

APPENDIX C
TABLES

Soil Analytical Summary - 29-B Analyses (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 1
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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	Total Chromium	Total Lead	Total Mercury	Total Selenium	Total Silver	Total Strontium	Total Zinc	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	6010B	7471A	6010B	6010B	6010B	6010B	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/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	N/A	<8	<25	<14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	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	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 Soili 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	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-5 (0-2')	08/30/19	ICON	—	—	—	—	—	2.94	4.74	5.94	7.81	4.47	14.7	—	59.3	—	—	—	4.13	—	133	337	—	0.339	12.6	11.7	<0.106	<3.71	—	38.6	52.8	—	—	35.8	
HA-5 (0-2')	08/30/19	HET	24	517	—	—	—	3.02	2.86	6.07	8.3	4.24	15.2	—	50.4	1.8	2.79	—	7.30	—	150	354	—	<2.5	20.9	15.8	<0.074	<5.0	<5.0	48.1	74.3	127	7.62	38.6	
HA-5 (2-4')	08/30/19	ICON	—	—	—	—	—	2.83	5.35	6.02	7.28	4.06	14.3	—	61.6	—	—	—	4.06	—	175	425	—	0.380	15.1	11.7	<0.104	<3.93	—	41.4	61.6	—	—	33.3	
HA-5 (2-4')	08/30/19	HET	26	587	—	—	—	3.08	3.55	6.30	8.67	4.56	16.2	—	54.8	1.2	3.34	—	<4.6	—	71.3	189	—	<2.3	16.5	12.7	<0.074	<4.6	<4.6	36.0	65.8	114	7.42	38.5	
HA-5 (4-6')	08/30/19	ICON	—	—	334*	—	—	3.52	6.05	5.85	9.8	5.37	16.1	—	56.6	—	—	—	2.57	—	256	892	—	0.334	12.9	12.2	<0.101	<3.84	—	41.5	31.2	—	—	35.6	
HA-5 (4-6') - Accutest	08/30/19	HET	40.4	849	—	—	—	4.41	—	—	13.8	7.53	24.7	—	—	1.2	3.17	—	<5.0	—	115	611	—	<2.5	16.0	11.1	<0.074	<5.0	<5.0	39.4	52.0	—	—	47.7	
HA-5 (4-6') - Waypoint	08/30/19	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.58	—	151	425	—	0.244	12.2	11.5	0.0396	<1.00	<0.500	—	47.8	122	7.53	38	
HA-5 (6-7')	08/30/19	ICON	—	—	699*	—	—	6.12	5.33	6.37	20	11.2	25.2	—	66	—	—	—	4.53	—	147	402	—	<0.472	10.0	7.77	<0.107	<3.77	—	37.6	36.6	—	—	44.9	
HA-5 (6-7') - Accutest	08/30/19	HET	67.8	1470	—	—	—	7.22	—	—	13.1	14.7	30.3	—	—	0.8	3.68	—	<4.9	—	126	370	—	<2.5	11.6	7.9	<0.080	<4.9	<4.9	34.1	37.3	—	—	52.2	
HA-5 (6-7') - Waypoint	08/30/19	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.16	—	122	344	—	<0.200	11.4	8.39	0.0315	<1.00	<0.500	—	36.0	125	7.22	48	
LT-1 (0-4')	09/25/19	ICON	—	—	—	—	—	2.08	5.29	7.87	3.46	1.99	13	—	70.5	—	—	—	6.96	—	165	394	—	0.420	14.5	12.8	<0.103	<3.92	—	62.8	58.9	—	—	33.1	
LT-1 (0-4')	09/25/19	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	<5.0	—	150	340	—	<2.5	16.9	12.8	<0.069	<5.0	<5.0	—	66.5	—	—	38.2	
LT-1 (6-8')	09/25/19	ICON	—	—	632*	—	—	6.58	7.82	12.0	13.3	7.02	38.2	—	84.5	—	—	—	3.13	—	219	408	—	<0.480	13.4	10.6	<0.109	<3.84	—	50.8	47.0	—	—	38.1	
LT-1 (12-14')	09/25/19	ICON	—	—	—	—	—	17.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.5		
LT-1 (12-14')	09/25/19	HET	197	1830	92.9	—	—	19.0	—	—	57.5	27.4	97.6	56.7	—	1.6	4.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	33.5	7.17	21.3
Maximum	N/A	N/A	197	1830	92.9	—	—	19.0	7.82	12.0	57.5	27.4	97.6	56.7	84.5	1.8	4.43	—	7.30	—	256	892	—	0.420	20.9	15.8	0.0396	<5.0	<5.0	62.8	74.3	127	7.62	52.2	
LDNR Standards ¹	N/A	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	N/A	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	N/A	N/A	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	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 Soili 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	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_{SNi} and Soil_{SSGW}) per Table 1 of RECAP for comparison purposes only
 4 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{NI only}) 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
 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 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	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	TX1006/MA	TX1006/MA	TX1006/MA	TX1006/MA	TX1006/MA	TX1006/MA	TX1006/MA	TX1006/MA	TX1006/MA	TX1006/MA	TX1006/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	
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 (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/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	N/A	1200 ⁵	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 Soilni 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	38.8
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 (4-6')	06/21/22	HET	5.82	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 (4-6')	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 (4-6')	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 (4-6')	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 (4-6')	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

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	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/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 Soilni 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')	06/23/22	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	6640	—	—	—	—	—	—	—	—	—	—	—	36.7	
SB-14 (4-6')	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.29	—	196	1470	—	—	—	—	—	—	—	—	—	—	—	34.1	
SB-15 (4-6')	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	—	—	—	—	—	—	—	—	—	—	—	41.6	
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 (4-6')	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	N/A	<8	<25	<14	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	N/A	1200 ⁵	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 Soilni 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_{SNi} and Soil_{SSGW}) per Table 1 of RECAP for comparison purposes only
 4 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{ni only}) 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 mohs 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 (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	TX1006/MA	TX1006/MA	TX1006/MA	TX1006/MA	TX1006/MA	TX1006/MA	TX1006/MA	TX1006/MA	TX1006/MA	TX1006/MA	TX1006/MA	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
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
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 (4-6')	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 (6-8')	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 (4-6')	06/23/22	HET	—	—	—	<2.95	<5.89	<3.93	<2.00	<1.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-14 (6-8')	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 (4-6')	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 (6-8')	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	0.186	<0.0215	<0.0215	<0.0215	<0.0215	<0.0215	<0.0215	0.0402	0.379	<0.0215	0.608	1.00	0.125
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 (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	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 / 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 Soilni 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
LT-9 (0-2')	06/28/22	ICON	—	10.2	—	—	—	0.390	1.20	0.540	1.93	0.84	0.63	—	24.5	—	—	—	3.76	—	102	196	—	<0.494	7.78	5.93	<0.0935	<3.95	—	19.6	30.8	—	—	25.9
LT-9 (4-6')	06/28/22	HET	0.312	4.75	—	—	—	0.496	—	—	2.45	1.06	0.94	—	—	2.5	1.19	—	3.96	—	121	<500	—	0.246	10.1	8.06	0.0496	<1.00	<0.500	—	40.3	70.6	7.84	27.1
LT-9 (4-6')	06/28/22	ICON	—	8.15	—	—	—	0.410	1.41	0.620	1.87	0.79	0.72	—	25.5	—	—	—	2.86	—	115	245	—	<0.489	8.44	6.93	<0.105	<3.91	—	23.9	33.8	—	—	26.6
LT-9 (8-10')	06/28/22	HET	1.78	19.1	—	—	—	0.574	—	—	2.19	0.972	1.1	—	—	2.2	0.691	—	3.89	—	94.4	<500	—	<0.200	8.10	6.25	0.0313	<1.00	<0.500	—	31.8	47.1	7.81	27.5
LT-9 (8-10')	06/28/22	ICON	—	25.60	—	—	—	0.490	1.25	0.700	1.78	0.77	0.79	—	24.3	—	—	—	4.19	—	111	180	—	<0.497	7.76	6.72	<0.0949	<3.98	—	26.2	32.9	—	—	25.4
LT-9 (12-14')	06/28/22	HET	1.72	23.8	—	—	—	0.525	—	—	2.04	0.839	0.923	—	—	2.0	0.687	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52.7	7.67	25.8
LT-9 (12-14')	06/28/22	ICON	—	31.80	—	—	—	0.480	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	26.4
LT-9 (20-22')	06/28/22	HET	1.15	20.9	—	—	—	0.659	—	—	2.56	1.26	1.16	—	—	3.4	0.970	—	—	—	—	—	—	—	—	—	—	—	—	—	—	90.9	7.89	35.8
LT-9 (20-22')	06/28/22	ICON	—	18.90	—	—	—	0.430	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.3
Maximum	N/A	N/A	63.2	1300	515*	—	—	7.59	12.9	15.5	18.9	12.1	65.2	—	81.2	4.6	35.4	—	12	<0.10	335	2910	—	0.671	15.8 / <0.10	15.1 / <0.10	0.0496	<5.0	<5.0	325 / <0.10	144 / <0.10	163	8.18	59.2
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 / 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 Soilni 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 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_{SNi} and Soil_{SSGW}) per Table 1 of RECAP for comparison purposes only
 4 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{ni, only}) 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

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. 078-953
 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 7
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Well Number (Screen Interval)	Date	Sampler	Salinity						BTEX				Hydrocarbons			Metals														Alkalinity		Radium			
			Chloride 9056A	Bromide 9056A	Cl/Br Ratio N/A	Conductivity 2510B	TDS 2540C	Sulfate 9056A	Benzene 8260B	Toluene 8260B	Ethyl- benzene 8260B	Total Xylenes 8260B	TPH-GRO (C6-C10) 8015C	TPH-DRO (C10-C28) 8015C	TPH-ORO (>C28) 8015C	Arsenic 6020	Barium 6020	Cadmium 6020	Calcium 6010B	Chromium 6020	Iron 6010B	Lead 6020	Magnesium 6010B	Manganese 6010B	Mercury 7470A	Potassium 6010B	Selenium 6020	Silver 6020	Sodium 6010B	Strontium 6020	Zinc 6020	Alkalinity, Bicarbonate 2320B	Alkalinity, Carbonate 2320B	Radium 226 EPA 903	Radium 228 EPA 904
			mg/L	mg/L	N/A	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	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-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	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	<0.134	0.192	<0.00250	3.43	<0.00500	1660	<0.0100	102	<0.0100	575	7.79	<0.000200	15.1	—	—	2890	13.3	0.0168	802	<10.0	2.65	3.63
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 mohs per centimeter

— Not Analyzed

N/A - Not Applicable

N/A ¹ - 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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Additional Parameters																												
Well Number (Screen Interval)	Date	Sampler	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
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
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

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
 Page 1 of 1

Well Number (Screen Interval)	Date	Sampler	Salinity						BTEX				Hydrocarbons			Metals														Alkalinity		Radium			
			Chloride 9056A	Bromide 9056A	Cl/Br Ratio N/A	Conductivity 2510B	TDS 2540C	Sulfate 9056A	Benzene 8260B	Toluene 8260B	Ethyl- benzene 8260B	Total Xylenes 8260B	TPH-GRO (C6-C10) 8015C	TPH-DRO (C10-C28) 8015C	TPH-ORO (>C28) 8015C	Arsenic 6020	Barium 6020	Cadmium 6020	Calcium 6010B	Chromium 6020	Iron 6010B	Lead 6020	Magnesium 6010B	Manganese 6010B	Mercury 7470A	Potassium 6010B	Selenium 6020	Silver 6020	Sodium 6010B	Strontium 6020	Zinc 6020	Alkalinity, Bicarbonate 2320B	Alkalinity, Carbonate 2320B	Radium 226 EPA 903	Radium 228 EPA 904
			mg/L	mg/L	N/A	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	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-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	4.59	<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	0.529	0.280	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	610	<10.0	3.20	1.57
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	—	781	6.42	<0.0100	—	—	—	—
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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	575	<10.0	3.26	1.58
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	0.0508	—	717	5.57	0.0108	—	—	—	—
Maximum	N/A	N/A	3640	<0.60	—	9620	8800	1.50	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	0.529	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	610	<10.0	—	4.84
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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Additional Parameters																												
Well Number (Screen Interval)	Date	Sampler	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
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
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

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. 078-953
 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 11
 Page 1 of 1

Well Number (Screen Interval)	Date	Sampler	Salinity						BTEX				Hydrocarbons			Metals														Alkalinity		Radium			
			Chloride 9056A	Bromide 9056A	Cl/Br Ratio N/A	Conductivity 2510B	TDS 2540C	Sulfate 9056A	Benzene 8260B	Toluene 8260B	Ethyl- benzene 8260B	Total Xylenes 8260B	TPH-GRO (C6-C10) 8015C	TPH-DRO (C10-C28) 8015C	TPH-ORO (>C28) 8015C	Arsenic 6020	Barium 6020	Cadmium 6020	Calcium 6010B	Chromium 6020	Iron 6010B	Lead 6020	Magnesium 6010B	Manganese 6010B	Mercury 7470A	Potassium 6010B	Selenium 6020	Silver 6020	Sodium 6010B	Strontium 6020	Zinc 6020	Alkalinity, Bicarbonate 2320B	Alkalinity, Carbonate 2320B	Radium 226 EPA 903	Radium 228 EPA 904
			mg/L	mg/L	N/A	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	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-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	6.63	<0.010	110	2.30	<0.00020	1.17	<0.050	<0.010	641	2.26	<0.050	—	—	—	—
LT-3 (11-16')	09/27/19	ICON	1410	—	—	—	3260	4.57	<0.00500	<0.0100	<0.00500	<0.0500	<0.150	0.154	0.197	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
LT-3 (Filtered)	09/27/19	ICON	—	—	—	—	—	—	—	—	—	—	—	—	—	<0.00250	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	0.154	0.197	<0.010	1.40	<0.00500	307	0.274	12.0	0.0195	110	2.30	<0.000200	2.05	0.0796	<0.010	641	2.26	<0.050	520	<10.0	—	2.28
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	

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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 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 12
 Page 1 of 1

Additional Parameters																												
Well Number (Screen Interval)	Date	Sampler	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-3 (11-16')	09/27/19	HET	<0.15	<0.15	<0.15	<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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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

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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 (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
 Page 1 of 1

Well Number (Screen Interval)	Date	Sampler	Salinity						BTEX				Hydrocarbons			Metals														Alkalinity		Radium			
			Chloride 9056A	Bromide 9056A	Cl/Br Ratio N/A	Conductivity 2510B	TDS 2540C	Sulfate 9056A	Benzene 8260B	Toluene 8260B	Ethyl- benzene 8260B	Total Xylenes 8260B	TPH-GRO (C6-C10) 8015C	TPH-DRO (C10-C28) 8015C	TPH-ORO (>C28) 8015C	Arsenic 6020	Barium 6020	Cadmium 6020	Calcium 6010B	Chromium 6020	Iron 6010B	Lead 6020	Magnesium 6010B	Manganese 6010B	Mercury 7470A	Potassium 6010B	Selenium 6020	Silver 6020	Sodium 6010B	Strontium 6020	Zinc 6020	Alkalinity, Bicarbonate 2320B	Alkalinity, Carbonate 2320B	Radium 226 EPA 903	Radium 228 EPA 904
			mg/L	mg/L	N/A	umhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	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	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0146	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	1.46	<0.000200	<5.00	—	—	52.4	0.993	0.0116	485	<20.0	0.0498	0.563
LT-5 (13-23')	06/23/22	HET	206	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	465	<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	36.5	<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	206	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	

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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 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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Additional Parameters																												
Well Number (Screen Interval)	Date	Sampler	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
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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