4.37	39.2	—	—	—	0.727	—	—	2.92	1.54	1.73	—	—	1.2	0.737	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	35.3	7.62	25.2	
LT-5 (16-18)	06/23/22	ICON	—	39.8	—	—	—	0.640	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.6		
LT-5 (22-24)	06/23/22	HET	3.23	67.4	—	—	—	0.781	—	—	2.94	1.58	2.61	—	—	3.3	0.756	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	136	8.06	36.9	
LT-5 (22-24)	06/23/22	ICON	—	77.7	28.0*	—	—	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31.7	
LT-6 (0-2)	06/23/22	HET	0.536	34.4	—	—	—	1.46	0.400	0.443	9.92	4.72	1.2	—	63	0.1	16.7	—	3.87	—	138															

Groundwater Analytical Summary - Limited Admission Area 1

August J. Levert, Jr., Family, LLC, et al. v. BP America Production Company
 18th Judicial District Court, Division "A", Docket No. 078-963
 Grand River Oil and Gas Field
 Northern Half of Fractional Section 15, Township 10 South, Range 11 East
 Iberville Parish, Louisiana
 LDNR OC Legacy Project No. 018-028
 HET Project No. 1009.A62

Table 7
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Well Number (Screen Interval)	Date	Sampler	Salinity					BTEX				Hydrocarbons			Metals														Alkalinity		Radium				
			Chloride	Bromide	Cl/Br Ratio	Conductivity	TDS	Sulfate	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-GRO (C6-C10)	TPH-DRO (C10-C28)	TPH-DRO (C28)	Arsenic	Barium	Cadmium	Calcium	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Potassium	Selenium	Silver	Sodium	Strontium	Zinc	Alkalinity, Bicarbonate	Alkalinity, Carbonate	Radium 226	Radium 228
			9056A	9056A	N/A	2510B	2540C	9056A	8260B	8260B	8260B	8260B	8015C	8015C	8015C	6020	6020	6020	6010B	6020	6010B	6020	6010B	6010B	7470A	6010B	6020	6020	6010B	6020	6010B	6020	2320B	2320B	EPA 903
LDEQ RECAP SS ¹	10/20/03	N/A	250 ²	N/A	N/A	N/A	500 ²	250 ²	0.005	1	0.7	10	0.15	0.15	0.15	0.01	2	0.005	N/A	0.1	0.3 ²	0.015	N/A	0.05 ²	0.002	N/A	0.05	0.018	N/A	N/A	1.1	N/A	N/A	5 Combined ³	
LT-1 (11-16)	09/25/19	HET	12400	32	388	25000	24900	204	<0.0050	<0.0050	<0.0050	<0.0050	—	—	—	<0.010	5.02	<0.0050	2080	<0.010	126	<0.010	745	10.5	<0.00020	6.13	<0.050	<0.010	3390	17.0	<0.25	739	<5.0	N/A ¹	N/A ¹
LT-1 (Filtered)	09/25/19	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.010	4.98	<0.0050	1500	<0.010	120	<0.010	765	10.0	<0.00020	6.03	<0.050	<0.010	2590	12.9	<0.25	—	—	—	—
LT-1 (11-16)	09/25/19	ICON	8990	—	—	—	18800	187	<0.00600	<0.0100	<0.00800	<0.0500	<0.180	<0.134	0.192	<0.00250	3.43	<0.00800	1660	<0.0100	102	<0.0100	675	7.78	<0.000200	15.1	—	—	2890	13.3	0.0168	802	<10.0	2.65	3.83
Maximum	N/A	N/A	12400	32	388	25000	24900	204	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.134	0.192	<0.010	5.02	<0.00500	2080	<0.010	126	<0.010	765	10.5	<0.000200	15.1	<0.050	<0.010	3390	17.0	0.0168	802	<10.0	6.28	
LDEQ RECAP SS ¹	10/20/03	N/A	250 ²	N/A	N/A	N/A	500 ²	250 ²	0.005	1	0.7	10	0.15	0.15	0.15	0.01	2	0.005	N/A	0.1	0.3 ²	0.015	N/A	0.05 ²	0.002	N/A	0.05	0.018	N/A	N/A	1.1	N/A	N/A	5 Combined ³	

1 - LDEQ RECAP Groundwater Screening Standards per Table 1 of LDEQ RECAP document dated October 20, 2003 listed for reference purposes only

2 - EPA Secondary Drinking Water Standard

3 - EPA Primary Drinking Water Standard

BTEX - Benzene, Toluene, Ethylbenzene, and Xylene

TDS - Total Dissolved Solids

pCi/L - picocuries per liter

Filtered - Dissolved metal containers filtered and preserved at time of sample collection

mg/L - milligrams per liter equivalent to parts per million (ppm)

umhos/cm - micro mhos per centimeter

— Not Analyzed

N/A - Not Applicable

N/A¹ - Not Applicable due to elemental interferences during laboratory analysis causing no chemical recovery

Groundwater Analytical Summary (Additional Parameters) - Limited Admission Area 1

August J. Levert, Jr., Family, LLC, et al. v. BP America Production Company
 18th Judicial District Court, Division "A", Docket No. 078-953
 Grand River Oil and Gas Field
 Northern Half of Fractional Section 15, Township 10 South, Range 11 East
 Iberville Parish, Louisiana
 LDNR OC Legacy Project No. 018-028
 HET Project No. 1009.A62

Table 8
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Well Number (Screen Interval)	Date	Sampler	Additional Parameters																										
			VPH			EPH									PAH														
			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	Acenaphthene	Ace- naphthylene	Anthracene	Benz(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	
			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	
LT-1 (11-16)	09/25/19	HET	<0.15	<0.15	<0.15	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Maximum	N/A	N/A	<0.15	<0.15	<0.15	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
LDEQ RECAP SS †	10/20/03	N/A	3.2	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	7.3	0.15	0.00062	0.037	0.1	0.043	0.0078	0.0002	0.0048	0.0025	0.0016	0.0025	0.15	0.024	0.0037	0.01	0.18	0.018

1 - LDEQ RECAP Groundwater Screening Standards per Table 1 of LDEQ RECAP document dated October 20, 2003 listed for reference purposes only

2 - EPA Secondary Drinking Water Standard

VPH - Volatile Petroleum Hydrocarbons

EPH - Extractable Petroleum Hydrocarbons

mg/L - milligrams per liter equivalent to parts per million (ppm)

— Not Analyzed

N/A - Not Applicable

Groundwater Analytical Summary (Limited Admission Area 2)

August J. Levert, Jr., Family, LLC, et al. v. BP America Production Company
 18th Judicial District Court, Division "A", Docket No. 078-953
 Grand River Oil and Gas Field
 Northern Half of Fractional Section 15, Township 10 South, Range 11 East
 Iberville Parish, Louisiana
 LDNR OC Legacy Project No. 018-028
 HET Project No. 1009.A62

Table 9
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Well Number (Screen Interval)	Date	Sampler	Salinity					BTEX				Hydrocarbons			Metals													Alkalinity		Radium					
			Chloride	Bromide	Cl/Br Ratio	Conductivity	TDS	Sulfate	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-DRO (C6-C10)	TPH-DRO (C10-C28)	TPH-DRO (>C28)	Arsenic	Barium	Cadmium	Calcium	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Potassium	Selenium	Silver	Sodium	Strontium	Zinc	Alkalinity, Bicarbonate	Alkalinity, Carbonate	Radium 226	Radium 228
			9056A	9058A	N/A	2510B	2540C	9058A	8280B	8280B	8280B	8260B	8015C	8015C	8015C	6020	6020	6020	6010B	6020	6010B	6020	6010B	6010B	7470A	6010B	6020	6020	6010B	6020	6020	6010B	6020	6020	6020
LDEQ RECAP SS ¹	10/20/03	N/A	250 ²	N/A	N/A	N/A	500 ²	250 ²	0.005	1	0.7	10	0.15	0.15	0.15	0.01	2	0.005	N/A	0.1	0.3 ²	0.015	N/A	0.05 ²	0.002	N/A	0.05	0.018	N/A	N/A	1.1	N/A	N/A	5 Combined ³	
LT-2 (11-16)	09/26/19	HET	3640	<0.60	—	9620	8800	1.50	<0.0050	<0.0050	<0.0050	<0.0050	—	—	—	0.0196	3.14	<0.0050	822	0.0102	75.0	<0.010	300	6.09	<0.00020	4.99	<0.050	<0.010	707	5.76	<0.050	530	<5.0	2.43	2.07
LT-2 (Filtered)	09/26/19	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0201	3.25	<0.0050	879	<0.010	74.9	<0.010	341	6.57	<0.00020	3.25	<0.050	<0.010	800	6.35	<0.050	—	—	—	—
LT-2 (11-16)	09/26/19	ICON	3150	—	—	—	7380	<5.00	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	0.629	0.280	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
LT-2 (Filtered)	09/26/19	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0193	3.20	<0.00500	892	<0.0100	82.0	<0.0100	326	6.34	<0.000200	7.20	0.0654	—	—	—	—	—	—	—	—
LT-2 (11-16) FD	09/26/19	ICON	3140	—	—	—	8350	<5.00	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.132	0.168	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
LT-2 FD (Filtered)	09/26/19	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0179	2.74	<0.00500	775	<0.0100	70.3	<0.0100	282	5.69	<0.000200	7.06	0.0608	—	—	—	—	—	—	—	—
Maximum	N/A	N/A	3640	<0.60	—	9620	8800	1.50	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	0.629	0.280	0.0201	3.25	<0.00500	892	0.0102	82.0	<0.0100	341	6.57	<0.000200	7.20	0.0654	<0.010	800	6.42	0.0108	—	—	—	—
LDEQ RECAP SS ¹	10/20/03	N/A	250 ²	N/A	N/A	N/A	500 ²	250 ²	0.005	1	0.7	10	0.15	0.15	0.15	0.01	2	0.005	N/A	0.1	0.3 ²	0.015	N/A	0.05 ²	0.002	N/A	0.05	0.018	N/A	N/A	1.1	N/A	N/A	5 Combined ³	

1 - LDEQ RECAP Groundwater Screening Standards per Table 1 of LDEQ RECAP document dated October 20, 2003 listed for reference purposes only
 2 - EPA Secondary Drinking Water Standard
 3 - EPA Primary Drinking Water Standard
 BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
 TDS - Total Dissolved Solids
 pCi/L - picocuries per liter
 Filtered - Dissolved metal containers filtered and preserved at time of sample collection
 mg/L - milligrams per liter equivalent to parts per million (ppm)
 umhos/cm - micro mhos per centimeter
 — Not Analyzed
 N/A - Not Applicable

Groundwater Analytical Summary (Additional Parameters) - Limited Admission Area 2

August J. Levert, Jr., Family, LLC, et al. v. BP America Production Company
 18th Judicial District Court, Division "A", Docket No. 078-953
 Grand River Oil and Gas Field
 Northern Half of Fractional Section 15, Township 10 South, Range 11 East
 Iberville Parish, Louisiana
 LDNR OC Legacy Project No. 018-028
 HET Project No. 1009.A62

Table 10
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Well Number (Screen Interval)	Date	Sampler	Additional Parameters																										
			VPH			EPH									PAH														
			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	Acenaphthene	Ace- naphthylene	Anthracene	Benz(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	
			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	
LT-2 (11-16')	09/26/19	HET	<0.15	<0.15	<0.15	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Maximum	N/A	N/A	<0.15	<0.15	<0.15	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
LDEQ RECAP SS ¹	10/20/03	N/A	3.2	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	7.3	0.15	0.00062	0.037	0.1	0.043	0.0078	0.0002	0.0048	0.0025	0.0016	0.0025	0.15	0.024	0.0037	0.01	0.18	0.018

1 - LDEQ RECAP Groundwater Screening Standards per Table 1 of LDEQ RECAP document dated October 20, 2003 listed for reference purposes only
 2 - EPA Secondary Drinking Water Standard
 VPH - Volatile Petroleum Hydrocarbons
 EPH - Extractable Petroleum Hydrocarbons
 mg/L - milligrams per liter equivalent to parts per million (ppm)
 — Not Analyzed
 N/A - Not Applicable

Groundwater Analytical Summary - Limited Admission Area 3

August J. Levert, Jr., Family, LLC, et al. v. BP America Production Company
 18th Judicial District Court, Division "A", Docket No. 078-963
 Grand River Oil and Gas Field
 Northern Half of Fractional Section 15, Township 10 South, Range 11 East
 Iberville Parish, Louisiana
 LDNR OC Legacy Project No. 018-028
 HET Project No. 1009.A62

Table 11
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Well Number (Screen Interval)	Date	Sampler	Salinity						BTEX				Hydrocarbons			Metals													Alkalinity		Radium				
			Chloride	Bromide	Cl/Br Ratio	Conductivity	TDS	Sulfate	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-GRO (C6-C10)	TPH-DRO (C10-C28)	TPH-ORO (C28)	Arsenic	Barium	Cadmium	Calcium	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Potassium	Selenium	Silver	Sodium	Strontium	Zinc	Alkalinity, Bicarbonate	Alkalinity, Carbonate	Radium 226	Radium 228
			9056A mg/L	9056A mg/L	N/A	2510B umhos/cm	2540C mg/L	9056A mg/L	8260B mg/L	8260B mg/L	8260B mg/L	8260B mg/L	8015C mg/L	8015C mg/L	8015C mg/L	6020 mg/L	6020 mg/L	6020 mg/L	6010B mg/L	6020 mg/L	6010B mg/L	6020 mg/L	6010B mg/L	6010B mg/L	7470A mg/L	6010B mg/L	6020 mg/L	6020 mg/L	6010B mg/L	6020 mg/L	6020 mg/L	2320B mg/L	2320B mg/L	EPA 903 pCi/L	EPA 904 pCi/L
LDEQ RECAP SS ¹	10/20/03	N/A	250 ²	N/A	N/A	N/A	500 ²	250 ²	0.005	1	0.7	10	0.15	0.15	0.15	0.01	2	0.005	N/A	0.1	0.3 ²	0.015	N/A	0.05 ²	0.002	N/A	0.05	0.018	N/A	N/A	1.1	N/A	N/A	5 Combined ³	
LT-3 (11-16)	09/27/19	HET	2600	3.10	839	5100	3720	5.90	<0.0050	<0.0050	<0.0050	<0.0050				<0.010	1.40	<0.0050	298	0.274	12.0	0.0195	98.0	2.21	<0.00020	2.05	<0.050	<0.010	580	2.10	<0.050	499	<5.0	0.769	1.51
LT-3 (Filtered)	09/27/19	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.010	1.38	<0.0050	307	<0.010	6.83	<0.010	110	2.30	<0.00020	1.17	<0.050	<0.010	641	2.28	<0.050	—	—	—	—
LT-3 (11-16)	09/27/19	ICON	1410	—	—	—	3280	4.57	<0.00500	<0.0100	<0.00500	<0.0600	<0.150	0.154	0.197	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
LT-3 (Filtered)	09/27/19	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.00280	1.22	<0.00500	282	<0.0100	5.64	<0.0100	98.4	2.09	<0.000200	<5.00	0.0796	—	602	2.04	<0.0100	—	—	—	—
Maximum	N/A	N/A	2600	3.10	839	5100	3720	5.90	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	0.164	0.197	<0.010	1.40	<0.00500	307	0.274	12.0	0.0195	110	2.30	<0.000200	2.05	0.0798	<0.010	641	2.28	<0.050	—	—	—	—
LDEQ RECAP SS ¹	10/20/03	N/A	250 ²	N/A	N/A	N/A	500 ²	250 ²	0.005	1	0.7	10	0.15	0.15	0.15	0.01	2	0.005	N/A	0.1	0.3 ²	0.015	N/A	0.05 ²	0.002	N/A	0.05	0.018	N/A	N/A	1.1	N/A	N/A	5 Combined ³	

1 - LDEQ RECAP Groundwater Screening Standards per Table 1 of LDEQ RECAP document dated October 20, 2003 listed for reference purposes only
 2 - EPA Secondary Drinking Water Standard
 3 - EPA Primary Drinking Water Standard
 BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
 TDS - Total Dissolved Solids
 pCi/L - picocuries per liter
 Filtered - Dissolved metal containers filtered and preserved at time of sample collection
 mg/L - milligrams per liter equivalent to parts per million (ppm)
 umhos/cm - micro mhos per centimeter
 — Not Analyzed
 N/A - Not Applicable

Groundwater Analytical Summary (Other Areas)

August J. Levert, Jr., Family, LLC, et al. v. BP America Production Company
 18th Judicial District Court, Division "A", Docket No. 078-953
 Grand River Oil and Gas Field
 Northern Half of Fractional Section 15, Township 10 South, Range 11 East
 Iberville Parish, Louisiana
 LDNR OC Legacy Project No. 018-028
 HET Project No. 1009.A62

Table 13
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Well Number (Screen Interval)	Date	Sampler	Salinity					BTEX				Hydrocarbons			Metals													Alkalinity		Radium						
			Chloride	Bromide	Cl/Br Ratio	Conductivity	TDS	Sulfate	Benzene	Toluene	Ethyl- benzene	Total Xylene	TPH-DRO (C6-C10)	TPH-DRO (C10-C28)	TPH-DRO (C28)	Arsenic	Barium	Cadmium	Calcium	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Potassium	Selenium	Silver	Sodium	Strontium	Zinc	Alkalinity, Bicarbonate	Alkalinity, Carbonate	Radium 226	Radium 228	
			9056A	9056A	N/A	2510B	2540C	9056A	8260B	8260B	8260B	8260B	9015C	8015C	8015C	8020	8020	8020	8010B	8020	8010B	8020	8010B	8010B	7470A	8010B	8020	8020	8010B	8020	6020	6020	6010B	6020	6020	mg/L
LDEQ RECAP SS ¹	10/20/03	N/A	250 ²	N/A	N/A	N/A	500 ²	250 ²	0.005	1	0.7	10	0.15	0.15	0.15	0.01	2	0.005	N/A	0.1	0.3 ²	0.015	N/A	0.05 ²	0.002	N/A	0.05	0.018	N/A	N/A	1.1	N/A	N/A	5 Combined ³		
LT-4 (13-18)	06/22/22	HET	102	0.553	184	1210	768	<2.50	<0.001	<0.002	<0.001	<0.001	—	—	—	0.0151	0.697	<0.0010	148	0.001	32.9	0.0017	54.6	1.53	<0.00020	0.929	<0.001	<0.0010	54	0.967	<0.010	560	<10	0.528	1.46	
LT-4 (Filtered)	06/22/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0148	0.669	<0.0010	140	<0.001	30.2	<0.0010	53.6	1.43	<0.00020	0.833	<0.001	<0.0010	49.5	0.934	<0.010	—	—	—	—	
LT-4 (13-18)	06/22/22	ICON	98.8	—	—	—	875	<0.250	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.127	<0.117	0.0164	0.680	<0.00500	150	<0.0100	33.2	<0.0100	51.2	1.48	<0.000200	<5.00	—	—	52.4	0.993	0.0116	485	<20.0	0.0498	0.583	
LT-5 (13-23)	06/23/22	HET	208	0.687	300	1440	882	<2.50	<0.001	<0.002	<0.001	<0.001	—	—	—	0.0236	0.599	<0.0010	149	0.001	25.3	<0.0010	58.6	1.90	<0.00020	2.94	<0.001	<0.0010	60.5	1.12	<0.010	510	<10	0.852	1.16	
LT-5 (Filtered)	06/23/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0231	0.612	<0.0010	157	<0.001	23.8	<0.0010	57.8	1.90	<0.00020	2.83	<0.001	<0.0010	65.5	1.14	<0.010	—	—	—	—	
LT-5 (13-23)	06/23/22	ICON	196	—	—	—	925	<0.250	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	0.302	0.311	0.0280	0.627	<0.00500	167	<0.0100	28.4	<0.0100	60.7	1.96	<0.000200	<5.00	—	—	72.1	1.18	0.0172	485	<20.0	0.310	0.662	
LT-8 (14-24)	06/28/22	HET	55.5	1.30	43	1560	951	<5.00	<0.001	0.003	<0.001	<0.001	—	—	—	0.240	0.722	<0.0010	198	0.001	38.5	<0.0010	61.4	0.761	<0.00020	8.48	<0.001	<0.0010	43.1	1.33	<0.010	860	<10	0.522	1.20	
LT-8 (Filtered)	06/28/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	0.231	0.717	<0.0010	203	<0.001	34.2	<0.0010	62.8	0.733	<0.00020	8.24	0.001	<0.0010	40.6	1.3	<0.010	—	—	—	—	
LT-8 (14-24)	06/28/22	ICON	58	—	—	—	920	<0.250	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.131	<0.121	0.301	0.729	<0.00500	220	<0.0100	36.1	<0.0100	63.0	0.761	<0.000200	10.1	—	—	46	1.41	<0.010	808	<20.0	0.825	0.591	
LT-9 (8-18)	06/28/22	HET	88.4	0.912	97	1590	960	<2.50	<0.001	<0.002	<0.001	<0.001	—	—	—	0.249	0.732	<0.0010	202	0.001	37.4	<0.0010	62.1	0.822	<0.00020	8.57	<0.001	<0.0010	44.6	1.32	<0.010	810	<10	0.833	0.892	
LT-9 (Filtered)	06/28/22	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	0.258	0.733	<0.0010	217	<0.001	40.2	<0.0010	61.9	0.811	<0.00020	8.57	<0.001	<0.0010	44.8	1.41	<0.010	—	—	—	—	
LT-9 (8-18)	06/28/22	ICON	88.7	—	—	—	965	<0.250	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.131	<0.121	0.281	0.696	<0.00500	212	<0.0100	36.7	<0.0100	58.2	0.788	<0.000200	9.63	—	—	44.9	1.31	0.0117	780	<20.0	0.810	0.458	
Maximum	N/A	N/A	208	1.30	300	1590	965	<5.00	<0.00500	0.003	<0.00500	<0.0500	<0.150	0.302	0.311	0.301	0.733	<0.00500	220	0.001	40.2	0.0017	63.0	1.96	<0.000200	10.1	0.001	<0.010	72.1	1.41	0.0172	860	<20.0	2.01		
LDEQ RECAP SS ¹	10/20/03	N/A	250 ²	N/A	N/A	N/A	500 ²	250 ²	0.005	1	0.7	10	0.15	0.15	0.15	0.01	2	0.005	N/A	0.1	0.3 ²	0.015	N/A	0.05 ²	0.002	N/A	0.05	0.018	N/A	N/A	1.1	N/A	N/A	5 Combined ³		

1 - LDEQ RECAP Groundwater Screening Standards per Table 1 of LDEQ RECAP document dated October 20, 2003 listed for reference purposes only
 2 - EPA Secondary Drinking Water Standard
 3 - EPA Primary Drinking Water Standard
 BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
 TDS - Total Dissolved Solids
 pCi/L - picocuries per liter
 Filtered - Dissolved metal containers filtered and preserved at time of sample collection
 mg/L - milligrams per liter equivalent to parts per million (ppm)
 umhos/cm - micro mhos per centimeter
 — Not Analyzed
 N/A - Not Applicable

Groundwater Analytical Summary (Additional Parameters) - Other Areas

August J. Levert, Jr., Family, LLC, et al. v. BP America Production Company
 18th Judicial District Court, Division "A", Docket No. 078-953
 Grand River Oil and Gas Field
 Northern Half of Fractional Section 16, Township 10 South, Range 11 East
 Iberville Parish, Louisiana
 LDNR OC Legacy Project No. 018-028
 HET Project No. 1009.A62

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Well Number (Screen Interval)	Date	Sampler	Additional Parameters																									
			VPH			EPH									PAH													
			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	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)- anthracene	Benzo(a)- pyrene	Benzo(b)- fluoranthene	Benzo(k)- fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3- cd) pyrene	Naphthalene	Phenanthrene	Pyrene
			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
LT-4 (13-18)	06/22/22	HET	<0.015	<0.030	<0.020	<0.130	<0.130	<0.130	<0.130	<0.130	<0.217	<0.152	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
LT-5 (13-23)	06/23/22	HET	<0.015	<0.030	<0.020	<0.136	<0.136	<0.136	<0.136	<0.136	0.324	<0.159	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
LT-8 (14-24)	06/28/22	HET	<0.015	<0.030	<0.020	<0.120	<0.120	<0.120	<0.120	<0.120	<0.200	<0.140	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
LT-9 (8-18)	06/28/22	HET	<0.015	<0.030	<0.020	<0.120	<0.120	<0.120	<0.120	<0.120	<0.200	<0.140	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Maximum	N/A	N/A	<0.015	<0.030	<0.020	<0.136	<0.136	<0.136	<0.136	<0.136	0.324	<0.159	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
LDEQ RECAP SS ¹	10/20/03	N/A	3.2	0.15	0.15	0.15	0.15	0.15	0.15	0.15	7.3	0.15	0.00062	0.037	0.1	0.043	0.0078	0.0002	0.0048	0.0025	0.0016	0.0025	0.15	0.024	0.0037	0.01	0.18	0.018

1 - LDEQ RECAP Groundwater Screening Standards per Table 1 of LDEQ RECAP document dated October 20, 2003 listed for reference purposes only

2 - EPA Secondary Drinking Water Standard

VPH - Volatile Petroleum Hydrocarbons

EPH - Extractable Petroleum Hydrocarbons

mg/L - milligrams per liter equivalent to parts per million (ppm)

— Not Analyzed

N/A - Not Applicable

X-Ray Diffraction Bulk Mineralogy

August J. Levert, Jr., Family, LLC, et al. v. BP America Production Company
18th Judicial District Court, Division "A", Docket No. 078-953
Grand River Oil and Gas Field
Northern Half of Fractional Section 15, Township 10 South, Range 11 East
Iberville Parish, Louisiana
LDNR OC Legacy Project No. 018-028
HET Project No. 1009.A62

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Mineralogy Determined by X-Ray Diffraction

Sample Name	Sample Date	Whole Rock Mineralogy (Wt %)												Clay Mineralogy (Wt %)				
		Quartz	K-Feldspars	Plagioclase	Calcite	Dolomite	Pyrite	Barium Sulfide	Barite	Witherite	Barium Chloride	Baria	Barium Peroxide	Total Clay	Illite	Smectite	Kaolinite	Chlorite
HA-2 (0-2')	8/29/2019	24.2	1.5	2.5	—	—	—	—	6.9	—	—	—	—	64.9	18.2	32.8	14.0	—
<i>Semi Quantitative X-Ray Diffraction (XRD)</i>																		
SB-03 (0-2')	6/21/2022	19.5	0.5	0.6	3.0	ND	ND	ND	64.1	ND	ND	ND	ND	12.3	—	—	—	—
SB-04 (0-2')	6/21/2022	13.3	0.3	1.2	3.6	ND	ND	ND	73.4	ND	ND	ND	ND	8.2	—	—	—	—
SB-11 (2-4')	6/22/2022	17.8	1.4	1.00	2.6	ND	ND	ND	44.9	ND	ND	ND	ND	32.3	—	—	—	—
SB-12 (2-4')	6/22/2022	18.3	0.3	1.4	3.0	ND	ND	ND	66.0	ND	ND	ND	ND	11.10	—	—	—	—

ND - None Detected
 — Not Analyzed