



JOHN BEL EDWARDS
GOVERNOR

State of Louisiana
DEPARTMENT OF NATURAL RESOURCES
OFFICE OF CONSERVATION

THOMAS F. HARRIS
SECRETARY

MONIQUE M. EDWARDS
COMMISSIONER OF CONSERVATION

June 2, 2023

Sinclair Law Firm, LLC
P.O. Box 1026
Shreveport, LA 71163
Attn: Scott C. Sinclair

RE: JACK R. GAMBLE JR., LLC V. INDIGO MINERALS, LLC
DOCKET NO. 2023-3171-DNR-OOC
DNR OC LEGACY NO. 042-003-001

Dear Mr. Sinclair:

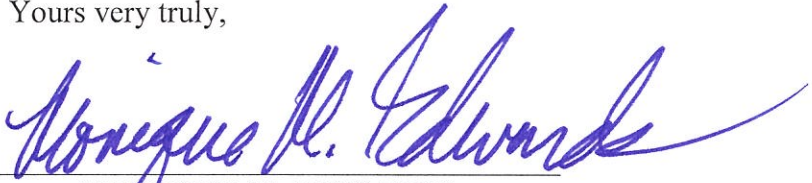
This Office has completed our review of Indigo Minerals, LLC's proposed plan, dated March 15, 2023, related to DNR OC Legacy No. 042-003-001. It has been determined the referenced plan does not meet the requirements outlined in Ch. 6 of Statewide Order 29B in the following particulars:

1. Office of Conservation records indicate water well 031-308 is located within one mile of the subject property boundary and is listed as an active domestic supply well, screened in the interval in question. RECAP Section 2.10 Groundwater Classification 3 notes: *"If a domestic or agricultural water supply well is located within one mile of the AOI property boundaries and is screened in the same stratum as the aquifer of concern or has a direct hydraulic connection, then the aquifer shall be classified as a Groundwater Classification 2 aquifer."* The referenced plan to address groundwater is not in compliance with RECAP Section 2.10 and LAC 43:XIX.611.F.
2. Total Barium at Limited Admission Area SN 239274 is not fully delineated, in particular sample locations SB-1 and SB-2/2R – LAC 43:XIX.611.B.
3. Total Barium at Limited Admission Area SN 239592 is not fully delineated, in particular sample location SB-2/2R – LAC 43:XIX.611.B.
4. Total Barium at Limited Admission Area SN 240035 is not fully delineated, in particular sample locations SB-1/1R, SB-3, and MW-1 – LAC 43:XIX.611.B.
5. Total Barium at Limited Admission Area SN 2400037 is not fully delineated, in particular sample locations SB-1/1R and SB-2/2R – LAC 43:XIX.611.B.

6. As part of the Quality Assurance/Quality Control, Matrix Spike/Matrix Spike Duplicates were not provided – RECAP Section 2.4 and LAC 43:XIX.611.F.
7. Multiple rig supply wells were not included on the figures provided in the referenced plan – LAC 43:XIX.609.A.3.
8. Sample data for locations labeled as EB-1 at Limited Admission Area SN 239274, Limited Admission Area SN 239592, and Limited Admission Area SN 240037 were not provided in the referenced plan – LAC 43:XIX.611.D.1 and E.
9. Multiple soil and groundwater sample results presented in summary tables are not in the same units as the appropriate regulatory standard – RECAP Section 2.5 and LAC 43:XIX.611.F.
10. Future intended use of the property has not been provided – RECAP Section 3.4 and LAC 43:XIX.611.F.

Based on these findings, the Office of Conservation is requesting Indigo Minerals, LLC move for a continuance in this matter by Wednesday, June 7, 2023, so a Statewide Order 29B compliant plan can be submitted to this Office for review.

Yours very truly,


MONIQUE M. EDWARDS
COMMISSIONER OF CONSERVATION

MME:gdb

Cc: Honorable Nicholas E. Gasper (via email)
Honorable Leighann N. Guilbeau (via email)
All counsel of record (via email)

SINCLAIR LAW FIRM, L.L.C.

POST OFFICE BOX 1026
SHREVEPORT, LOUISIANA 71163-1026
(318) 562-3700

401 Edwards Street, Suite 1905
Shreveport, Louisiana 71101

SCOTT C. SINCLAIR
ssinclair@Sinclair-Law.com
(318) 408-1516

June 6, 2023

VIA EMAIL AND U.S. MAIL

Honorable Monique M. Edwards
Commissioner of Conservation
617 North 3rd Street, 9th Floor
Baton Rouge, Louisiana 70802

Re: Jack R. Gamble, Jr., LLC v. Indigo Minerals
LLC, Docket No. 2023-3171-DNR-OOC
DNR OC Legacy No. 042-003-001

Dear Ms. Edwards:

On behalf of Indigo Minerals LLC, this will respond to the letter from the Office of Conservation dated June 2, 2023 in connection with the referenced limited admission hearing. Conservation's letter was sent by email in the late afternoon on Friday, June 2.

Conservation's letter states that it has determined that Indigo Minerals' proposed plan does not meet the requirements outlined in Chapter 6 of Statewide Order 29B in certain respects that are specified in the letter. Indigo Minerals disagrees with that determination and will respond to each of the assertions below. In addition, we have attached a letter dated June 5, 2023, from Hydro-Environmental Technology, Inc. ("HET") that further addresses each of those assertions. To the extent any of our responses require further explanation, our HET witnesses will be prepared to fully testify on these issues and answer any questions from the panel members.

We are concerned that postponing the limited admission hearing could deprive Indigo Minerals of its legal right to proceed with a limited admission hearing given the scheduled trial date in late October of this year. Article 1563 of the Louisiana Code of Civil Procedure affords Indigo Minerals the right to make a limited admission in cases governed by La. R.S. 30:29. In addition, Article 1563 extends to Indigo Minerals the right to admit into evidence at the trial of this action the limited admission and the plan approved by the Department. Indigo Minerals has exercised those rights in this proceeding by making a timely limited admission and by paying to the Department the sum of \$100,000 as an advance to cover the Department's costs in this proceeding.

La. R.S. 30:29(C) sets out the procedure by which the Department is to fulfill its role in the limited admission process. On March 15, 2023, Indigo Minerals submitted its proposed plan to the Department. Pursuant to La. R.S. 30:29(C)(1), the plaintiff, Jack R. Gamble, Jr., LLC, had thirty days to submit its own plan, or to comment or respond to Indigo Minerals' proposed plan. Gamble LLC did not submit a plan, but did submit a response by letter dated April 14, 2023. Pursuant to La. R.S. 30:29(C)(2), within sixty days of Gamble LLC's submission, the Department is required to

conduct a public hearing on the plan submitted. Pursuant to those rules, a public hearing in this matter was scheduled to commence on June 12, 2023.

In reliance on the timing mandated by R.S. 30:29(C), the case management order established deadlines for making a limited admission that would allow for the completion of the limited admission process prior to the commencement of the trial in the underlying civil proceeding. The trial is set to commence on October 23, 2023. Indigo Minerals' receipt of the benefits afforded by Article 1563 would be thwarted if the mandatory timing provisions of R.S. 30:29(C) were not adhered to by the Department. In order to have a plan approved by the Department by the trial date, the limited admission hearing would need to proceed as scheduled and as mandated by R.S. 30:29(C). The last sentence of R.S. 30:29(C)(2) provides the only mechanism for departing from the mandatory timing provisions.

On motion of the department, for good cause shown, the court may grant the department additional time, not to exceed sixty days, within which to either conduct the hearing or approve a plan with reasons.

The Department has not filed a motion for additional time, and Indigo Minerals respectfully requests that the limited admission hearing proceed as scheduled on June 12, 2023.

Turning to the proposed plan, Indigo Minerals submits that it does meet the requirements of Chapter 6 of Statewide Order 29B. Conservation's letter dated June 2 identifies ten particulars, which are addressed below:

1. The former Ramsey water well. RECAP Section 2.10 relates to groundwater classification and provides: "If a domestic or agricultural water supply well is located within one mile of the AOI property boundaries and is screened in the same stratum as the aquifer of concern or has a direct hydraulic connection, then the aquifer shall be classified as a Groundwater Classification 2 aquifer." That provision is not implicated here for two reasons.

First, the Ramsey water well no longer exists and has not existed for many years. The well registration (031-308) was filed in 1955 and reported that the well served a dairy farming operation. On May 16, 2023, the panel members for this limited admission proceeding conducted a site visit and went to the Ramsey water well site. Based on that visit, they were able visually to confirm that the dairy operation had been abandoned and clearly had not been operational for years. Moreover, by email dated June 1, 2023, I was able to confirm to the Department that the heirs of Mr. Ramsey reported having no memory of the water well being in service. I also advised that the Department had been granted permission to enter the Ramsey property and to confirm for itself the non-existence

of the water well. Finally, as stated in the attached letter from HET, their site visit, conducted on June 5, verified that the Ramsey water well no longer exists.

Second, as set forth in the HET letter, the elevation differences between the Ramsey water well and the AOI make it impossible for the Ramsey water well to be screened in the same stratum as the groundwater encountered in the AOI, and there is no direct hydraulic connection.

Indigo Minerals submits that its proposed plan is compliant with RECAP Section 2.10 and with LAC 43:XIX.611.F.

2-5. Delineation of Total Barium at Certain Limited Admission Areas. HET's letter addresses these assertions from a technical standpoint. From a legal standpoint, RECAP Section 2.6.1.3 makes it clear that Indigo Minerals' proposed plan is fully compliant with LAC 43:XIX.611.B without any further delineation of total barium. RECAP Section 2.6.1.3 provides, in pertinent part, as follows:

The AOI shall be delineated by comparing the constituent concentration at each sampling location **with the appropriate limiting soil standard for Option being implemented**. All sampling locations having a constituent concentration that **exceeds the limiting soil standard** shall be identified for inclusion in the AOI. **Based on these identified sampling locations**, the horizontal and vertical boundaries of the AOI shall be delineated.

RECAP Section 2.6.1.3 expressly provides that delineation of constituents is to be based on "the appropriate limiting soil standard for Option being implemented." Under Indigo Minerals' proposed plan, the "Option being implemented" is Management Option 1. Pursuant to that option, the applicable limiting soil standard for Total Barium is 5,500 mg/Kg. None of the sample locations had an exceedance of 5,500 mg/Kg for Total Barium. Therefore, by the express provisions of RECAP 2.6.1.3, no further delineation is required for Total Barium, and Indigo Minerals' proposed plan is fully compliant with LAC 43:XIX.611.B.

6. Matrix Spike/Matrix Spike Duplicates were provided. Per HET's attached letter, these analyses were performed and the results were included in Indigo Minerals' proposed plan. See Appendix E of the proposed plan.

7. All Rig Supply Wells are included in figures in the proposed plan. Per HET's attached letter, the figures accompanying Indigo Minerals' proposed plan do show the locations of all pertinent rig supply wells. See Figure 13 of the proposed plan and Appendix F.

8. **There is no sample data for locations labeled as EB-1.** Per HET's attached letter, the locations labeled as EB-1 were installed by Approach Environmental and are included in Appendix K of the proposed plan. Indigo Minerals is not aware of any samples being collected from these locations. Therefore, there was no sample data from these locations that could have been included in the proposed plan.

9. **The summary tables report groundwater results in the correct units.** Per HET's attached letter, the summary tables included in Appendix C report the sample results in the units specified by the applicable regulations.

10. **The future intended use of the property was provided.** Per HET's attached letter, the proposed plan, in Section 1.1, does provide the future intended use of the property -- timber harvesting, oil and gas exploration and production and recreational (hunting). Gamble LLC's response to the proposed plan took no issue with these uses. Moreover, as HET explains, the constituent concentrations present no limitations on any reasonably intended uses of the property.

Based on the foregoing, Indigo Minerals' respectfully submits that its proposed plan does meet the requirements of Chapter 6 of Statewide Order 29B. In addition, to the extent this submission does not fully resolve any questions about Indigo Minerals' plan, those questions can be addressed at next week's hearing. Indigo Minerals' further submits that it is entitled by law to proceed with the limited admission hearing scheduled to commence on June 12, 2023, and requests the Department to confirm that the hearing will proceed as scheduled.

Respectfully submitted,

Sincerely,

SINCLAIR LAW FIRM, LLC

By



Scott C. Sinclair

SCS/my
encl.

Honorable Monique M. Edwards
June 6, 2023
Page 5

cc (w/encl): Honorable Nicholas E. Gasper (via email)
 Honorable Leighann N. Gilbeau (via email)
 John Adams (via email)
 Jonathan Rice (via email)
 All counsel of record (via email)



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.

Environmental Consultants

P.O. Box 60295

Lafayette, LA 70596-0295



620 Apollo Road
Scott, LA 70583
Phone (337) 261-1963

www.hydro-environmentaltechnology.com

June 05, 2023

Mr. Scott C. Sinclair
Attorney at Law
Sinclair Law Firm
P.O. Box 1026
Shreveport, Louisiana 71163-1026

Re: **Response to Agency Comments**

Site Investigation Report and Proposed Remediation Plan
Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC
42nd Judicial District Court, Docket No. 81488, Division "B"
Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields
Sections 26, 34, and 35; Township 13 North; Range 16 West and
Section 02, Township 12 North, Range 16 West
DeSoto Parish, Louisiana
LDNR OC Legacy Project No. 042-003

Dear Mr. Sinclair:

Hydro-Environmental Technology, Inc. (HET) has reviewed comments raised by the Louisiana Department of Natural Resources (LDNR) Office of Conservation regarding the captioned Plan in a letter dated June 02, 2023, and offer the following responses. Note that the Plan dated March 15, 2023, was prepared in connection with a Limited Admission made by Indigo Minerals, LLC (Indigo) in the captioned case. For reference, Figure 1 contains a topographic map illustrating the locations of the Property included in the petition. Figure 2 contains a current aerial photograph illustrating the locations of the Limited Admission Areas (LAAs).

- 1. Office of Conservation records indicate water well 031-308 is located within one mile of the subject property boundary and is listed as an active domestic supply well, screened in the interval in question. RECAP Section 2.10 Groundwater Classification 3 notes: "If a domestic or agricultural water supply well is located within one mile of the AOI properly boundaries and is screened in the same stratum as the aquifer of concern or has a direct hydraulic connection, then the aquifer shall be classified as a Groundwater Classification 2 aquifer." The referenced plan to address groundwater is not in compliance with RECAP Section 2.10 and LAC 43:XIX.611.F.***

The referenced former water well 031-308 is not screened in the same stratum and is not in direct hydraulic communication with the shallow water bearing zones encountered on the Gamble property (the "Property"). Data demonstrates that the shallow water bearing zones encountered on the Property are discontinuous in nature and incapable of being in hydraulic communication regionally (Figures 14 to 17 of the Plan). Furthermore, the elevation of the former water well 031-308 well is listed at 305 feet above sea level (ASL) with a measured depth of 22.1 feet below top of casing. Therefore, the bottom of the "screened interval" of the former water well would be at an approximate elevation of 282.9 feet ASL. Comparatively, the highest surface elevation of a monitor well on the Property is 269.18 feet ASL (240833 MW-7), with groundwater encountered twenty (20) feet below the top of casing (249.18 feet ASL).

Thus, the monitor wells installed as part of the investigation of the Property are not screened in the same interval as the former water well as this interval does not exist on the Property as a result of being eroded away from the top of the Sabine Uplift. Additionally, given the limited yield calculated as less than 800 gallons per day (Appendix J of the Plan) results in a groundwater classification of GW₃ in accordance with RECAP, Section 2.10.

Additionally, HET observed the Ramsey property on June 05, 2023 on which the former water well was installed and was unable to locate the well. HET will be happy to coordinate a site inspection with appropriate agencies to document that the well is not present.

Finally, the captioned Plan included a hypothetical groundwater remediation proposal (Appendix N of the Plan) in the event that the department required such an option for compliance with LAC 43:XIX.611.F. Furthermore, the Plan includes an option for groundwater monitoring to evaluate concentration trends in accordance with LAC 43:XIX.309.

2. *Total Barium at Limited Admission Area SN 239274 is not fully delineated, in particular sample locations SB-1 and SB-2/2R-LAC 43:XIX.611.B.*

Laboratory analytical results from soil samples collected were analyzed for True Total Barium per Statewide Order 29-B and total barium per Environmental Protection Agency (EPA) SW-846 Method 6010B. All reported concentrations of True Total Barium were below the Statewide Order 29-B standard of 40,000 ppm considering upland criteria. Additionally, all reported metal concentrations were determined to be below the RECAP 2003 screening standards, with the exception of barium in Approach Environmental (AE) soil boring SB-2 at a depth of eight (8) to ten (10) feet BLS. The total barium concentration of 2,390 ppm was reported above the RECAP 2003 non-industrial and soil protective of groundwater screening standards but below the RECAP 2003 Management Option 1 standard of 5,500 ppm. The LDNR letter references SB-1, but no barium analysis was run on samples from that location.

HET was not on-site during the installation of this boring in August of 2020 and installed reproduction boring SB-2R in April of 2021. The additional analyses at SB-2R at a depth of eight (8) to ten (10) feet BLS by both HET and AE demonstrated that the barium concentrations is below the threshold to result in cross media transfer by comparing the SPLP barium analysis to the result of the default dilution and attention factor (DAF) of twenty (20) multiplied by the groundwater drinking water standard of two (2) mg/L for barium, thus eliminating the RECAP 2003 soil protective of groundwater screening standard of 2,000 ppm from consideration. Furthermore, AE split sample reported a barium concentration of 261 ppm, which did not confirm the initial level of total barium reported in 2020. This is consistent with several concentrations reported in the AE data that were unable to be confirmed through re-analyses. As a result, all concentrations were determined to meet RECAP 2003 screening (550 ppm) and Management Option 1 (5,500 ppm) standards.

Therefore, pursuant to RECAP Section 2.6.1.3, total barium has been fully delineated.

3. *Total Barium at Limited Admission Area SN 239592 is not fully delineated, in particular sample location SB-2/2R - LAC 43:XIX.611.B.*

All concentrations of True Total Barium reported concentrations below the Statewide Order 29-B standard of 40,000 ppm considering upland criteria. Additionally, all reported metal concentrations were determined to be below the RECAP screening standards, with the exception of barium in AE soil boring SB-2 and HET soil boring SB-2R. The reported concentrations, however, are below the updated RECAP screening standard of 1,600 mg/Kg, the MO-1 standard of 5,500 mg/Kg, and the soil protective of groundwater standard of 2,000 mg/Kg.

Therefore, pursuant to RECAP Section 2.6.1.3, total barium has been fully delineated.

4. Total Barium at Limited Admission Area SN 240035 is not fully delineated, in particular sample locations SB-1/1R, SB-3, and MW-1- LAC 43:XIX.611.B.

All concentrations of True Total Barium reported concentrations below the Statewide Order 29-B standard of 40,000 ppm considering upland criteria. Additionally, all reported metal concentrations were determined to be below the RECAP screening standards, with the exception of barium in AE soil borings SB-1, SB-3R and MW-1. All reported concentrations are below the updated RECAP screening standard of 1,600 mg/Kg, the MO-1 standard of 5,500 mg/Kg, and the soil protective of groundwater standard of 2,000 mg/Kg, with the exception of the soil sample collected from AE soil boring SB-1 and HET soil boring SB-1R at a depth of eight (8) to ten (10) feet BLS, which reported initial concentrations of 2,380 mg/Kg and 1,650 mg/Kg, respectively.

HET was not present during AE's assessment conducted in 2020 and installed a reproduction boring in April of 2021. The barium concentration was unable to be confirmed in split samples by AE during HET's investigation at concentrations above the soil protective of groundwater standard of 2,000 mg/Kg, with the reproduction concentration reported as 1,650 mg/Kg. Furthermore, similar analyses of SPLP barium as described above have determined that the residual barium concentration is below the threshold to result in cross media transfer, thus eliminating the soil protective of groundwater standard of 2,000 ppm from consideration.

Therefore, pursuant to RECAP Section 2.6.1.3, total barium has been fully delineated.

5. Total Barium at Limited Admission Area SN 240037 is not fully delineated, in particular sample locations SB-1/1R and SB-2/2R-LAC 43:XIX.611.B.

All concentrations of True Total Barium reported concentrations below the Statewide Order 29-B standard of 40,000 ppm considering upland criteria. Additionally, all reported metal concentrations were determined to be below the RECAP screening standards, with the exception of barium in AE soil borings SB-1, SB-2 and MW-2 and HET soil borings SB-1R and SB-2R. The reported concentrations, however, are below the MO-1 standard of 5,500 mg/Kg and the soil protective of groundwater standard of 2,000 mg/Kg. Furthermore, all but one (1) sample, being the sample collected from HET soil boring SB-2R from a depth of eight (8) to ten (10) feet BLS, reported concentrations below the updated RECAP screening standard of 1,600 mg/Kg as determined in Section 5.5 of the Plan.

Therefore, pursuant to RECAP Section 2.6.1.3, total barium has been fully delineated.

6. As part of the Quality Assurance/Quality Control, Matrix Spike/Matrix Spike Duplicates were not provided- RECAP Section 2.4 and LAC 43:XIX.611.F.

Matrix Spike and Matrix Spike Duplicate analyses were performed at the selection of the laboratory for samples submitted by HET to SGS and Waypoint. The results of these quality assurance results are included in each laboratory report associated with HET samples. These reports were included in Appendix E of the Plan.

7. Multiple rig supply wells were not included on the figures provided in the referenced plan – LAC 43:XIX.609.A.3.

The locations of rig supply wells were included in Figure 13 of the Plan which HET understands complies with applicable regulations. For clarification and demonstrative purposes, please refer to Figure 3 (revised Figure 5 from the Plan) for a depiction of the location of rig supply wells on the Property. Note that the locations are based on the coordinates listed in the LDNR database and not the actual location on the well pad. HET can provide updated coordinates as necessary.

- 8. Sample data for locations labeled as EB-1 at Limited Admission Area SN 239274, Limited Admission Area SN 239592, and Limited Admission Area SN 240037 were not provided in the referenced plan — LAC 43:XIX.611.D.I and E.**

HET depicted the location of the series of borings labeled as EB-1 on each well pad as installed by AE and included the AE report for reference in Appendix K of the Plan. The EB borings were installed in locations at distance from the operational area apparently for lithologic purposes only with no samples collected by AE or included in its report. HET was not on-site during this sampling event and is not aware of any samples collected from these locations by AE.

- 9. Multiple soil and groundwater sample results presented in summary tables are not in the same units as the appropriate regulatory standard - RECAP Section 2.5 and LAC 43:XIX.611.F.**

All reported concentrations were tabulated in accordance with applicable comparative standards in the HET tables contained in Appendix C of the Plan, which included the results from AE. Unless otherwise referenced, all concentrations were reported on parts per million (ppm), either as milligrams per Kilogram (mg/Kg) or milligrams per Liter (mg/L). Notable exceptions to this include the Statewide Order 29-B salt-related parameters (EC, SAR, ESP) and oil and grease, which are reported in units consistent with LAC 43:XIX.313.

- 10. Future intended use of the property has not been provided-RECAP Section 3.4 and LAC 43:XIX.611.F.**

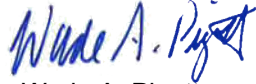
The Property is primarily utilized to harvest timber, as well as oil and gas exploration and production activities and recreational uses (hunting) as described in Section 1.1 of the Plan. The Lease agreement also includes potential future uses of the Property in Item 28. Furthermore, the Plan presented is protective of human health and the environment under a non-industrial exposure scenario. As a result, any potential remnant constituent concentrations, if any, do not pose limitations or encumbrances on any reasonably intended future use of the property. The incorporation of regulatory standards was part of the overall assessment conducted to ensure that the Property could be used for its intended purposes.

The Plan is based on field data collected and information received from the client, other parties associated with the client and other third parties during the period of September 28, 2020 to June 05, 2023. All conclusions and recommendations are based on available information cited herein and should be reviewed within this context. Should conditions at the site in question change, or additional information become available, especially with regard to prior site conditions, it may be necessary to modify these conclusions and recommendations accordingly in the future. The contents of this Plan are proprietary, and text, illustrations, and/or any other parts of this Plan may not be reproduced without the express written permission of HET.

Hydro-Environmental Technology, Inc. appreciates the opportunity to provide this plan for professional environmental services. Should you have any questions or need further information, please feel free to contact us.

Sincerely,

HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.



Wade A. Pigott
Chief Hydrogeologist

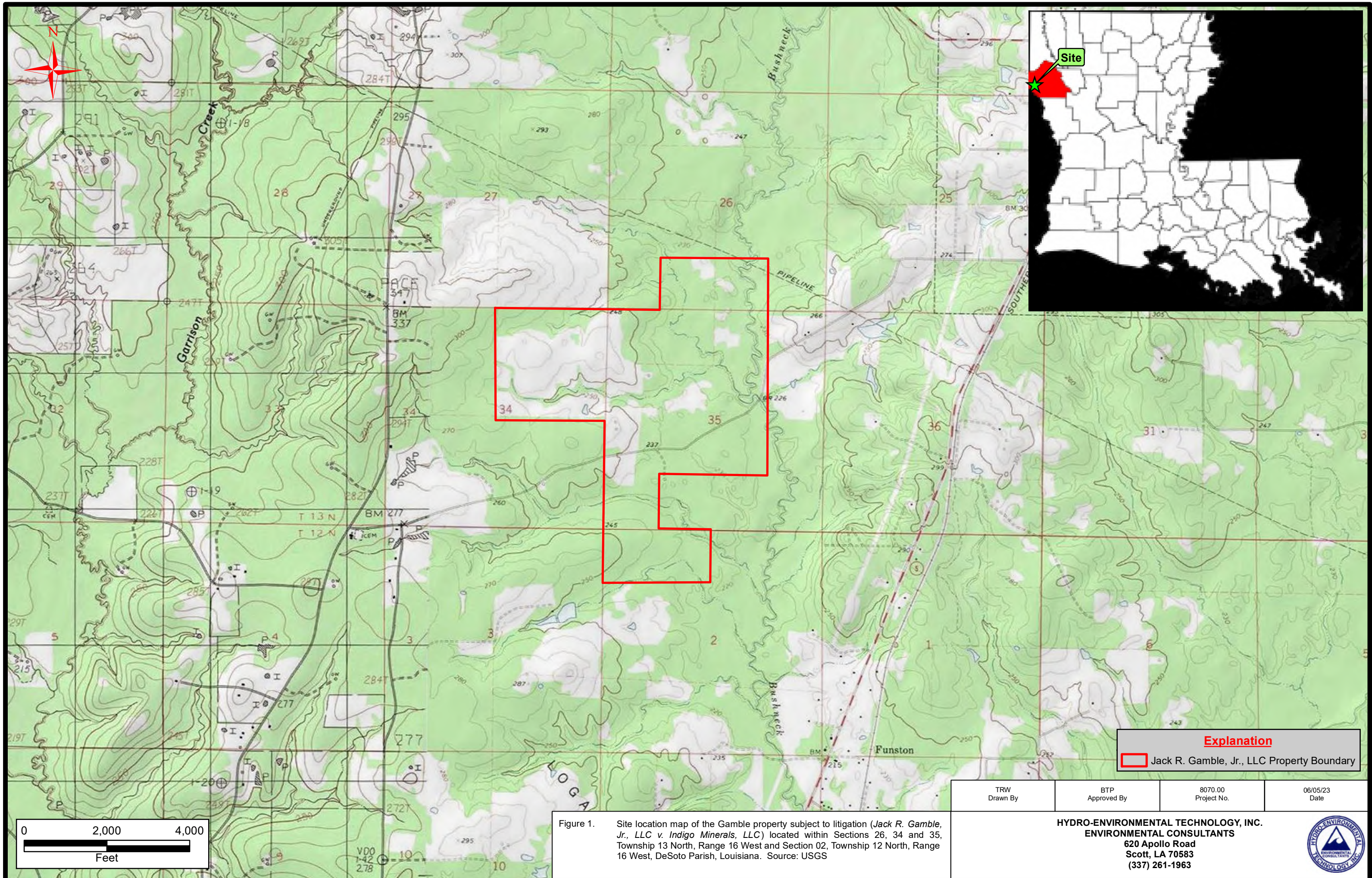


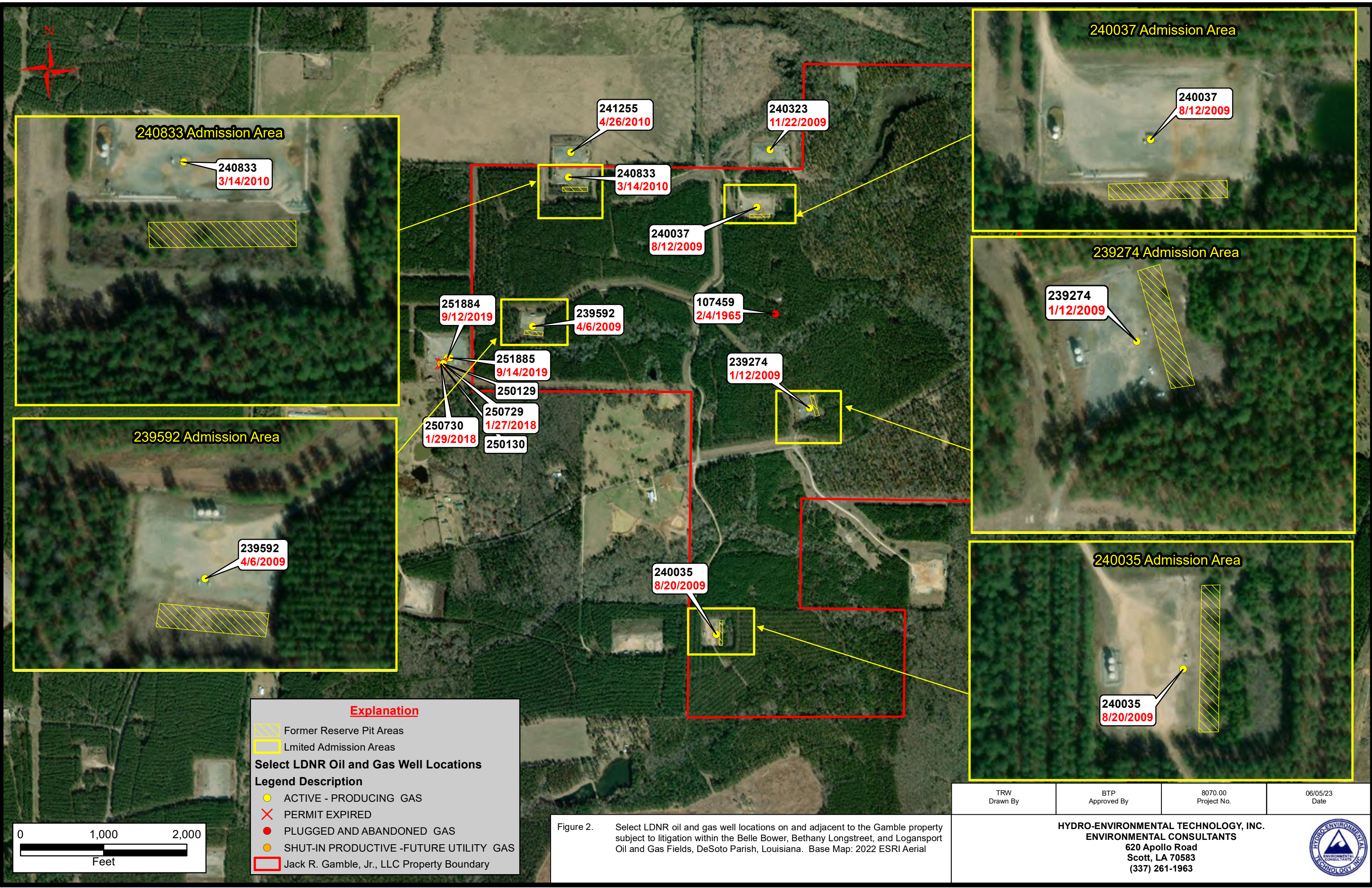
Brent T. Pooler
Principle Risk Analyst



WAP/BTP/eop

FIGURES





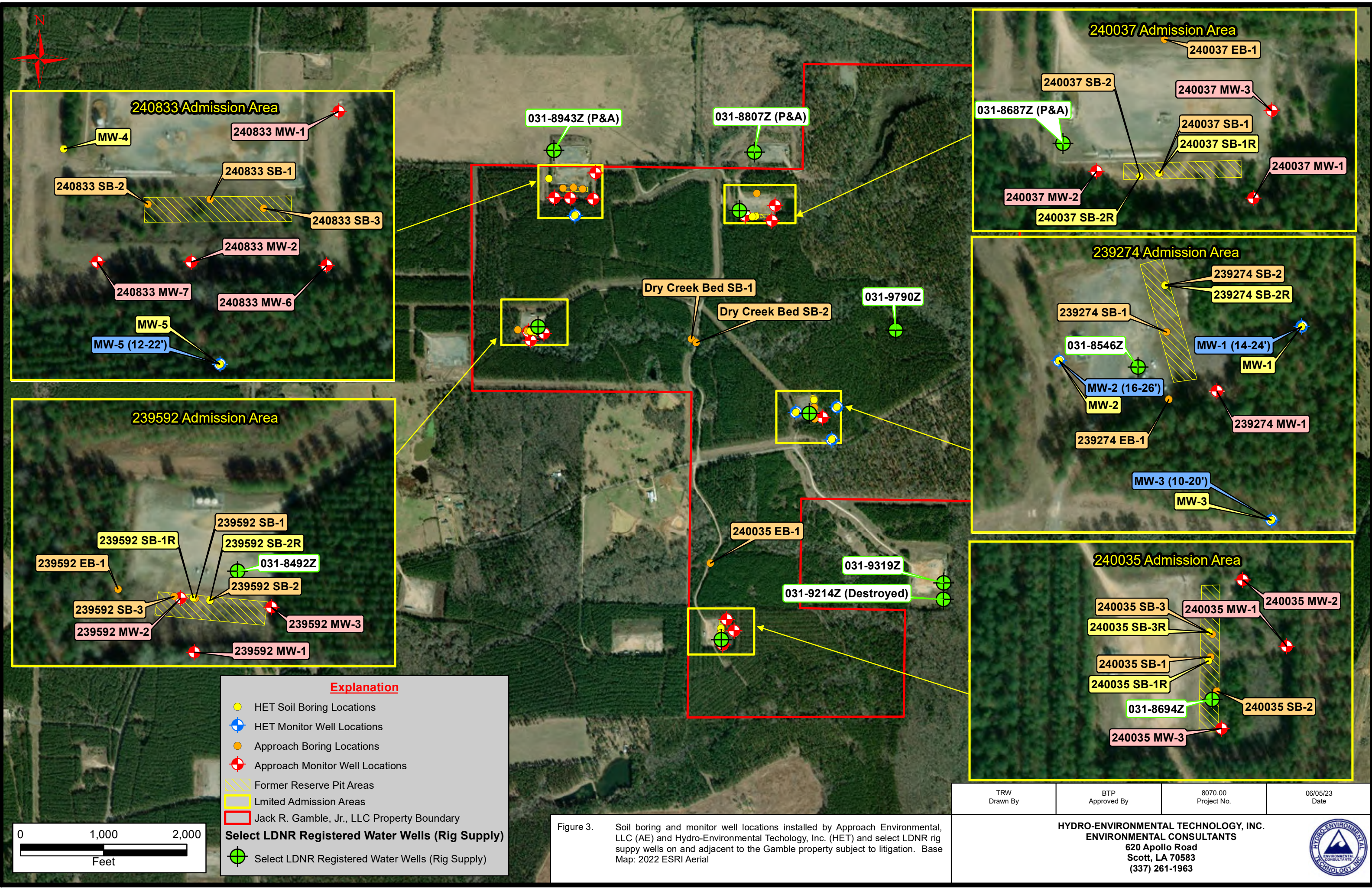


Figure 3. Soil boring and monitor well locations installed by Approach Environmental, LLC (AE) and Hydro-Environmental Technology, Inc. (HET) and select LDNR rig supply wells on and adjacent to the Gamble property subject to litigation. Base Map: 2022 ESRI Aerial

Brent T. Pooler

From: Scott C. Sinclair <ssinclair@sinclair-law.com>
Sent: Tuesday, June 6, 2023 5:31 PM
To: Stewart L. Stover; Wade A. Pigott; Brent T. Pooler
Cc: Craig Isenberg; Taylor L. Gamm
Subject: FW: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

SWB:

Here is the feedback from our letters. We'll schedule a time to discuss further.

From: Jonathan Rice <Jonathan.Rice@la.gov>
Sent: Tuesday, June 6, 2023 5:23 PM
To: Scott C. Sinclair <ssinclair@sinclair-law.com>; 'Kevin Huddell' <KHuddell@jonesswanson.com>; 'Edwin Hightower' <ehightower@adminlaw.la.gov>
Cc: Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@LA.GOV>; Claudia Rush (DNR) <Claudia.Rush4@la.gov>; 'Bernard Boudreaux' <BBoudreaux@jonesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; 'OAL Processing' <OALProcessing@adminlaw.la.gov>; 'Cheryl Berner' <CBerner@jonesswanson.com>; 'Gladstone Jones' <GJones@jonesswanson.com>; 'Taylor Townsend' <taylor@taylortownsendlaw.com>; 'Craig Isenberg' <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; 'Alan Ezkovich' <Alan.Ezkovich@ezkovichlaw.com>; 'Lynn Swanson' <LSwanson@jonesswanson.com>; john.king@bswllp.com; 'Taylor L. Gamm' <tgamma@barrassousdin.com>; dluder@barrassousdin.com; 'Jude C. Bursavich' <jude.bursavich@bswllp.com>; 'Michael Arata' <MArata@jonesswanson.com>; 'John Arnold' <JArnold@jonesswanson.com>; 'Alayne Gobeille' <agobeille@jonesswanson.com>; 'Tom Dixon' <tdixon@jonesswanson.com>; 'Rosa Acheson' <RAcheson@jonesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>; Jonathan Rice <Jonathan.Rice@la.gov>
Subject: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

Mr. Sinclair:

The Division of Administrative Law has continued this matter in light of the Office of Conservations June 2nd letter sent to your office. We are again requesting that Indigo move for a continuance (on behalf of the DNR/OC) by tomorrow, June 7, 2023, so a Statewide Order 29B compliant plan can be submitted to this Office for review.

Again, please see the reasons set forth in Conservation's June 2nd letter; and furthermore, please see the reasons and responses (to your June 6th letter to the Commissioner) set forth below.

1. A picture of the well and affidavit by both parties confirming that the picture is an accurate representation that that there is not well present.
2. Provide cross sections, including all available data (rig supply wells and EB borings).
3. Hypothetical plan must include the following missing information: a text description of the plan and what methodology would be performed for each well.
4. SN 239274: Provide samples for locations to the north, east and west of SB-2.

5. SN 239592: Provide a delineation to the east and north and SPLP for SB-2/2R (8-10) at the depth of 8-10 ft bgs.
6. SN 240035: Provide delineation from east, south, and west for sample SB1/1R at the depth of 8-10 ft bgs. Provide delineation samples for north, east, and west of this location for SB-3 at the depth of 0-2 ft bgs. MW-1 at 8-12 ft bgs should be sampled above and below for delineation. Horizontally it should be delineated at the highest exceedance for barium.
7. SN 240037: More samples needed for these areas: SB-1/1R at the depth of 0-2 ft bgs should be horizontally delineated. SB-2/2R at the depth of 8-10 ft bgs should be sampled above and below for barium.
8. Please provide all data in the tables in the same units as required by – RECAP Section 2.5 & LAC 43:XIX.611.F.
9. It is noted that Indigo's June 6th letter provides the intended future use of the property.
10. According to RECAP Section 2.4 and LAC 43:XIX.611.F, 1 matrix spike/matrix spike duplicate from the site per 20 field samples shall be provided.

The sooner your client provides the necessary requested information for a compliant plan, the sooner Conservation can reset the Administrative Hearing to provide sufficient time prior to your trial set in October 23, 2023. Please notify Conservation if Indigo does not intend to file a Continuance on DNR//OC's behalf. Thank you for your time and attention to this matter.

Best regards,

F. Jonathan Rice, Attorney
LDNR / Office of Conservation
Executive Division
P.O. Box 94275
Baton Rouge, LA 70804-9275
Phone: (225) 342-9660
Fax: (225) 342-3705
Jonathan.rice@la.gov

CONFIDENTIALITY NOTICE

This email communication may contain confidential information which also may be legally privileged and is intended only for the use of the intended recipients identified above. If you are not the intended recipient of this communication, you are hereby notified that any unauthorized review, use, dissemination, distribution, downloading, or copying of this communication is strictly prohibited. If you are not the intended recipient and have received this communication in error, please immediately notify us by reply email, delete the communication and destroy all copies.

COMPUTER SYSTEM USE/CONSENT NOTICE

This message was sent from a computer system which is the property of the State of Louisiana and the Department of Natural Resources (DNR). It is for authorized business use only. Users (authorized or unauthorized) have no explicit or implicit expectation of privacy. Any or all uses of this system and all files on this system may be intercepted, monitored, recorded, copied, audited, inspected, and disclosed to Department of Natural Resources and law enforcement personnel. By using this system the user consents to such interception, monitoring, recording, copying, auditing, inspection, and disclosure at the discretion of DNR.

Brent T. Pooler

From: Scott C. Sinclair <ssinclair@sinclair-law.com>
Sent: Thursday, June 8, 2023 3:13 PM
To: Craig Isenberg; Wade A. Pigott; Stewart L. Stover; Brent T. Pooler
Subject: FW: Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001

From: Claudia Rush (DNR) <Claudia.Rush4@la.gov>
Sent: Thursday, June 8, 2023 3:04 PM
To: ssinclair@sinclair-law.com
Cc: Jonathan Rice <Jonathan.Rice@la.gov>
Subject: Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001

Good afternoon Mr. Sinclair,

We asked our technical petroleum scientist to clarify the deficiency issue regarding the barium delineation. She stated the following:

At the time we do not have a clear picture of the extent of the barium. While the barium is below MO-1 standards, it ends on a high concentration or does not have coordinating samples at the same depth horizontally to fully delineate. For instance, 240037-SB-2/2R at 8-10 feet does not have samples above 8 feet, nor was barium sampled below 10 feet.

I think this suggest further sampling is required at a slightly deeper depth or in different area. Please provide this to your consultants and feel free to contact us if you need further clarification on this point.

Sincerely,

Claudia Rush



Claudia I Rush
Attorney
Office of Conservation

Department of Natural Resources
Post Office Box 94275
LaSalle Building
617 North Third Street
Baton Rouge, LA 70804
Phone: 225-342-5510

Emal: claudia.rush4@la.gov

This e-mail (including any attachments) is covered by the Electronic Communications Privacy Act, U.S.C. Sections 2510-2521, is confidential, and is legally privileged. This message and its attachments may also be privileged and attorney work product. They are intended for the individual or entity named above. If you are not the intended recipient, please do not read, copy, use or disclose this communication to others. You are hereby noticed that any dissemination, distribution or copy of this communication is strictly prohibited. If you have received this communication in error, please notify me immediately by responsive e-mail.

CONFIDENTIALITY NOTICE

This email communication may contain confidential information which also may be legally privileged and is intended only for the use of the intended recipients identified above. If you are not the intended recipient of this communication, you are hereby notified that any unauthorized review, use, dissemination, distribution, downloading, or copying of this communication is strictly prohibited. If you are not the intended recipient and have received this communication in error, please immediately notify us by reply email, delete the communication and destroy all copies.

COMPUTER SYSTEM USE/CONSENT NOTICE

This message was sent from a computer system which is the property of the State of Louisiana and the Department of Natural Resources (DNR). It is for authorized business use only. Users (authorized or unauthorized) have no explicit or implicit expectation of privacy. Any or all uses of this system and all files on this system may be intercepted, monitored, recorded, copied, audited, inspected, and disclosed to Department of Natural Resources and law enforcement personnel. By using this system the user consents to such interception, monitoring, recording, copying, auditing, inspection, and disclosure at the discretion of DNR.

Brent T. Pooler

From: Scott C. Sinclair <ssinclair@sinclair-law.com>
Sent: Friday, June 16, 2023 10:14 AM
To: Stewart L. Stover; Wade A. Pigott; Brent T. Pooler
Subject: FW: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]
Attachments: Fig. HET Proposed Delineation Boring Locations (239274 Admission Area).pdf; Fig. HET Proposed Delineation Boring Locations (239592 Admission Area).pdf; Fig. HET Proposed Delineation Boring Locations (240035 Admission Area).pdf; Fig. HET Proposed Delineation Boring Locations (240037 Admission Area).pdf

FYI. This is what we sent to DNR on Wednesday.

We'll keep you posted on any response.

SCS

From: Scott C. Sinclair <ssinclair@sinclair-law.com>
Sent: Wednesday, June 14, 2023 1:53 PM
To: 'Claudia Rush (DNR)' <Claudia.Rush4@la.gov>; 'Gladstone Jones' <GJones@jonesswanson.com>; 'Jonathan Rice' <Jonathan.Rice@la.gov>
Cc: 'Kevin Huddell' <KHuddell@jonesswanson.com>; 'Edwin Hightower' <ehightower@adminlaw.la.gov>; 'Jamie Love (DNR)' <Jamie.Love@la.gov>; 'Houston Holley' <Houston.Holley@LA.GOV>; 'Bernard Boudreaux' <BBoudreaux@jonesswanson.com>; 'Gavin Broussard' <Gavin.Broussard@la.gov>; 'OAL Processing' <OALProcessing@adminlaw.la.gov>; 'Cheryl Berner' <CBerner@jonesswanson.com>; 'Taylor Townsend' <taylor@taylortownsendlaw.com>; 'Craig Isenberg' <cisenberg@barrassousdin.com>; 'swebre@barrassousdin.com' <swebre@barrassousdin.com>; 'Alan Ezkovich' <alan.ezkovich@ezkovichlaw.com>; 'Lynn Swanson' <LSwanson@jonesswanson.com>; 'john.king@bswllp.com' <john.king@bswllp.com>; 'Taylor L. Gamm' <tgamm@barrassousdin.com>; 'dluder@barrassousdin.com' <dluder@barrassousdin.com>; 'Jude C. Bursavich' <jude.bursavich@bswllp.com>; 'Michael Arata' <MArata@jonesswanson.com>; 'John Arnold' <JArnold@jonesswanson.com>; 'Alayne Gobeille' <agobeille@jonesswanson.com>; 'Tom Dixon' <tdixon@jonesswanson.com>; 'Rosa Acheson' <RAcheson@jonesswanson.com>; 'Monique Edwards (DNR)' <Monique.Edwards@la.gov>
Subject: RE: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

Jonathan and Claudia:

Thank you for the clarification that the only constituent for delineation is total Barium. That is how we understood the previous communications, but we appreciate you clarifying it.

Indigo Minerals reserves all substantive and procedural rights with respect to this entire matter. Nevertheless, as we have said previously, we will work cooperatively with the Commission to obtain additional information and we are committed to working with your office to obtain that information in a timely fashion so that the panel can timely formulate a final plan and so that Indigo's substantive and procedural rights to present that plan to the jury are preserved.

Regarding the Barium delineation, attached are maps showing the proposed sampling locations. Please share this information with the technical team and let us know if they have any comments or questions. Our plan is to begin this work on Monday, June 19. We also plan to request the lab to provide the Barium results on an expedited basis.

We look forward to hearing from you.

Scott C. Sinclair

Sinclair Law Firm
PO Box 1026
Shreveport, LA 71163-1026
(318) 562-3700
ssinclair@sinclair-law.com

From: Claudia Rush (DNR) <Claudia.Rush4@la.gov>

Sent: Monday, June 12, 2023 5:02 PM

To: Gladstone Jones <GJones@joneesswanson.com>; Jonathan Rice <Jonathan.Rice@la.gov>

Cc: Scott C. Sinclair <ssinclair@sinclair-law.com>; Kevin Huddell <KHuddell@joneesswanson.com>; Edwin Hightower <ehightower@adminlaw.la.gov>; Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@LA.GOV>; Bernard Boudreaux <BBoudreaux@joneesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; OAL Processing <OALProcessing@adminlaw.la.gov>; Cheryl Berner <CBerner@joneesswanson.com>; Taylor Townsend <taylor@taylortownsendlaw.com>; Craig Isenberg <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; Alan Ezkovich <alan.ezkovich@ezkovichlaw.com>; Lynn Swanson <LSwanson@joneesswanson.com>; john.king@bswllp.com; Taylor L. Gamm <tgamm@barrassousdin.com>; dluder@barrassousdin.com; Jude C. Bursavich <jude.bursavich@bswllp.com>; Michael Arata <MArata@joneesswanson.com>; John Arnold <JArnold@joneesswanson.com>; Alayne Gobeille <agobeille@joneesswanson.com>; Tom Dixon <tdixon@joneesswanson.com>; Rosa Acheson <RAcheson@joneesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>

Subject: RE: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

Good afternoon Mr. Jones,

After reviewing your email, we would like to clarify a certain point. The June 6th email, which was sent to both parties, is a clarification of the June 2nd email. As part of our review we need a delineation of the onsite **total Barium** only. Our technical team has not requested nor needs a delineation of any other constituents.

Sincerely,
Claudia Rush



Boring: PB-2
Type: Horizontal
Constituent: Total Barium
Depth: 8-10 ft

Boring: PB-3
Type: Horizontal
Constituent: Total Barium
Depth: 8-10 ft

Boring: PB-1
Type: Horizontal
Constituent: Total Barium
Depth: 8-10 ft

239274 SB-2R
239274 SB-2

239274 SB-1

HET MW-1 (14-24')

HET MW-2 (16-26')

239274
1/12/2009

239274 MW-1

239274 EB-1

HET MW-3 (10-20')

Well Serial
Spud Date

Explanation

- HET Proposed Delineation Soil Borings (SN 239274)
- Approximate Property Boundary (Approach)
- HET Monitor Well Locations
- HET Boring Locations
- Approach Monitor Well Locations
- Approach Boring Locations
- Approximate Reserve Pit Locations (Approach)
- Gas Well - Serial Number/Spud Date

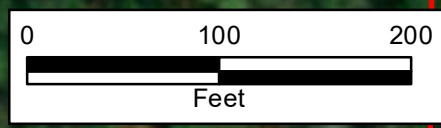
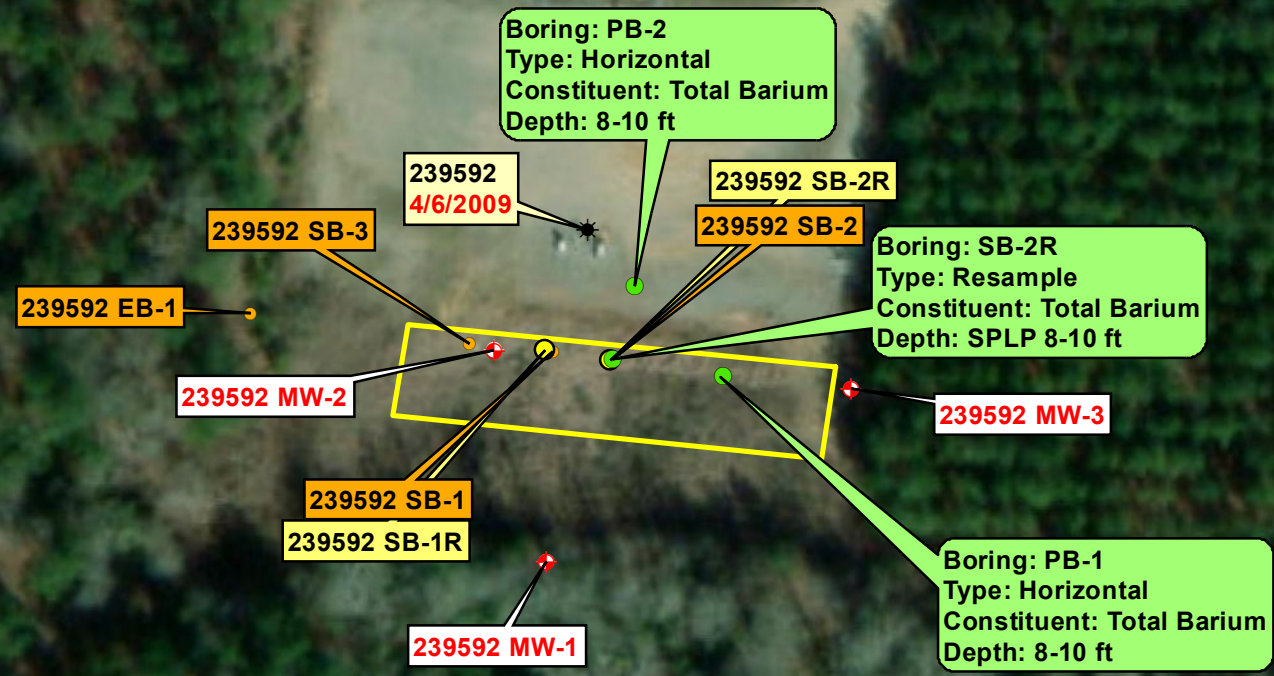


Figure 239274. HET proposed delineation soil borings on and adjacent to Well Pad-239274 on the Gamble property located near Longstreet, DeSoto Parish, Louisiana. Base Map: 2022 ESRI Aerial

TRW Drawn By	BTP Approved By	8070.00 Project No.	06/13/2023 Date
-----------------	--------------------	------------------------	--------------------

HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
ENVIRONMENTAL CONSULTANTS
620 Apollo Road
Scott, LA 70583
(337) 261-1963



Well Serial
Spud Date

Explanation	
	HET Proposed Delineation Soil Borings (SN 239592)
	Approximate Property Boundary (Approach)
	HET Monitor Well Locations
	HET Boring Locations
	Approach Monitor Well Locations
	Approach Boring Locations
	Approximate Reserve Pit Locations (Approach)
	Gas Well - Serial Number/Spud Date

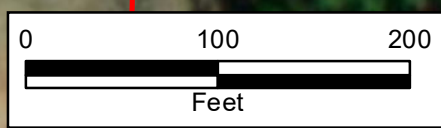
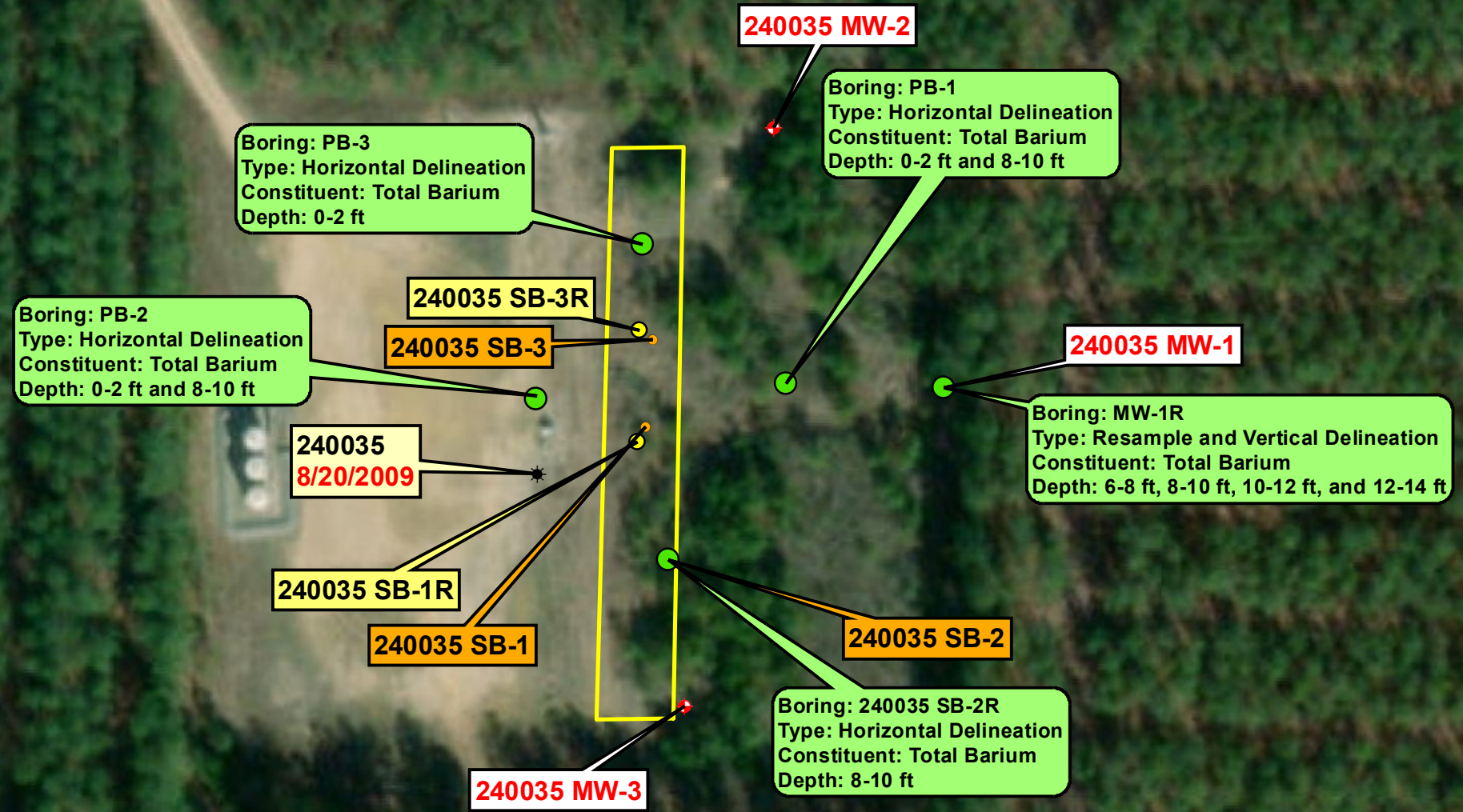


Figure 239592. HET proposed delineation soil boring locations on and adjacent to Well Pad-239592 on the Gamble property located near Longstreet, DeSoto Parish, Louisiana. Base Map: 2022 ESRI Aerial

TRW Drawn By	BTP Approved By	8070.00 Project No.	06/13/2023 Date
-----------------	--------------------	------------------------	--------------------

HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
ENVIRONMENTAL CONSULTANTS
620 Apollo Road
Scott, LA 70583
(337) 261-1963



**Well Serial
Spud Date**

Explanation	
	HET Proposed Delineation Soil Borings (SN240035)
	HET Monitor Well Locations
	HET Boring Locations
	Approach Monitor Well Locations
	Approach Boring Locations
	Approximate Reserve Pit Locations (Approach)
	Gas Well - Serial Number/Spud Date

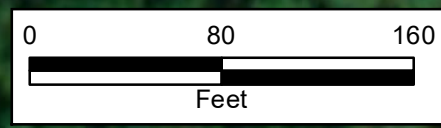
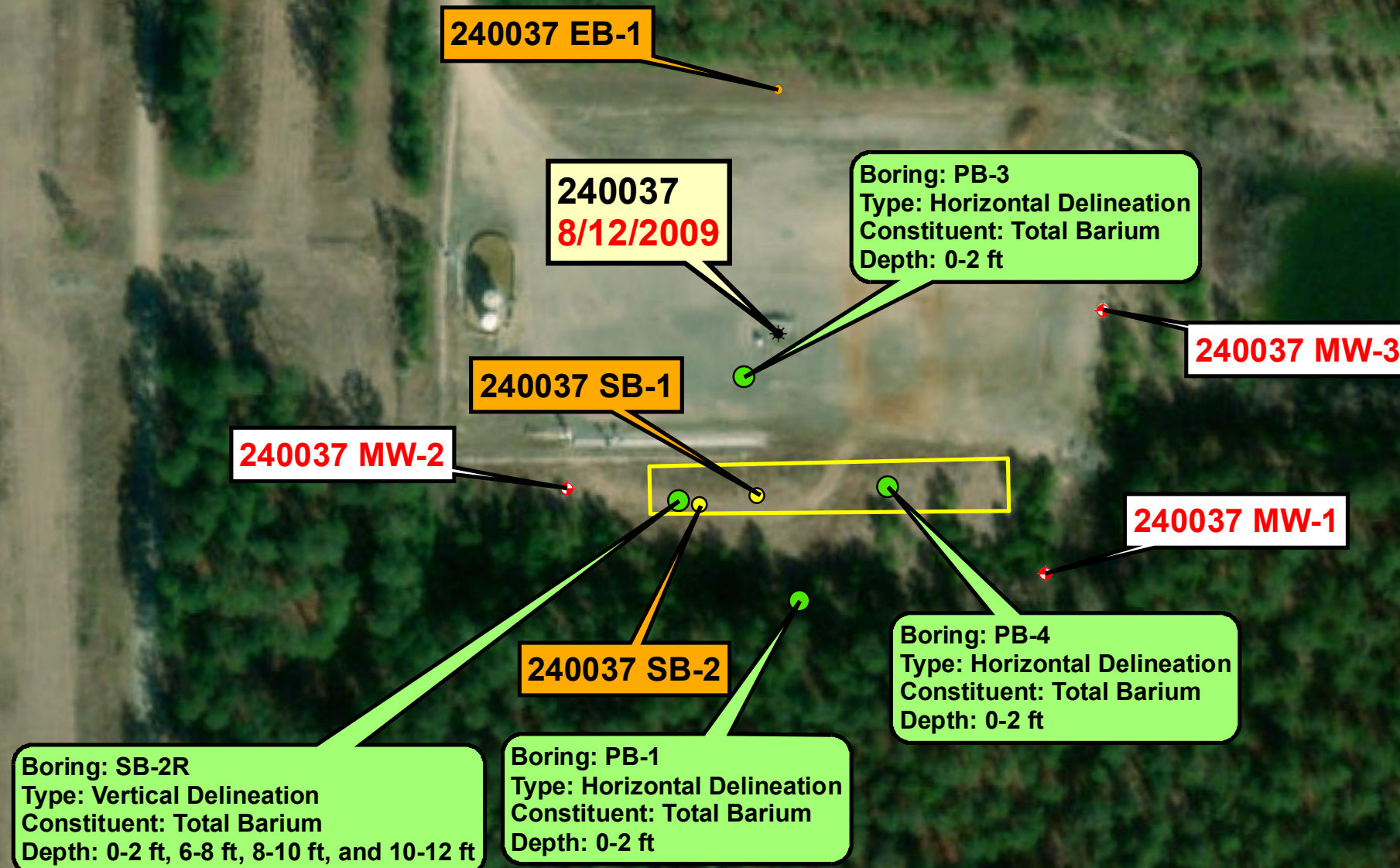


Figure 240035. HET proposed delineation soil borings on and adjacent to Well Pad-240035 on the Gamble property located near Longstreet, DeSoto Parish, Louisiana. Base Map: 2022 ESRI Aerial

DJB Drawn By	BTP Approved By	8070.00 Project No.	06/13/2023 Date
-----------------	--------------------	------------------------	--------------------

HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
ENVIRONMENTAL CONSULTANTS
620 Apollo Road
Scott, LA 70583
(337) 261-1963



Well Serial
Spud Date

Explanation	
	HET Proposed Delineation Soil Borings (SN240037)
	Approximate Property Boundary (Approach)
	HET Monitor Well Locations
	HET Boring Locations
	Approach Monitor Well Locations
	Approach Boring Locations
	Approximate Reserve Pit Locations (Approach)
	Gas Well - Serial Number/Spud Date

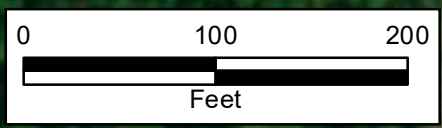


Figure 240037. HET proposed delineation soil borings on and adjacent to Well Pad-240037 on the Gamble property located near Longstreet, DeSoto Parish, Louisiana. Base Map: 2022 ESRI Aerial

DJB Drawn By	BTP Approved By	8070.00 Project No.	06/13/2023 Date
-----------------	--------------------	------------------------	--------------------

HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
ENVIRONMENTAL CONSULTANTS
620 Apollo Road
Scott, LA 70583
(337) 261-1963

Brent T. Pooler

From: Scott C. Sinclair <ssinclair@sinclair-law.com>
Sent: Monday, June 19, 2023 12:56 PM
To: Stewart L. Stover; Wade A. Pigott; Brent T. Pooler
Cc: Craig Isenberg; Taylor L. Gamm
Subject: FW: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

Guys:

Here is a comment from DNR on boring locations for 240035. I have not pulled the maps out to determine what adjustment should be made. Will you review and advise?

Thanks.

SCS

From: Claudia Rush (DNR) <Claudia.Rush4@la.gov>
Sent: Monday, June 19, 2023 12:42 PM
To: Scott C. Sinclair <ssinclair@sinclair-law.com>; 'Gladstone Jones' <GJones@jonesswanson.com>; Jonathan Rice <Jonathan.Rice@la.gov>
Cc: 'Kevin Huddell' <KHuddell@jonesswanson.com>; 'Edwin Hightower' <ehightower@adminlaw.la.gov>; Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@LA.GOV>; 'Bernard Boudreaux' <BBoudreaux@jonesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; 'OAL Processing' <OALProcessing@adminlaw.la.gov>; 'Cheryl Berner' <CBerner@jonesswanson.com>; 'Taylor Townsend' <taylor@taylortownsendlaw.com>; 'Craig Isenberg' <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; 'Alan Ezkovich' <alan.ezkovich@ezkovichlaw.com>; 'Lynn Swanson' <LSwanson@jonesswanson.com>; john.king@bswllp.com; 'Taylor L. Gamm' <tgamm@barrassousdin.com>; dluder@barrassousdin.com; 'Jude C. Bursavich' <jude.bursavich@bswllp.com>; 'Michael Arata' <MArata@jonesswanson.com>; 'John Arnold' <JArnold@jonesswanson.com>; 'Alayne Gobeille' <agobeille@jonesswanson.com>; 'Tom Dixon' <tdixon@jonesswanson.com>; 'Rosa Acheson' <RAcheson@jonesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>
Subject: RE: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

Good Morning Mr. Sinclair,

Our technical people have looked over your most recent sampling plan and have so far found it acceptable, except for well 240035. Their comments with regards to 240035 is that “***There should be a sample to delineate SB-1/1R to the SW. The sample at SB-2 would be sufficient for delineation of SB-1/1R in the SE.***” If you have any more questions, please feel free to contact Jonathan or me.



Claudia I Rush
Attorney
Office of Conservation

Department of Natural Resources
Post Office Box 94275
LaSalle Building
617 North Third Street
Baton Rouge, LA 70804
Phone: 225-342-5510
Email: claudia.rush4@la.gov

This e-mail (including any attachments) is covered by the Electronic Communications Privacy Act, U.S.C. Sections 2510-2521, is confidential, and is legally privileged. This message and its attachments may also be privileged and attorney work product. They are intended for the individual or entity named above. If you are not the intended recipient, please do not read, copy, use or disclose this communication to others. You are hereby noticed that any dissemination, distribution or copy of this communication is strictly prohibited. If you have received this communication in error, please notify me immediately by responsive e-mail.

From: Scott C. Sinclair <ssinclair@sinclair-law.com>

Sent: Friday, June 16, 2023 9:29 AM

To: Claudia Rush (DNR) <Claudia.Rush4@la.gov>; Gladstone Jones' <GJones@joneswanson.com>; Jonathan Rice <Jonathan.Rice@la.gov>

Cc: 'Kevin Huddell' <KHuddell@joneswanson.com>; 'Edwin Hightower' <ehightower@adminlaw.la.gov>; Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@LA.GOV>; 'Bernard Boudreaux' <BBoudreaux@joneswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; 'OAL Processing' <OALProcessing@adminlaw.la.gov>; 'Cheryl Berner' <CBerner@joneswanson.com>; 'Taylor Townsend' <taylor@taylortownsendlaw.com>; 'Craig Isenberg' <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; 'Alan Ezkovich' <alan.ezkovich@ezkovichlaw.com>; 'Lynn Swanson' <LSwanson@joneswanson.com>; john.king@bswllp.com; 'Taylor L. Gamm' <tgamm@barrassousdin.com>; dluder@barrassousdin.com; 'Jude C. Bursavich' <jude.bursavich@bswllp.com>; 'Michael Arata' <MArata@joneswanson.com>; 'John Arnold' <JArnold@joneswanson.com>; 'Alayne Gobeille' <agobeille@joneswanson.com>; 'Tom Dixon' <tdixon@joneswanson.com>; 'Rosa Acheson' <RAcheson@joneswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>

Subject: RE: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

EXTERNAL EMAIL: Please do not click on links or attachments unless you know the content is safe.

Good morning, Jonathan and Claudia:

I am following up on this to see if the technical team has any comments or questions regarding our planned sampling, which will start on Monday.

Let us know. Thanks.

Scott C. Sinclair

Sinclair Law Firm
PO Box 1026
Shreveport, LA 71163-1026
(318) 562-3700
ssinclair@sinclair-law.com

From: Scott C. Sinclair <ssinclair@sinclair-law.com>
Sent: Wednesday, June 14, 2023 1:53 PM
To: 'Claudia Rush (DNR)' <Claudia.Rush4@la.gov>; 'Gladstone Jones' <GJones@jonesswanson.com>; 'Jonathan Rice' <Jonathan.Rice@la.gov>
Cc: 'Kevin Huddell' <KHuddell@jonesswanson.com>; 'Edwin Hightower' <ehightower@adminlaw.la.gov>; 'Jamie Love (DNR)' <Jamie.Love@la.gov>; 'Houston Holley' <Houston.Holley@LA.GOV>; 'Bernard Boudreaux' <BBoudreaux@jonesswanson.com>; 'Gavin Broussard' <Gavin.Broussard@la.gov>; 'OAL Processing' <OALProcessing@adminlaw.la.gov>; 'Cheryl Berner' <CBerner@jonesswanson.com>; 'Taylor Townsend' <taylor@taylortownsendlaw.com>; 'Craig Isenberg' <cisenberg@barrassousdin.com>; 'swebre@barrassousdin.com' <swebre@barrassousdin.com>; 'Alan Ezkovich' <alan.ezkovich@ezkovichlaw.com>; 'Lynn Swanson' <LSwanson@jonesswanson.com>; 'john.king@bswllp.com' <john.king@bswllp.com>; 'Taylor L. Gamm' <tgamm@barrassousdin.com>; 'dluder@barrassousdin.com' <dluder@barrassousdin.com>; 'Jude C. Bursavich' <jude.bursavich@bswllp.com>; 'Michael Arata' <MArata@jonesswanson.com>; 'John Arnold' <JArnold@jonesswanson.com>; 'Alayne Gobeille' <agobeille@jonesswanson.com>; 'Tom Dixon' <tdixon@jonesswanson.com>; 'Rosa Acheson' <RAcheson@jonesswanson.com>; 'Monique Edwards (DNR)' <Monique.Edwards@la.gov>
Subject: RE: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

Jonathan and Claudia:

Thank you for the clarification that the only constituent for delineation is total Barium. That is how we understood the previous communications, but we appreciate you clarifying it.

Indigo Minerals reserves all substantive and procedural rights with respect to this entire matter. Nevertheless, as we have said previously, we will work cooperatively with the Commission to obtain additional information and we are committed to working with your office to obtain that information in a timely fashion so that the panel can timely formulate a final plan and so that Indigo's substantive and procedural rights to present that plan to the jury are preserved.

Regarding the Barium delineation, attached are maps showing the proposed sampling locations. Please share this information with the technical team and let us know if they have any comments or questions. Our plan is to begin this work on Monday, June 19. We also plan to request the lab to provide the Barium results on an expedited basis.

We look forward to hearing from you.

Scott C. Sinclair

Sinclair Law Firm
PO Box 1026
Shreveport, LA 71163-1026
(318) 562-3700
ssinclair@sinclair-law.com

From: Claudia Rush (DNR) <Claudia.Rush4@la.gov>

Sent: Monday, June 12, 2023 5:02 PM

To: Gladstone Jones <GJones@jonesswanson.com>; Jonathan Rice <Jonathan.Rice@la.gov>

Cc: Scott C. Sinclair <ssinclair@sinclair-law.com>; Kevin Huddell <KHuddell@jonesswanson.com>; Edwin Hightower <ehightower@adminlaw.la.gov>; Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@LA.GOV>; Bernard Boudreaux <BBoudreaux@jonesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; OAL Processing <OALProcessing@adminlaw.la.gov>; Cheryl Berner <CBerner@jonesswanson.com>; Taylor Townsend <taylor@taylortownsendlaw.com>; Craig Isenberg <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; Alan Ezkovich <alan.ezkovich@ezkovichlaw.com>; Lynn Swanson <LSwanson@jonesswanson.com>; john.king@bswllp.com; Taylor L. Gamm <tgamm@barrassousdin.com>; dluder@barrassousdin.com; Jude C. Bursavich <jude.bursavich@bswllp.com>; Michael Arata <MArata@jonesswanson.com>; John Arnold <JArnold@jonesswanson.com>; Alayne Gobeille <agobeille@jonesswanson.com>; Tom Dixon <tdixon@jonesswanson.com>; Rosa Acheson <RAcheson@jonesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>

Subject: RE: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

Good afternoon Mr. Jones,

After reviewing your email, we would like to clarify a certain point. The June 6th email, which was sent to both parties, is a clarification of the June 2nd email. As part of our review we need a delineation of the onsite **total Barium** only. Our technical team has not requested nor needs a delineation of any other constituents.

Sincerely,
Claudia Rush



Claudia I Rush

Attorney
Office of Conservation

Department of Natural Resources

Post Office Box 94275
LaSalle Building
617 North Third Street
Baton Rouge, LA 70804
Phone: 225-342-5510
Email: claudia.rush4@la.gov

This e-mail (including any attachments) is covered by the Electronic Communications Privacy Act, U.S.C. Sections 2510-2521, is confidential, and is legally privileged. This message and its attachments may also be privileged and attorney work product. They are intended for the individual or entity named above. If you are not the intended recipient, please do not read, copy, use or disclose this communication to others. You are hereby noticed that any dissemination, distribution or copy of this

communication is strictly prohibited. If you have received this communication in error, please notify me immediately by responsive e-mail.

From: Gladstone Jones <GJones@jonesswanson.com>

Sent: Monday, June 12, 2023 11:48 AM

To: Jonathan Rice <Jonathan.Rice@la.gov>

Cc: Scott C. Sinclair <ssinclair@sinclair-law.com>; Kevin Huddell <KHuddell@jonesswanson.com>; Edwin Hightower <ehightower@adminlaw.la.gov>; Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@LA.GOV>; Claudia Rush (DNR) <Claudia.Rush4@la.gov>; Bernard Boudreaux <BBoudreaux@jonesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; OAL Processing <OALProcessing@adminlaw.la.gov>; Cheryl Berner <CBerner@jonesswanson.com>; Taylor Townsend <taylor@taylortownsendlaw.com>; Craig Isenberg <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; Alan Ezkovich <alan.ezkovich@ezkovichlaw.com>; Lynn Swanson <LSwanson@jonesswanson.com>; john.king@bswllp.com; Taylor L. Gamm <tgamm@barrassousdin.com>; dluder@barrassousdin.com; Jude C. Bursavich <jude.bursavich@bswllp.com>; Michael Arata <MArata@jonesswanson.com>; John Arnold <JArnold@jonesswanson.com>; Alayne Gobeille <agobeille@jonesswanson.com>; Tom Dixon <tdixon@jonesswanson.com>; Rosa Acheson <RAcheson@jonesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>

Subject: Re: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

EXTERNAL EMAIL: Please do not click on links or attachments unless you know the content is safe.

Scott,

To be clear, we need to discuss whether Indigo would be conducting sampling as requested by DNR and the sampling I was referring to was that set forth in the June 2nd correspondence and the June 6th email from Mr Rice. You only mentioned the June 2nd letter but in order for us to plan for our client we we need confirmation Indigo will be following the direction of the DNR as set forth in the latter June 6th email from Mr Rice. So we are all on the same page I have copied that here:

1. A picture of the well and affidavit by both parties confirming that the picture is an accurate representation that that there is not well present.
2. Provide cross sections, including all available data (rig supply wells and EB borings).
3. Hypothetical plan must include the following missing information: a text description of the plan and what methodology would be performed for each well.
4. SN 239274: Provide samples for locations to the north, east and west of SB-2.

5. SN 239592: Provide a delineation to the east and north and SPLP for SB-2/2R (8-10) at the depth of 8-10 ft. bgs.
6. SN 240035: Provide delineation from east, south, and west for sample SB1/1R at the depth of 8-10 ft bgs. Provide delineation samples for north, east, and west of this location for SB-3 at the depth of 0-2 ft bgs. MW-1 at 8-12 ft bgs should be sampled above and below for delineation. Horizontally it should be delineated at the highest exceedance for barium.
7. SN 240037: More samples needed for these areas: SB-1/1R at the depth of 0-2 ft bgs should be horizontally delineated. SB-2/2R at the depth of 8-10 ft bgs should be sampled above and below for barium.
8. Please provide all data in the tables in the same units as required by – RECAP Section 2.5 & LAC 43:XIX.611.F.
9. It is noted that Indigo's June 6th letter provides the intended future use of the property.
10. According to RECAP Section 2.4 and LAC 43:XIX.611.F, 1 matrix spike/matrix spike duplicate from the site per 20 field samples shall be provided.

Please confirm.

Also, Indigo and the Gamble family should be clear with DNR that the intended use of this property is clearly provided for in the lease between Indigo and Gamble LLC which specifically states that this property is a rural residence, tree farm and management area. I look forward to chatting at 3pm. Best, Glad

Sent from my iPhone

On Jun 12, 2023, at 11:35 AM, Jonathan Rice <Jonathan.Rice@la.gov> wrote:

Conservation will be available at 3 p.m. today.

Best regards,

F. Jonathan Rice, Attorney
LDNR / Office of Conservation
Phone: (225) 342-9660

Fax: (225) 342-3705
Jonathan.rice@la.gov

From: Scott C. Sinclair <ssinclair@sinclair-law.com>
Sent: Monday, June 12, 2023 11:26 AM
To: 'Gladstone Jones' <GJones@jonesswanson.com>
Cc: Jonathan Rice <Jonathan.Rice@la.gov>; 'Kevin Huddell' <KHuddell@jonesswanson.com>; 'Edwin Hightower' <ehightower@adminlaw.la.gov>; Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@LA.GOV>; Claudia Rush (DNR) <Claudia.Rush4@la.gov>; 'Bernard Boudreaux' <BBoudreaux@jonesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; 'OAL Processing' <OALProcessing@adminlaw.la.gov>; 'Cheryl Berner' <CBerner@jonesswanson.com>; 'Taylor Townsend' <taylor@taylortownsendlaw.com>; 'Craig Isenberg' <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; 'Alan Ezkovich' <alan.ezkovich@ezkovichlaw.com>; 'Lynn Swanson' <LSwanson@jonesswanson.com>; john.king@bswllp.com; 'Taylor L. Gamm' <tgamm@barrassousdin.com>; dluder@barrassousdin.com; 'Jude C. Bursavich' <jude.bursavich@bswllp.com>; 'Michael Arata' <MArata@jonesswanson.com>; 'John Arnold' <JArnold@jonesswanson.com>; 'Alayne Gobeille' <agobeille@jonesswanson.com>; 'Tom Dixon' <tdixon@jonesswanson.com>; 'Rosa Acheson' <RAcheson@jonesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>
Subject: RE: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

EXTERNAL EMAIL: Please do not click on links or attachments unless you know the content is safe.

Glad:

In response to your question, Indigo's current intention is to collect the additional samples at the locations and for the parameters specified in the Commissioner's June 2 letter. Craig and I are available for a call with you and your team at 3:00 this afternoon. Let us know if that time is good for you, and we will send a calendar invite.

Thanks.

Scott C. Sinclair

Sinclair Law Firm
PO Box 1026
Shreveport, LA 71163-1026
(318) 562-3700
ssinclair@sinclair-law.com

From: Gladstone Jones <GJones@jonesswanson.com>
Sent: Monday, June 12, 2023 11:04 AM
To: Scott C. Sinclair <ssinclair@sinclair-law.com>
Cc: Jonathan Rice <Jonathan.Rice@la.gov>; Kevin Huddell <KHuddell@jonesswanson.com>; Edwin Hightower <ehightower@adminlaw.la.gov>; Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@la.gov>; Claudia Rush (DNR) <Claudia.Rush4@la.gov>; Bernard Boudreaux <BBoudreaux@jonesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; OAL Processing

<OALProcessing@adminlaw.la.gov>; Cheryl Berner <CBerner@jonesswanson.com>; Taylor Townsend <taylor@taylortownsendlaw.com>; Craig Isenberg <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; Alan Ezkovich <alan.ezkovich@ezkovichlaw.com>; Lynn Swanson <LSwanson@jonesswanson.com>; john.king@bswllp.com; Taylor L. Gamm <tgamm@barrassousdin.com>; dluder@barrassousdin.com; Jude C. Bursavich <jude.bursavich@bswllp.com>; Michael Arata <MArata@jonesswanson.com>; John Arnold <JArnold@jonesswanson.com>; Alayne Gobeille <agobeille@jonesswanson.com>; Tom Dixon <tdixon@jonesswanson.com>; Rosa Acheson <RAcheson@jonesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>

Subject: Re: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

Jonathan,

Thank you to all. We will be reaching out to discuss scheduling with counsel for Indigo. We of course will want time to respond to any modified plan submitted by Indigo. A question that we need answered is whether Indigo will be sampling the pit areas as set forth in the June 6th correspondence? That may very well impact the time we will need to respond and whether we can do that inside the 30 days contemplated for a response by the landowner. Scott - please let us know the answer to this question and then we can arrange a call. We are available today or tomorrow. Thank you. Glad.

Sent from my iPhone

On Jun 12, 2023, at 10:59 AM, Scott C. Sinclair <ssinclair@sinclair-law.com> wrote:

Thank you, Mr. Rice.

Kevin, can you advise whether Gamble LLC has any objection to resetting the limited admission hearing for July 18-20? Those dates work for DNR and for Indigo.

Thanks.

Scott C. Sinclair

Sinclair Law Firm
PO Box 1026
Shreveport, LA 71163-1026
(318) 562-3700
ssinclair@sinclair-law.com

From: Jonathan Rice <Jonathan.Rice@la.gov>

Sent: Monday, June 12, 2023 10:55 AM

To: Scott C. Sinclair <ssinclair@sinclair-law.com>; 'Kevin Huddell'

<KHuddell@jonesswanson.com>; 'Edwin Hightower' <ehightower@adminlaw.la.gov>

Cc: Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley

<Houston.Holley@LA.GOV>; Claudia Rush (DNR) <Claudia.Rush4@la.gov>; 'Bernard Boudreaux' <BBoudreaux@jonesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; 'OAL Processing' <OALProcessing@adminlaw.la.gov>; 'Cheryl Berner' <CBerner@jonesswanson.com>; 'Gladstone Jones' <GJones@jonesswanson.com>; 'Taylor Townsend' <taylor@taylortownsendlaw.com>; 'Craig Isenberg' <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; 'Alan Ezkovich' <Alan.Ezkovich@ezkovichlaw.com>; 'Lynn Swanson' <LSwanson@jonesswanson.com>; john.king@bswllp.com; 'Taylor L. Gamm' <tgamm@barrassousdin.com>; dluder@barrassousdin.com; 'Jude C. Bursavich' <jude.bursavich@bswllp.com>; 'Michael Arata' <MArata@jonesswanson.com>; 'John Arnold' <JArnold@jonesswanson.com>; 'Alayne Gobeille' <agobeille@jonesswanson.com>; 'Tom Dixon' <tdixon@jonesswanson.com>; 'Rosa Acheson' <RAcheson@jonesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>

Subject: RE: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

Mr. Sinclair:

The July 18-20 dates are good with Conservation. Have you received a response from Mr. Huddell regarding the landowner's thoughts?

Best regards,

F. Jonathan Rice, Attorney
LDNR / Office of Conservation
Phone: (225) 342-9660
Fax: (225) 342-3705
Jonathan.rice@la.gov

From: Scott C. Sinclair <ssinclair@sinclair-law.com>

Sent: Friday, June 9, 2023 3:40 PM

To: Jonathan Rice <Jonathan.Rice@la.gov>; 'Kevin Huddell' <KHuddell@jonesswanson.com>; 'Edwin Hightower' <ehightower@adminlaw.la.gov>

Cc: Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@LA.GOV>; Claudia Rush (DNR) <Claudia.Rush4@la.gov>; 'Bernard Boudreaux' <BBoudreaux@jonesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; 'OAL Processing' <OALProcessing@adminlaw.la.gov>; 'Cheryl Berner' <CBerner@jonesswanson.com>; 'Gladstone Jones' <GJones@jonesswanson.com>; 'Taylor Townsend' <taylor@taylortownsendlaw.com>; 'Craig Isenberg' <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; 'Alan Ezkovich' <Alan.Ezkovich@ezkovichlaw.com>; 'Lynn Swanson' <LSwanson@jonesswanson.com>; john.king@bswllp.com; 'Taylor L. Gamm' <tgamm@barrassousdin.com>; dluder@barrassousdin.com; 'Jude C. Bursavich' <jude.bursavich@bswllp.com>; 'Michael Arata' <MArata@jonesswanson.com>; 'John Arnold' <JArnold@jonesswanson.com>; 'Alayne Gobeille' <agobeille@jonesswanson.com>; 'Tom Dixon' <tdixon@jonesswanson.com>; 'Rosa Acheson' <RAcheson@jonesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>

Subject: RE: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

EXTERNAL EMAIL: Please do not click on links or attachments unless you know the content is safe.

Mr. Rice:

As you know, Indigo Minerals firmly believes the proposed plan that it submitted is compliant with the requirements of Statewide Order 29B. You also know that, consistent with its position, Indigo Minerals has filed a motion in the underlying civil proceeding seeking an order compelling the Department to proceed with the limited admission hearing. Indigo Minerals reserves all rights with respect to these matters.

Nevertheless, we appreciate the expression in your email of a willingness to reset the hearing on an expedited basis with the understanding that DNR will be able to render a final plan in sufficient time prior to our trial set on October 23, 2023. By July 7, we can provide additional information and can further respond to the Commissioner's June 2 letter and your email below. That would allow us to reset the hearing for July 18 – 20. In turn, that would allow the Department to issue its most feasible plan no later than September 18.

Please confirm that July 18-20 are good dates for the panel.

To facilitate these schedule changes, we will submit for your review a joint motion to DAL to reset the limited admission hearing for July 18 and a joint motion to the DeSoto Parish court for additional time pursuant to R.S. 30:29.

Thank you.

Scott C. Sinclair

Sinclair Law Firm
PO Box 1026
Shreveport, LA 71163-1026
(318) 562-3700
ssinclair@sinclair-law.com

From: Jonathan Rice <Jonathan.Rice@la.gov>
Sent: Tuesday, June 6, 2023 5:23 PM
To: Scott C. Sinclair <ssinclair@sinclair-law.com>; 'Kevin Huddell' <KHuddell@jonesswanson.com>; 'Edwin Hightower' <ehightower@adminlaw.la.gov>
Cc: Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@LA.GOV>; Claudia Rush (DNR) <Claudia.Rush4@la.gov>; 'Bernard Boudreaux' <BBoudreaux@jonesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; 'OAL Processing' <OALProcessing@adminlaw.la.gov>; 'Cheryl Berner' <CBerner@jonesswanson.com>; 'Gladstone Jones' <GJones@jonesswanson.com>; 'Taylor Townsend' <taylor@taylortownsendlaw.com>; 'Craig Isenberg' <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; 'Alan Ezkovich' <Alan.Ezkovich@ezkovichlaw.com>; 'Lynn Swanson' <LSwanson@jonesswanson.com>; john.king@bswllp.com; 'Taylor L. Gamm'

<tgamm@barrassousdin.com>; dluder@barrassousdin.com; 'Jude C. Bursavich' <jude.bursavich@bswllp.com>; 'Michael Arata' <MArata@jonesswanson.com>; 'John Arnold' <JArnold@jonesswanson.com>; 'Alayne Gobeille' <agobeille@jonesswanson.com>; 'Tom Dixon' <tdixon@jonesswanson.com>; 'Rosa Acheson' <RAcheson@jonesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>; Jonathan Rice <Jonathan.Rice@la.gov>
Subject: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

Mr. Sinclair:

The Division of Administrative Law has continued this matter in light of the Office of Conservations June 2nd letter sent to your office. We are again requesting that Indigo move for a continuance (on behalf of the DNR/OC) by tomorrow, June 7, 2023, so a Statewide Order 29B compliant plan can be submitted to this Office for review.

Again, please see the reasons set forth in Conservation's June 2nd letter; and furthermore, please see the reasons and responses (to your June 6th letter to the Commissioner) set forth below.

1. A picture of the well and affidavit by both parties confirming that the picture is an accurate representation that that there is not well present.
2. Provide cross sections, including all available data (rig supply wells and EB borings).
3. Hypothetical plan must include the following missing information: a text description of the plan and what methodology would be performed for each well.
4. SN 239274: Provide samples for locations to the north, east and west of SB-2.
5. SN 239592: Provide a delineation to the east and north and SPLP for SB-2/2R (8-10) at the depth of 8-10 ft. bgs.
6. SN 240035: Provide delineation from east, south, and west for sample SB1/1R at the depth of 8-10 ft bgs. Provide delineation samples for north, east, and west of this location for SB-3 at the depth of 0-2 ft bgs. MW-1 at 8-12 ft bgs should be sampled above and below for delineation. Horizontally it should be delineated at the highest exceedance for barium.
7. SN 240037: More samples needed for these areas: SB-1/1R at the depth of 0-2 ft bgs should be horizontally delineated. SB-2/2R at the depth of 8-10 ft bgs should be sampled above and below for barium.
8. Please provide all data in the tables in the same units as required by – RECAP Section 2.5 & LAC 43:XIX.611.F.
9. It is noted that Indigo's June 6th letter provides the intended future use of the property.
10. According to RECAP Section 2.4 and LAC 43:XIX.611.F, 1 matrix spike/matrix spike duplicate from the site per 20 field samples shall be provided.

The sooner your client provides the necessary requested information for a compliant plan, the sooner Conservation can reset the Administrative Hearing to provide sufficient time prior to your trial set in October 23, 2023. Please notify Conservation if Indigo does not intend to file a Continuance on DNR//OC's behalf. Thank you for your time and attention to this matter.

Best regards,

F. Jonathan Rice, Attorney
LDNR / Office of Conservation
Executive Division
P.O. Box 94275
Baton Rouge, LA 70804-9275
Phone: (225) 342-9660
Fax: (225) 342-3705
Jonathan.rice@la.gov

CONFIDENTIALITY NOTICE

This email communication may contain confidential information which also may be legally privileged and is intended only for the use of the intended recipients identified above. If you are not the intended recipient of this communication, you are hereby notified that any unauthorized review, use, dissemination, distribution, downloading, or copying of this communication is strictly prohibited. If you are not the intended recipient and have received this communication in error, please immediately notify us by reply email, delete the communication and destroy all copies.

COMPUTER SYSTEM USE/CONSENT NOTICE

This message was sent from a computer system which is the property of the State of Louisiana and the Department of Natural Resources (DNR). It is for authorized business use only. Users (authorized or unauthorized) have no explicit or implicit expectation of privacy. Any or all uses of this system and all files on this system may be intercepted, monitored, recorded, copied, audited, inspected, and disclosed to Department of Natural Resources and law enforcement personnel. By using this system the user consents to such interception, monitoring, recording, copying, auditing, inspection, and disclosure at the discretion of DNR.

CONFIDENTIALITY NOTICE

This email communication may contain confidential information which also may be legally privileged and is intended only for the use of the intended recipients identified above. If you are not the intended recipient of this communication, you are hereby notified that any unauthorized review, use, dissemination, distribution, downloading, or copying of this communication is strictly prohibited. If you are not the intended recipient and have received this communication in error, please immediately notify us by reply email, delete the communication and destroy all copies.

COMPUTER SYSTEM USE/CONSENT NOTICE

This message was sent from a computer system which is the property of the State of Louisiana and the Department of Natural Resources (DNR). It is for authorized business use only. Users (authorized or unauthorized) have no explicit or implicit expectation of privacy. Any or all uses of this system and all files on this system may be intercepted, monitored, recorded, copied, audited, inspected, and disclosed to Department of Natural Resources and law enforcement personnel. By using this system the user consents to such interception, monitoring, recording, copying, auditing, inspection, and disclosure at the discretion of DNR.

"This email originated outside the organization. Do not click any links or attachments unless you have confirmed the legitimacy of the message."

CONFIDENTIALITY NOTICE

This email communication may contain confidential information which also may be legally privileged and is intended only for the use of the intended recipients identified above. If you are not the intended recipient of this communication, you are hereby notified that any unauthorized review, use, dissemination, distribution, downloading, or copying of this communication is strictly prohibited. If you are not the intended recipient and have received this communication in error, please immediately notify us by reply email, delete the communication and destroy all copies.

COMPUTER SYSTEM USE/CONSENT NOTICE

This message was sent from a computer system which is the property of the State of Louisiana and the Department of Natural Resources (DNR). It is for authorized business use only. Users (authorized or unauthorized) have no explicit or implicit expectation of privacy. Any or all uses of this system and all files on this system may be intercepted, monitored, recorded, copied, audited, inspected, and disclosed to Department of Natural Resources and law enforcement personnel. By using this system the user consents to such interception, monitoring, recording, copying, auditing, inspection, and disclosure at the discretion of DNR.

"This email originated outside the organization. Do not click any links or attachments unless you have confirmed the legitimacy of the message."

CONFIDENTIALITY NOTICE

This email communication may contain confidential information which also may be legally privileged and is intended only for the use of the intended recipients identified above. If you are not the intended recipient of this communication, you are hereby notified that any unauthorized review, use, dissemination, distribution, downloading, or copying of this communication is strictly prohibited. If you are not the intended recipient and have received this communication in error, please immediately notify us by reply email, delete the communication and destroy all copies.

COMPUTER SYSTEM USE/CONSENT NOTICE

This message was sent from a computer system which is the property of the State of Louisiana and the Department of Natural Resources (DNR). It is for authorized business use only. Users (authorized or unauthorized) have no explicit or implicit expectation of privacy. Any or all uses of this system and all files on this system may be intercepted, monitored, recorded, copied, audited, inspected, and disclosed to Department of Natural Resources and law enforcement personnel. By using this system the user consents to such interception, monitoring, recording, copying, auditing, inspection, and disclosure at the discretion of DNR.

CONFIDENTIALITY NOTICE

This email communication may contain confidential information which also may be legally privileged and is intended only for the use of the intended recipients identified above. If you are not the intended recipient of this communication, you are hereby notified that any unauthorized review, use, dissemination, distribution, downloading, or copying of this communication is strictly prohibited. If you are not the intended recipient and have received this communication in error, please immediately notify us by reply email, delete the communication and destroy all copies.

COMPUTER SYSTEM USE/CONSENT NOTICE

This message was sent from a computer system which is the property of the State of Louisiana and the Department of Natural Resources (DNR). It is for authorized business use only. Users (authorized or unauthorized) have no explicit or implicit expectation of privacy. Any or all uses of this system and all files on this system may be intercepted, monitored, recorded, copied, audited, inspected, and disclosed to Department of Natural Resources and law enforcement personnel. By using this system the user consents to such interception, monitoring, recording, copying, auditing, inspection, and disclosure at the discretion of DNR.

Brent T. Pooler

From: Scott C. Sinclair <ssinclair@sinclair-law.com>
Sent: Monday, June 19, 2023 4:09 PM
To: Stewart L. Stover; Wade A. Pigott; Brent T. Pooler
Cc: Craig Isenberg; Taylor L. Gamm
Subject: FW: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

FYI. I think this is good. But I read it fast.

Wade, Brent, what is your reaction?

SCS

From: Claudia Rush (DNR) <Claudia.Rush4@la.gov>
Sent: Monday, June 19, 2023 4:05 PM
To: Scott C. Sinclair <ssinclair@sinclair-law.com>; Jonathan Rice <Jonathan.Rice@la.gov>
Cc: Gavin Broussard <Gavin.Broussard@la.gov>; Jamie Love (DNR) <Jamie.Love@la.gov>
Subject: RE: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

Hi Mr. Sinclair,

With regards to the question you posed our technical team on Friday,

“ According to RECAP Section 2.4 and LAC 43:XIX.611.F, 1 matrix spike/matrix spike duplicate from the site per 20 field samples shall be provided.

Samples collected during HET’s involvement in the investigation of the Gamble property were subject to appropriate quality control requirements, including sufficient MS/MSD sample results to meet the requirements per RECAP. Each sample was split in the field and sent to a minimum of two (2) separate laboratories each by Approach and HET. For completeness purposes, the entire data set of laboratory reports associated with samples collected by HET in the field has been uploaded to the following link, which also segregates the MS/MSD analyses in each report. All of the information included in the link was also included with the proposed plan.

OneDrive link to [Gamble Labs](#)

Again, we believe that the MS/MSD information included with the proposed plan documentation is sufficient.

If DNR determines that it wants additional MS/MSD information, please provide specific advice as to what is being requested. Should additional MS/MSD samples be requested, HET can do so during the upcoming sampling event scheduled to begin on June 19, 2023. “

The following is their response:

MS/MSD should be taken on field samples. The lab runs their own, as part of their own QA/QC process, this is not the same as field sample run MS/MSD. Noting that there are split samples from 2 different labs, for most of the same parameters, our office can justify the absence of field MS/MSD samples at this time.

Please let us know if you have any further questions.



Claudia I Rush
Attorney
Office of Conservation

Department of Natural Resources
Post Office Box 94275
LaSalle Building
617 North Third Street
Baton Rouge, LA 70804
Phone: 225-342-5510
Email: claudia.rush4@la.gov

This e-mail (including any attachments) is covered by the Electronic Communications Privacy Act, U.S.C. Sections 2510-2521, is confidential, and is legally privileged. This message and its attachments may also be privileged and attorney work product. They are intended for the individual or entity named above. If you are not the intended recipient, please do not read, copy, use or disclose this communication to others. You are hereby notified that any dissemination, distribution or copy of this communication is strictly prohibited. If you have received this communication in error, please notify me immediately by responsive e-mail.

From: Scott C. Sinclair <ssinclair@sinclair-law.com>

Sent: Friday, June 16, 2023 5:01 PM

To: Jonathan Rice <Jonathan.Rice@la.gov>; Claudia Rush (DNR) <Claudia.Rush4@la.gov>

Subject: RE: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

EXTERNAL EMAIL: Please do not click on links or attachments unless you know the content is safe.

Jonathan and Claudia:

Please see the attached with respect to item 10 below. Will you forward this to the technical team and let us know if they have a response?

Thank you.

Scott C. Sinclair

Sinclair Law Firm
PO Box 1026
Shreveport, LA 71163-1026
(318) 562-3700

From: Jonathan Rice <Jonathan.Rice@la.gov>

Sent: Tuesday, June 6, 2023 5:23 PM

To: Scott C. Sinclair <ssinclair@sinclair-law.com>; 'Kevin Huddell' <KHuddell@jonesswanson.com>; 'Edwin Hightower' <ehightower@adminlaw.la.gov>

Cc: Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@LA.GOV>; Claudia Rush (DNR) <Claudia.Rush4@la.gov>; 'Bernard Boudreaux' <BBoudreaux@jonesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; 'OAL Processing' <OALProcessing@adminlaw.la.gov>; 'Cheryl Berner' <CBerner@jonesswanson.com>; 'Gladstone Jones' <GJones@jonesswanson.com>; 'Taylor Townsend' <taylor@taylortownsendlaw.com>; 'Craig Isenberg' <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; 'Alan Ezkovich' <Alan.Ezkovich@ezkovichlaw.com>; 'Lynn Swanson' <LSwanson@jonesswanson.com>; john.king@bswllp.com; 'Taylor L. Gamm' <tgamm@barrassousdin.com>; dluder@barrassousdin.com; 'Jude C. Bursavich' <jude.bursavich@bswllp.com>; 'Michael Arata' <MArata@jonesswanson.com>; 'John Arnold' <JArnold@jonesswanson.com>; 'Alayne Gobeille' <agobeille@jonesswanson.com>; 'Tom Dixon' <tdixon@jonesswanson.com>; 'Rosa Acheson' <RAcheson@jonesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>; Jonathan Rice <Jonathan.Rice@la.gov>

Subject: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

Mr. Sinclair:

The Division of Administrative Law has continued this matter in light of the Office of Conservations June 2nd letter sent to your office. We are again requesting that Indigo move for a continuance (on behalf of the DNR/OC) by tomorrow, June 7, 2023, so a Statewide Order 29B compliant plan can be submitted to this Office for review.

Again, please see the reasons set forth in Conservation's June 2nd letter; and furthermore, please see the reasons and responses (to your June 6th letter to the Commissioner) set forth below.

1. A picture of the well and affidavit by both parties confirming that the picture is an accurate representation that that there is not well present.
2. Provide cross sections, including all available data (rig supply wells and EB borings).
3. Hypothetical plan must include the following missing information: a text description of the plan and what methodology would be performed for each well.
4. SN 239274: Provide samples for locations to the north, east and west of SB-2.
5. SN 239592: Provide a delineation to the east and north and SPLP for SB-2/2R (8-10) at the depth of 8-10 ft. bgs.
6. SN 240035: Provide delineation from east, south, and west for sample SB1/1R at the depth of 8-10 ft bgs. Provide delineation samples for north, east, and west of this location for SB-3 at the depth of 0-2 ft bgs. MW-1 at 8-12 ft bgs should be sampled above and below for delineation. Horizontally it should be delineated at the highest exceedance for barium.
7. SN 240037: More samples needed for these areas: SB-1/1R at the depth of 0-2 ft bgs should be horizontally delineated. SB-2/2R at the depth of 8-10 ft bgs should be sampled above and below for barium.
8. Please provide all data in the tables in the same units as required by – RECAP Section 2.5 & LAC 43:XIX.611.F.

9. It is noted that Indigo's June 6th letter provides the intended future use of the property.

10. According to RECAP Section 2.4 and LAC 43:XIX.611.F, 1 matrix spike/matrix spike duplicate from the site per 20 field samples shall be provided.

The sooner your client provides the necessary requested information for a compliant plan, the sooner Conservation can reset the Administrative Hearing to provide sufficient time prior to your trial set in October 23, 2023. Please notify Conservation if Indigo does not intend to file a Continuance on DNR//OC's behalf. Thank you for your time and attention to this matter.

Best regards,

F. Jonathan Rice, Attorney
LDNR / Office of Conservation
Executive Division
P.O. Box 94275
Baton Rouge, LA 70804-9275
Phone: (225) 342-9660
Fax: (225) 342-3705
Jonathan.rice@la.gov

CONFIDENTIALITY NOTICE

This email communication may contain confidential information which also may be legally privileged and is intended only for the use of the intended recipients identified above. If you are not the intended recipient of this communication, you are hereby notified that any unauthorized review, use, dissemination, distribution, downloading, or copying of this communication is strictly prohibited. If you are not the intended recipient and have received this communication in error, please immediately notify us by reply email, delete the communication and destroy all copies.

COMPUTER SYSTEM USE/CONSENT NOTICE

This message was sent from a computer system which is the property of the State of Louisiana and the Department of Natural Resources (DNR). It is for authorized business use only. Users (authorized or unauthorized) have no explicit or implicit expectation of privacy. Any or all uses of this system and all files on this system may be intercepted, monitored, recorded, copied, audited, inspected, and disclosed to Department of Natural Resources and law enforcement personnel. By using this system the user consents to such interception, monitoring, recording, copying, auditing, inspection, and disclosure at the discretion of DNR.

CONFIDENTIALITY NOTICE

This email communication may contain confidential information which also may be legally privileged and is intended only for the use of the intended recipients identified above. If you are not the intended recipient of this communication, you are hereby notified that any unauthorized review, use, dissemination, distribution, downloading, or copying of this communication is strictly prohibited. If you are not the intended recipient and have received this communication in error, please immediately notify us by reply email, delete the communication and destroy all copies.

COMPUTER SYSTEM USE/CONSENT NOTICE

This message was sent from a computer system which is the property of the State of Louisiana and the Department of Natural Resources (DNR). It is for authorized business use only. Users (authorized or unauthorized) have no explicit or implicit expectation of privacy. Any or all uses of this system and all files on this system may be intercepted, monitored, recorded, copied, audited, inspected, and disclosed to Department of Natural Resources and law enforcement personnel. By using this system the user consents to such interception, monitoring, recording, copying, auditing, inspection, and disclosure at the discretion of DNR.

Brent T. Pooler

From: Scott C. Sinclair <ssinclair@sinclair-law.com>
Sent: Monday, June 19, 2023 4:07 PM
To: Stewart L. Stover; Wade A. Pigott; Brent T. Pooler
Cc: Craig Isenberg; Taylor L. Gamm
Subject: FW: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

FYI.

SCS

From: Claudia Rush (DNR) <Claudia.Rush4@la.gov>
Sent: Monday, June 19, 2023 3:57 PM
To: Scott C. Sinclair <ssinclair@sinclair-law.com>; 'Gladstone Jones' <GJones@jonesswanson.com>; Jonathan Rice <Jonathan.Rice@la.gov>
Cc: 'Kevin Huddell' <KHuddell@jonesswanson.com>; 'Edwin Hightower' <ehightower@adminlaw.la.gov>; Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@LA.GOV>; 'Bernard Boudreaux' <BBoudreaux@jonesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; 'OAL Processing' <OALProcessing@adminlaw.la.gov>; 'Cheryl Berner' <CBerner@jonesswanson.com>; 'Taylor Townsend' <taylor@taylortownsendlaw.com>; 'Craig Isenberg' <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; 'Alan Ezkovich' <alan.ezkovich@ezkovichlaw.com>; 'Lynn Swanson' <LSwanson@jonesswanson.com>; john.king@bswllp.com; 'Taylor L. Gamm' <tgamma@barrassousdin.com>; dluder@barrassousdin.com; 'Jude C. Bursavich' <jude.bursavich@bswllp.com>; 'Michael Arata' <MArata@jonesswanson.com>; 'John Arnold' <JArnold@jonesswanson.com>; 'Alayne Gobeille' <agobeille@jonesswanson.com>; 'Tom Dixon' <tdixon@jonesswanson.com>; 'Rosa Acheson' <RAcheson@jonesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>
Subject: RE: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

Hi Mr. Sinclair,

The panel has no objection to the updated delineation map you just sent us.



Claudia I Rush
Attorney
Office of Conservation

Department of Natural Resources
Post Office Box 94275
LaSalle Building
617 North Third Street
Baton Rouge, LA 70804
Phone: 225-342-5510
Email: claudia.rush4@la.gov

This e-mail (including any attachments) is covered by the Electronic Communications Privacy Act, U.S.C. Sections 2510-2521, is confidential, and is legally privileged. This message and its attachments may also be privileged and attorney work product.

They are intended for the individual or entity named above. If you are not the intended recipient, please do not read, copy, use or disclose this communication to others. You are hereby noticed that any dissemination, distribution or copy of this communication is strictly prohibited. If you have received this communication in error, please notify me immediately by responsive e-mail.

From: Scott C. Sinclair <ssinclair@sinclair-law.com>

Sent: Monday, June 19, 2023 2:42 PM

To: Claudia Rush (DNR) <Claudia.Rush4@la.gov>; 'Gladstone Jones' <GJones@jonesswanson.com>; Jonathan Rice <Jonathan.Rice@la.gov>

Cc: 'Kevin Huddell' <KHuddell@jonesswanson.com>; 'Edwin Hightower' <ehightower@adminlaw.la.gov>; Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@LA.GOV>; 'Bernard Boudreaux' <BBoudreaux@jonesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; 'OAL Processing' <OALProcessing@adminlaw.la.gov>; 'Cheryl Berner' <CBerner@jonesswanson.com>; 'Taylor Townsend' <taylor@taylortownsendlaw.com>; 'Craig Isenberg' <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; 'Alan Ezkovich' <alan.ezkovich@ezkovichlaw.com>; 'Lynn Swanson' <LSwanson@jonesswanson.com>; john.king@bswllp.com; 'Taylor L. Gamm' <tgamm@barrassousdin.com>; dluder@barrassousdin.com; 'Jude C. Bursavich' <jude.bursavich@bswllp.com>; 'Michael Arata' <MArata@jonesswanson.com>; 'John Arnold' <JArnold@jonesswanson.com>; 'Alayne Gobeille' <agobeille@jonesswanson.com>; 'Tom Dixon' <tdixon@jonesswanson.com>; 'Rosa Acheson' <RAcheson@jonesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>

Subject: RE: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

EXTERNAL EMAIL: Please do not click on links or attachments unless you know the content is safe.

Claudia:

Here is the revised boring location map for 240035. The additional boring to the SW of SB-1 is labeled PB-4. Let us know if the technical team has any other comments.

Scott C. Sinclair

Sinclair Law Firm
PO Box 1026
Shreveport, LA 71163-1026
(318) 562-3700
ssinclair@sinclair-law.com

From: Claudia Rush (DNR) <Claudia.Rush4@la.gov>

Sent: Monday, June 19, 2023 12:42 PM

To: Scott C. Sinclair <ssinclair@sinclair-law.com>; 'Gladstone Jones' <GJones@jonesswanson.com>; Jonathan Rice <Jonathan.Rice@la.gov>

Cc: 'Kevin Huddell' <KHuddell@jonesswanson.com>; 'Edwin Hightower' <ehightower@adminlaw.la.gov>; Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@LA.GOV>; 'Bernard Boudreaux' <BBoudreaux@jonesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; 'OAL Processing'

<OALProcessing@adminlaw.la.gov>; 'Cheryl Berner' <CBerner@jonesswanson.com>; 'Taylor Townsend' <taylor@taylortownsendlaw.com>; 'Craig Isenberg' <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; 'Alan Ezkovich' <alan.ezkovich@ezkovichlaw.com>; 'Lynn Swanson' <LSwanson@jonesswanson.com>; john.king@bswllp.com; 'Taylor L. Gamm' <tgamm@barrassousdin.com>; dluder@barrassousdin.com; 'Jude C. Bursavich' <jude.bursavich@bswllp.com>; 'Michael Arata' <MArata@jonesswanson.com>; 'John Arnold' <JArnold@jonesswanson.com>; 'Alayne Gobeille' <agobeille@jonesswanson.com>; 'Tom Dixon' <tdixon@jonesswanson.com>; 'Rosa Acheson' <RAcheson@jonesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>

Subject: RE: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

Good Morning Mr. Sinclair,

Our technical people have looked over your most recent sampling plan and have so far found it acceptable, except for well 240035. Their comments with regards to 240035 is that “***There should be a sample to delineate SB-1/1R to the SW. The sample at SB-2 would be sufficient for delineation of SB-1/1R in the SE.***” If you have any more questions, please feel free to contact Jonathan or me.



Claudia I Rush
Attorney
Office of Conservation

Department of Natural Resources
Post Office Box 94275
LaSalle Building
617 North Third Street
Baton Rouge, LA 70804
Phone: 225-342-5510
Email: claudia.rush4@la.gov

This e-mail (including any attachments) is covered by the Electronic Communications Privacy Act, U.S.C. Sections 2510-2521, is confidential, and is legally privileged. This message and its attachments may also be privileged and attorney work product. They are intended for the individual or entity named above. If you are not the intended recipient, please do not read, copy, use or disclose this communication to others. You are hereby noticed that any dissemination, distribution or copy of this communication is strictly prohibited. If you have received this communication in error, please notify me immediately by responsive e-mail.

From: Scott C. Sinclair <ssinclair@sinclair-law.com>

Sent: Friday, June 16, 2023 9:29 AM

To: Claudia Rush (DNR) <Claudia.Rush4@la.gov>; Gladstone Jones' <GJones@jonesswanson.com>; Jonathan Rice <Jonathan.Rice@la.gov>

Cc: 'Kevin Huddell' <KHuddell@jonesswanson.com>; 'Edwin Hightower' <ehightower@adminlaw.la.gov>; Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@LA.GOV>; 'Bernard Boudreaux' <BBoudreaux@jonesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; 'OAL Processing' <OALProcessing@adminlaw.la.gov>; 'Cheryl Berner' <CBerner@jonesswanson.com>; 'Taylor Townsend' <taylor@taylortownsendlaw.com>; 'Craig Isenberg' <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; 'Alan Ezkovich' <alan.ezkovich@ezkovichlaw.com>; 'Lynn Swanson' <LSwanson@jonesswanson.com>;

john.king@bswllp.com; 'Taylor L. Gamm' <tgamm@barrassousdin.com>; dluder@barrassousdin.com; 'Jude C. Bursavich' <jude.bursavich@bswllp.com>; 'Michael Arata' <MArata@joneesswanson.com>; 'John Arnold' <JArnold@joneesswanson.com>; 'Alayne Gobeille' <agobeille@joneesswanson.com>; 'Tom Dixon' <tdixon@joneesswanson.com>; 'Rosa Acheson' <RAcheson@joneesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>

Subject: RE: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

EXTERNAL EMAIL: Please do not click on links or attachments unless you know the content is safe.

Good morning, Jonathan and Claudia:

I am following up on this to see if the technical team has any comments or questions regarding our planned sampling, which will start on Monday.

Let us know. Thanks.

Scott C. Sinclair

Sinclair Law Firm
PO Box 1026
Shreveport, LA 71163-1026
(318) 562-3700
ssinclair@sinclair-law.com

From: Scott C. Sinclair <ssinclair@sinclair-law.com>

Sent: Wednesday, June 14, 2023 1:53 PM

To: 'Claudia Rush (DNR)' <Claudia.Rush4@la.gov>; 'Gladstone Jones' <GJones@joneesswanson.com>; 'Jonathan Rice' <Jonathan.Rice@la.gov>

Cc: 'Kevin Huddell' <KHuddell@joneesswanson.com>; 'Edwin Hightower' <ehightower@adminlaw.la.gov>; 'Jamie Love (DNR)' <Jamie.Love@la.gov>; 'Houston Holley' <Houston.Holley@LA.GOV>; 'Bernard Boudreaux' <BBoudreaux@joneesswanson.com>; 'Gavin Broussard' <Gavin.Broussard@la.gov>; 'OAL Processing' <OALProcessing@adminlaw.la.gov>; 'Cheryl Berner' <CBerner@joneesswanson.com>; 'Taylor Townsend' <taylor@taylortownsendlaw.com>; 'Craig Isenberg' <cisenberg@barrassousdin.com>; 'swebre@barrassousdin.com' <swebre@barrassousdin.com>; 'Alan Ezkovich' <alan.ezkovich@ezkovichlaw.com>; 'Lynn Swanson' <LSwanson@joneesswanson.com>; 'john.king@bswllp.com' <john.king@bswllp.com>; 'Taylor L. Gamm' <tgamm@barrassousdin.com>; 'dluder@barrassousdin.com' <dluder@barrassousdin.com>; 'Jude C. Bursavich' <jude.bursavich@bswllp.com>; 'Michael Arata' <MArata@joneesswanson.com>; 'John Arnold' <JArnold@joneesswanson.com>; 'Alayne Gobeille' <agobeille@joneesswanson.com>; 'Tom Dixon' <tdixon@joneesswanson.com>; 'Rosa Acheson' <RAcheson@joneesswanson.com>; 'Monique Edwards (DNR)' <Monique.Edwards@la.gov>

Subject: RE: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

Jonathan and Claudia:

Thank you for the clarification that the only constituent for delineation is total Barium. That is how we understood the previous communications, but we appreciate you clarifying it.

Indigo Minerals reserves all substantive and procedural rights with respect to this entire matter. Nevertheless, as we have said previously, we will work cooperatively with the Commission to obtain additional information and we are committed to working with your office to obtain that information in a timely fashion so that the panel can timely formulate a final plan and so that Indigo's substantive and procedural rights to present that plan to the jury are preserved.

Regarding the Barium delineation, attached are maps showing the proposed sampling locations. Please share this information with the technical team and let us know if they have any comments or questions. Our plan is to begin this work on Monday, June 19. We also plan to request the lab to provide the Barium results on an expedited basis.

We look forward to hearing from you.

Scott C. Sinclair

Sinclair Law Firm
PO Box 1026
Shreveport, LA 71163-1026
(318) 562-3700
ssinclair@sinclair-law.com

From: Claudia Rush (DNR) <Claudia.Rush4@la.gov>

Sent: Monday, June 12, 2023 5:02 PM

To: Gladstone Jones <GJones@jonesswanson.com>; Jonathan Rice <Jonathan.Rice@la.gov>

Cc: Scott C. Sinclair <ssinclair@sinclair-law.com>; Kevin Huddell <KHuddell@jonesswanson.com>; Edwin Hightower <ehightower@adminlaw.la.gov>; Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@LA.GOV>; Bernard Boudreaux <BBoudreaux@jonesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; OAL Processing <OALProcessing@adminlaw.la.gov>; Cheryl Berner <CBerner@jonesswanson.com>; Taylor Townsend <taylor@taylortownsendlaw.com>; Craig Isenberg <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; Alan Ezkovich <alan.ezkovich@ezkovichlaw.com>; Lynn Swanson <LSwanson@jonesswanson.com>; john.king@bswllp.com; Taylor L. Gamm <tgamm@barrassousdin.com>; dluder@barrassousdin.com; Jude C. Bursavich <jude.bursavich@bswllp.com>; Michael Arata <MArata@jonesswanson.com>; John Arnold <JArnold@jonesswanson.com>; Alayne Gobeille <agobeille@jonesswanson.com>; Tom Dixon <tdixon@jonesswanson.com>; Rosa Acheson <RAcheson@jonesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>

Subject: RE: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

Good afternoon Mr. Jones,

After reviewing your email, we would like to clarify a certain point. The June 6th email, which was sent to both parties, is a clarification of the June 2nd email. As part of our review we need a delineation of the onsite **total Barium** only. Our technical team has not requested nor needs a delineation of any other constituents.

Sincerely,
Claudia Rush



Claudia I Rush
Attorney
Office of Conservation

Department of Natural Resources
Post Office Box 94275
LaSalle Building
617 North Third Street
Baton Rouge, LA 70804
Phone: 225-342-5510
Email: claudia.rush4@la.gov

This e-mail (including any attachments) is covered by the Electronic Communications Privacy Act, U.S.C. Sections 2510-2521, is confidential, and is legally privileged. This message and its attachments may also be privileged and attorney work product. They are intended for the individual or entity named above. If you are not the intended recipient, please do not read, copy, use or disclose this communication to others. You are hereby noticed that any dissemination, distribution or copy of this communication is strictly prohibited. If you have received this communication in error, please notify me immediately by responsive e-mail.

From: Gladstone Jones <GJones@jonesswanson.com>

Sent: Monday, June 12, 2023 11:48 AM

To: Jonathan Rice <Jonathan.Rice@la.gov>

Cc: Scott C. Sinclair <ssinclair@sinclair-law.com>; Kevin Huddell <KHuddell@jonesswanson.com>; Edwin Hightower <ehightower@adminlaw.la.gov>; Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@LA.GOV>; Claudia Rush (DNR) <Claudia.Rush4@la.gov>; Bernard Boudreaux <BBoudreaux@jonesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; OAL Processing <OALProcessing@adminlaw.la.gov>; Cheryl Berner <CBerner@jonesswanson.com>; Taylor Townsend <taylor@taylortownsendlaw.com>; Craig Isenberg <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; Alan Ezkovich <alan.ezkovich@ezkovichlaw.com>; Lynn Swanson <LSwanson@jonesswanson.com>; john.king@bswllp.com; Taylor L. Gamm <tgamm@barrassousdin.com>; dluder@barrassousdin.com; Jude C. Bursavich <jude.bursavich@bswllp.com>; Michael Arata <MArata@jonesswanson.com>; John Arnold <JArnold@jonesswanson.com>; Alayne Gobeille <agobeille@jonesswanson.com>; Tom Dixon <tdixon@jonesswanson.com>; Rosa Acheson <RAcheson@jonesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>

Subject: Re: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

EXTERNAL EMAIL: Please do not click on links or attachments unless you know the content is safe.

Scott,

To be clear, we need to discuss whether Indigo would be conducting sampling as requested by DNR and the sampling I was referring to was that set forth in the June 2nd correspondence and the June 6th email from Mr Rice. You only mentioned the June 2nd letter but in order for us to plan for our client we need confirmation Indigo will be following the direction of the DNR as set forth in the latter June 6th email from Mr Rice. So we are all on the same page I have copied that here:

1. A picture of the well and affidavit by both parties confirming that the picture is an accurate representation that that there is not well present.
2. Provide cross sections, including all available data (rig supply wells and EB borings).
3. Hypothetical plan must include the following missing information: a text description of the plan and what methodology would be performed for each well.
4. SN 239274: Provide samples for locations to the north, east and west of SB-2.
5. SN 239592: Provide a delineation to the east and north and SPLP for SB-2/2R (8-10) at the depth of 8-10 ft. bgs.
6. SN 240035: Provide delineation from east, south, and west for sample SB1/1R at the depth of 8-10 ft bgs. Provide delineation samples for north, east, and west of this location for SB-3 at the depth of 0-2 ft bgs. MW-1 at 8-12 ft bgs should be sampled above and below for delineation. Horizontally it should be delineated at the highest exceedance for barium.
7. SN 240037: More samples needed for these areas: SB-1/1R at the depth of 0-2 ft bgs should be horizontally delineated. SB-2/2R at the depth of 8-10 ft bgs should be sampled above and below for barium.
8. Please provide all data in the tables in the same units as required by – RECAP Section 2.5 & LAC 43:XIX.611.F.
9. It is noted that Indigo's June 6th letter provides the intended future use of the property.
10. According to RECAP Section 2.4 and LAC 43:XIX.611.F, 1 matrix spike/matrix spike duplicate from the site per 20 field samples shall be provided.

Please confirm.

Also, Indigo and the Gamble family should be clear with DNR that the intended use of this property is clearly provided for in the lease between Indigo and Gamble LLC which specifically states that this property is a rural residence, tree farm and management area. I look forward to chatting at 3pm. Best, Glad

Sent from my iPhone

On Jun 12, 2023, at 11:35 AM, Jonathan Rice <Jonathan.Rice@la.gov> wrote:

Conservation will be available at 3 p.m. today.

Best regards,

F. Jonathan Rice, Attorney
LDNR / Office of Conservation
Phone: (225) 342-9660
Fax: (225) 342-3705
Jonathan.rice@la.gov

From: Scott C. Sinclair <ssinclair@sinclair-law.com>
Sent: Monday, June 12, 2023 11:26 AM
To: 'Gladstone Jones' <GJones@jonesswanson.com>
Cc: Jonathan Rice <Jonathan.Rice@la.gov>; 'Kevin Huddell' <KHuddell@jonesswanson.com>; 'Edwin Hightower' <ehightower@adminlaw.la.gov>; Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@LA.GOV>; Claudia Rush (DNR) <Claudia.Rush4@la.gov>; 'Bernard Boudreaux' <BBoudreaux@jonesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; 'OAL Processing' <OALProcessing@adminlaw.la.gov>; 'Cheryl Berner' <CBerner@jonesswanson.com>; 'Taylor Townsend' <taylor@taylortownsendlaw.com>; 'Craig Isenberg' <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; 'Alan Ezkovich' <alan.ezkovich@ezkovichlaw.com>; 'Lynn Swanson' <LSwanson@jonesswanson.com>; john.king@bswllp.com; 'Taylor L. Gamm' <tgamm@barrassousdin.com>; dluder@barrassousdin.com; 'Jude C. Bursavich' <jude.bursavich@bswllp.com>; 'Michael Arata' <MArata@jonesswanson.com>; 'John Arnold' <JArnold@jonesswanson.com>; 'Alayne Gobeille' <agobeille@jonesswanson.com>; 'Tom Dixon' <tdixon@jonesswanson.com>; 'Rosa Acheson' <RAcheson@jonesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>
Subject: RE: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

EXTERNAL EMAIL: Please do not click on links or attachments unless you know the content is safe.

Glad:

In response to your question, Indigo's current intention is to collect the additional samples at the locations and for the parameters specified in the Commissioner's June 2 letter. Craig and I are available for a call with you and your team at 3:00 this afternoon. Let us know if that time is good for you, and we will send a calendar invite.

Thanks.

Scott C. Sinclair

Sinclair Law Firm
PO Box 1026
Shreveport, LA 71163-1026
(318) 562-3700
ssinclair@sinclair-law.com

From: Gladstone Jones <GJones@jonesswanson.com>
Sent: Monday, June 12, 2023 11:04 AM
To: Scott C. Sinclair <ssinclair@sinclair-law.com>
Cc: Jonathan Rice <Jonathan.Rice@la.gov>; Kevin Huddell <KHuddell@jonesswanson.com>; Edwin Hightower <ehightower@adminlaw.la.gov>; Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@la.gov>; Claudia Rush (DNR) <Claudia.Rush4@la.gov>; Bernard Boudreaux <BBoudreaux@jonesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; OAL Processing <OALProcessing@adminlaw.la.gov>; Cheryl Berner <CBerner@jonesswanson.com>; Taylor Townsend <taylor@taylortownsendlaw.com>; Craig Isenberg <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; Alan Ezkovich <alan.ezkovich@ezkovichlaw.com>; Lynn Swanson <LSwanson@jonesswanson.com>; john.king@bswllp.com; Taylor L. Gamm <tgamm@barrassousdin.com>; dluder@barrassousdin.com; Jude C. Bursavich <jude.bursavich@bswllp.com>; Michael Arata <MArata@jonesswanson.com>; John Arnold <JArnold@jonesswanson.com>; Alayne Gobeille <agobeille@jonesswanson.com>; Tom Dixon <tdixon@jonesswanson.com>; Rosa Acheson <RAcheson@jonesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>
Subject: Re: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

Jonathan,

Thank you to all. We will be reaching out to discuss scheduling with counsel for Indigo. We of course will want time to respond to any modified plan submitted by Indigo. A question that we need answered is whether Indigo will be sampling the pit areas as set forth in the June 6th correspondence? That may very well impact the time we will need to respond and whether we can do that inside the 30 days contemplated for a response by the landowner. Scott - please let us know the answer to this question and then we can arrange a call. We are available today or tomorrow. Thank you. Glad.

Sent from my iPhone

On Jun 12, 2023, at 10:59 AM, Scott C. Sinclair <ssinclair@sinclair-law.com> wrote:

Thank you, Mr. Rice.

Kevin, can you advise whether Gamble LLC has any objection to resetting the limited admission hearing for July 18-20? Those dates work for DNR and for Indigo.

Thanks.

Scott C. Sinclair

Sinclair Law Firm
PO Box 1026
Shreveport, LA 71163-1026
(318) 562-3700
ssinclair@sinclair-law.com

From: Jonathan Rice <Jonathan.Rice@la.gov>
Sent: Monday, June 12, 2023 10:55 AM
To: Scott C. Sinclair <ssinclair@sinclair-law.com>; 'Kevin Huddell' <KHuddell@jonesswanson.com>; 'Edwin Hightower' <ehightower@adminlaw.la.gov>
Cc: Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@LA.GOV>; Claudia Rush (DNR) <Claudia.Rush4@la.gov>; 'Bernard Boudreaux' <BBoudreaux@jonesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; 'OAL Processing' <OALProcessing@adminlaw.la.gov>; 'Cheryl Berner' <CBerner@jonesswanson.com>; 'Gladstone Jones' <GJones@jonesswanson.com>; 'Taylor Townsend' <taylor@taylortownsendlaw.com>; 'Craig Isenberg' <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; 'Alan Ezkovich' <Alan.Ezkovich@ezkovichlaw.com>; 'Lynn Swanson' <LSwanson@jonesswanson.com>; john.king@bswllp.com; 'Taylor L. Gamm' <tgamm@barrassousdin.com>; dluder@barrassousdin.com; 'Jude C. Bursavich' <jude.bursavich@bswllp.com>; 'Michael Arata' <MArata@jonesswanson.com>; 'John Arnold' <JArnold@jonesswanson.com>; 'Alayne Gobeille' <agobeille@jonesswanson.com>; 'Tom Dixon' <tdixon@jonesswanson.com>; 'Rosa Acheson' <RAcheson@jonesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>
Subject: RE: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

Mr. Sinclair:

The July 18-20 dates are good with Conservation. Have you received a response from Mr. Huddell regarding the landowner's thoughts?

Best regards,

F. Jonathan Rice, Attorney
LDNR / Office of Conservation
Phone: (225) 342-9660
Fax: (225) 342-3705
Jonathan.rice@la.gov

From: Scott C. Sinclair <ssinclair@sinclair-law.com>
Sent: Friday, June 9, 2023 3:40 PM
To: Jonathan Rice <Jonathan.Rice@la.gov>; 'Kevin Huddell' <KHuddell@joneesswanson.com>; 'Edwin Hightower' <ehightower@adminlaw.la.gov>
Cc: Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@LA.GOV>; Claudia Rush (DNR) <Claudia.Rush4@la.gov>; 'Bernard Boudreaux' <BBoudreaux@joneesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; 'OAL Processing' <OALProcessing@adminlaw.la.gov>; 'Cheryl Berner' <CBerner@joneesswanson.com>; 'Gladstone Jones' <GJones@joneesswanson.com>; 'Taylor Townsend' <taylor@taylortownsendlaw.com>; 'Craig Isenberg' <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; 'Alan Ezkovich' <Alan.Ezkovich@ezkovichlaw.com>; 'Lynn Swanson' <LSwanson@joneesswanson.com>; john.king@bswllp.com; 'Taylor L. Gamm' <tgamm@barrassousdin.com>; dluder@barrassousdin.com; 'Jude C. Bursavich' <jude.bursavich@bswllp.com>; 'Michael Arata' <MArata@joneesswanson.com>; 'John Arnold' <JArnold@joneesswanson.com>; 'Alayne Gobeille' <agobeille@joneesswanson.com>; 'Tom Dixon' <tdixon@joneesswanson.com>; 'Rosa Acheson' <RAcheson@joneesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>
Subject: RE: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

EXTERNAL EMAIL: Please do not click on links or attachments unless you know the content is safe.

Mr. Rice:

As you know, Indigo Minerals firmly believes the proposed plan that it submitted is compliant with the requirements of Statewide Order 29B. You also know that, consistent with its position, Indigo Minerals has filed a motion in the underlying civil proceeding seeking an order compelling the Department to proceed with the limited admission hearing. Indigo Minerals reserves all rights with respect to these matters.

Nevertheless, we appreciate the expression in your email of a willingness to reset the hearing on an expedited basis with the understanding that DNR will be able to render a final plan in sufficient time prior to our trial set on October 23, 2023. By July 7, we can provide additional information and can further respond to the Commissioner's June 2 letter and your email below. That would allow us to reset the hearing for July 18 – 20. In turn, that would allow the Department to issue its most feasible plan no later than September 18.

Please confirm that July 18-20 are good dates for the panel.

To facilitate these schedule changes, we will submit for your review a joint motion to DAL to reset the limited admission hearing for July 18 and a joint motion to the DeSoto Parish court for additional time pursuant to R.S. 30:29.

Thank you.

Scott C. Sinclair

Sinclair Law Firm
PO Box 1026
Shreveport, LA 71163-1026
(318) 562-3700
ssinclair@sinclair-law.com

From: Jonathan Rice <Jonathan.Rice@la.gov>
Sent: Tuesday, June 6, 2023 5:23 PM
To: Scott C. Sinclair <ssinclair@sinclair-law.com>; 'Kevin Huddell' <KHuddell@jonesswanson.com>; 'Edwin Hightower' <ehightower@adminlaw.la.gov>
Cc: Jamie Love (DNR) <Jamie.Love@la.gov>; Houston Holley <Houston.Holley@LA.GOV>; Claudia Rush (DNR) <Claudia.Rush4@la.gov>; 'Bernard Boudreaux' <BBoudreaux@jonesswanson.com>; Gavin Broussard <Gavin.Broussard@la.gov>; 'OAL Processing' <OALProcessing@adminlaw.la.gov>; 'Cheryl Berner' <CBerner@jonesswanson.com>; 'Gladstone Jones' <GJones@jonesswanson.com>; 'Taylor Townsend' <taylor@taylortownsendlaw.com>; 'Craig Isenberg' <cisenberg@barrassousdin.com>; swebre@barrassousdin.com; 'Alan Ezkovich' <Alan.Ezkovich@ezkovichlaw.com>; 'Lynn Swanson' <LSwanson@jonesswanson.com>; john.king@bswllp.com; 'Taylor L. Gamm' <tgamm@barrassousdin.com>; dluder@barrassousdin.com; 'Jude C. Bursavich' <jude.bursavich@bswllp.com>; 'Michael Arata' <MArata@jonesswanson.com>; 'John Arnold' <JArnold@jonesswanson.com>; 'Alayne Gobeille' <agobeille@jonesswanson.com>; 'Tom Dixon' <tdixon@jonesswanson.com>; 'Rosa Acheson' <RAcheson@jonesswanson.com>; Monique Edwards (DNR) <Monique.Edwards@la.gov>; Jonathan Rice <Jonathan.Rice@la.gov>
Subject: 2023.06.06 Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC, DNR OC Legacy No. 042-003-001 [DAL# 2023-3171-DNR-OOC]

Mr. Sinclair:

The Division of Administrative Law has continued this matter in light of the Office of Conservation's June 2nd letter sent to your office. We are again requesting that Indigo move for a continuance (on behalf of the DNR/OC) by tomorrow, June 7, 2023, so a Statewide Order 29B compliant plan can be submitted to this Office for review.

Again, please see the reasons set forth in Conservation's June 2nd letter; and furthermore, please see the reasons and responses (to your June 6th letter to the Commissioner) set forth below.

1. A picture of the well and affidavit by both parties confirming that the picture is an accurate representation that that there is not well present.
2. Provide cross sections, including all available data (rig supply wells and EB borings).
3. Hypothetical plan must include the following missing information: a text description of the plan and what methodology would be performed for each well.
4. SN 239274: Provide samples for locations to the north, east and west of SB-2.

5. SN 239592: Provide a delineation to the east and north and SPLP for SB-2/2R (8-10) at the depth of 8-10 ft. bgs.
6. SN 240035: Provide delineation from east, south, and west for sample SB1/1R at the depth of 8-10 ft bgs. Provide delineation samples for north, east, and west of this location for SB-3 at the depth of 0-2 ft bgs. MW-1 at 8-12 ft bgs should be sampled above and below for delineation. Horizontally it should be delineated at the highest exceedance for barium.
7. SN 240037: More samples needed for these areas: SB-1/1R at the depth of 0-2 ft bgs should be horizontally delineated. SB-2/2R at the depth of 8-10 ft bgs should be sampled above and below for barium.
8. Please provide all data in the tables in the same units as required by – RECAP Section 2.5 & LAC 43:XIX.611.F.
9. It is noted that Indigo's June 6th letter provides the intended future use of the property.
10. According to RECAP Section 2.4 and LAC 43:XIX.611.F, 1 matrix spike/matrix spike duplicate from the site per 20 field samples shall be provided.

The sooner your client provides the necessary requested information for a compliant plan, the sooner Conservation can reset the Administrative Hearing to provide sufficient time prior to your trial set in October 23, 2023. Please notify Conservation if Indigo does not intend to file a Continuance on DNR//OC's behalf. Thank you for your time and attention to this matter.

Best regards,

F. Jonathan Rice, Attorney
LDNR / Office of Conservation
Executive Division
P.O. Box 94275
Baton Rouge, LA 70804-9275
Phone: (225) 342-9660
Fax: (225) 342-3705
Jonathan.rice@la.gov

CONFIDENTIALITY NOTICE

This email communication may contain confidential information which also may be legally privileged and is intended only for the use of the intended recipients identified above. If you are not the intended recipient of this communication, you are hereby notified that any unauthorized review, use, dissemination, distribution, downloading, or copying of this communication is strictly prohibited. If you are not the intended recipient and have received this communication in error, please immediately notify us by reply email, delete the communication and destroy all copies.

COMPUTER SYSTEM USE/CONSENT NOTICE

This message was sent from a computer system which is the property of the State of Louisiana and the Department of Natural Resources (DNR). It is for authorized business use only. Users (authorized or unauthorized) have no explicit or implicit expectation of privacy. Any or all uses of this system and all files on this system may be intercepted, monitored, recorded, copied, audited, inspected, and disclosed to Department of Natural Resources and law enforcement personnel. By using this system the user

consents to such interception, monitoring, recording, copying, auditing, inspection, and disclosure at the discretion of DNR.

CONFIDENTIALITY NOTICE

This email communication may contain confidential information which also may be legally privileged and is intended only for the use of the intended recipients identified above. If you are not the intended recipient of this communication, you are hereby notified that any unauthorized review, use, dissemination, distribution, downloading, or copying of this communication is strictly prohibited. If you are not the intended recipient and have received this communication in error, please immediately notify us by reply email, delete the communication and destroy all copies.

COMPUTER SYSTEM USE/CONSENT NOTICE

This message was sent from a computer system which is the property of the State of Louisiana and the Department of Natural Resources (DNR). It is for authorized business use only. Users (authorized or unauthorized) have no explicit or implicit expectation of privacy. Any or all uses of this system and all files on this system may be intercepted, monitored, recorded, copied, audited, inspected, and disclosed to Department of Natural Resources and law enforcement personnel. By using this system the user consents to such interception, monitoring, recording, copying, auditing, inspection, and disclosure at the discretion of DNR.

"This email originated outside the organization. Do not click any links or attachments unless you have confirmed the legitimacy of the message."

CONFIDENTIALITY NOTICE

This email communication may contain confidential information which also may be legally privileged and is intended only for the use of the intended recipients identified above. If you are not the intended recipient of this communication, you are hereby notified that any unauthorized review, use, dissemination, distribution, downloading, or copying of this communication is strictly prohibited. If you are not the intended recipient and have received this communication in error, please immediately notify us by reply email, delete the communication and destroy all copies.

COMPUTER SYSTEM USE/CONSENT NOTICE

This message was sent from a computer system which is the property of the State of Louisiana and the Department of Natural Resources (DNR). It is for authorized business use only. Users (authorized or unauthorized) have no explicit or implicit expectation of privacy. Any or all uses of this system and all files on this system may be intercepted, monitored, recorded, copied, audited, inspected, and disclosed to Department of Natural Resources and law enforcement personnel. By using this system the user consents to such interception, monitoring, recording, copying, auditing, inspection, and disclosure at the discretion of DNR.

"This email originated outside the organization. Do not click any links or attachments unless you have confirmed the legitimacy of the message."

CONFIDENTIALITY NOTICE

This email communication may contain confidential information which also may be legally privileged and is intended only for the use of the intended recipients identified above. If you are not the intended recipient of this communication, you are hereby notified that any unauthorized review, use, dissemination, distribution, downloading, or copying of this communication is strictly prohibited. If you are not the intended recipient and have received this communication in error, please immediately notify us by reply email, delete the communication and destroy all copies.

COMPUTER SYSTEM USE/CONSENT NOTICE

This message was sent from a computer system which is the property of the State of Louisiana and the Department of

Natural Resources (DNR). It is for authorized business use only. Users (authorized or unauthorized) have no explicit or implicit expectation of privacy. Any or all uses of this system and all files on this system may be intercepted, monitored, recorded, copied, audited, inspected, and disclosed to Department of Natural Resources and law enforcement personnel. By using this system the user consents to such interception, monitoring, recording, copying, auditing, inspection, and disclosure at the discretion of DNR.

CONFIDENTIALITY NOTICE

This email communication may contain confidential information which also may be legally privileged and is intended only for the use of the intended recipients identified above. If you are not the intended recipient of this communication, you are hereby notified that any unauthorized review, use, dissemination, distribution, downloading, or copying of this communication is strictly prohibited. If you are not the intended recipient and have received this communication in error, please immediately notify us by reply email, delete the communication and destroy all copies.

COMPUTER SYSTEM USE/CONSENT NOTICE

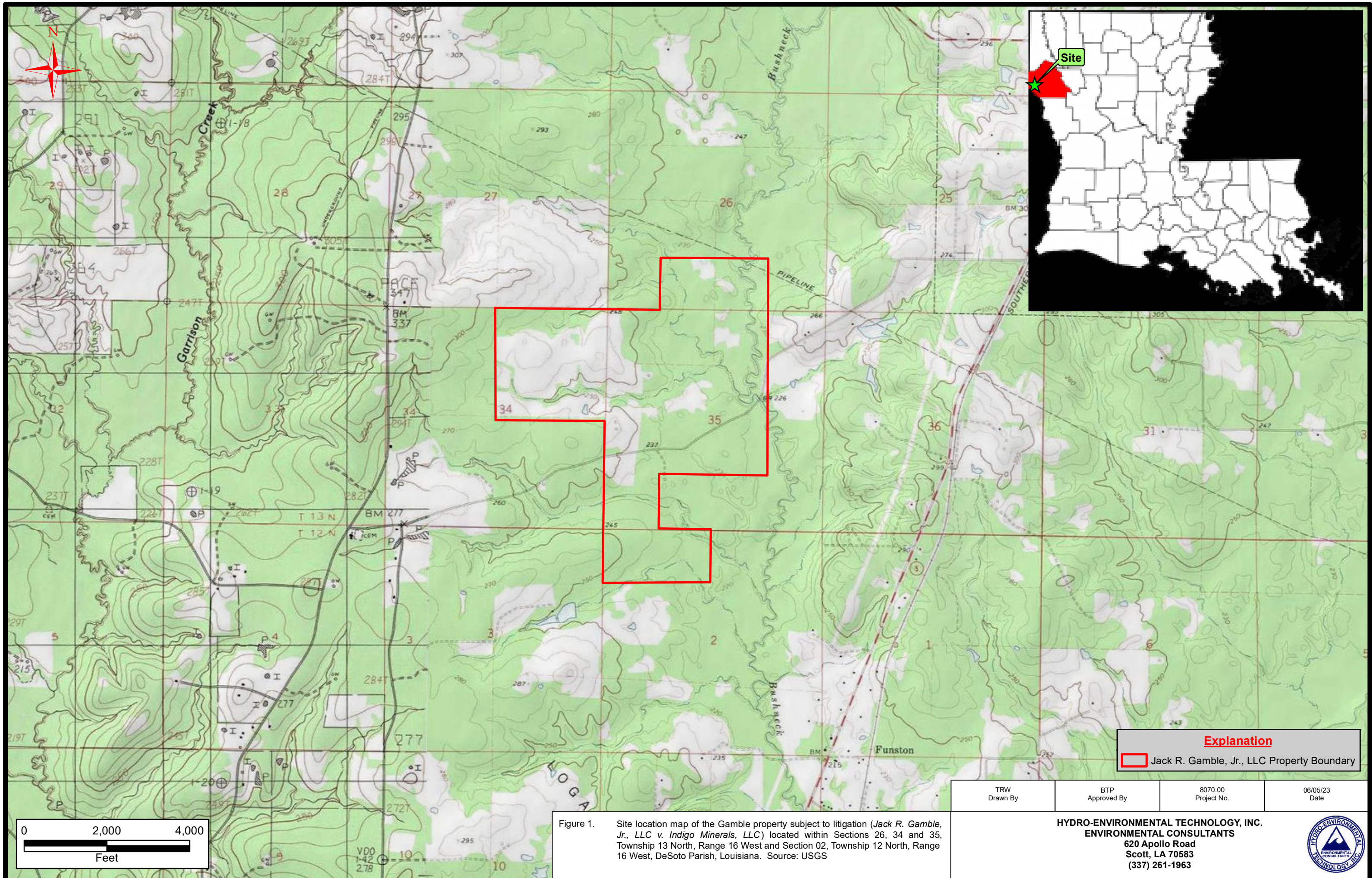
This message was sent from a computer system which is the property of the State of Louisiana and the Department of Natural Resources (DNR). It is for authorized business use only. Users (authorized or unauthorized) have no explicit or implicit expectation of privacy. Any or all uses of this system and all files on this system may be intercepted, monitored, recorded, copied, audited, inspected, and disclosed to Department of Natural Resources and law enforcement personnel. By using this system the user consents to such interception, monitoring, recording, copying, auditing, inspection, and disclosure at the discretion of DNR.

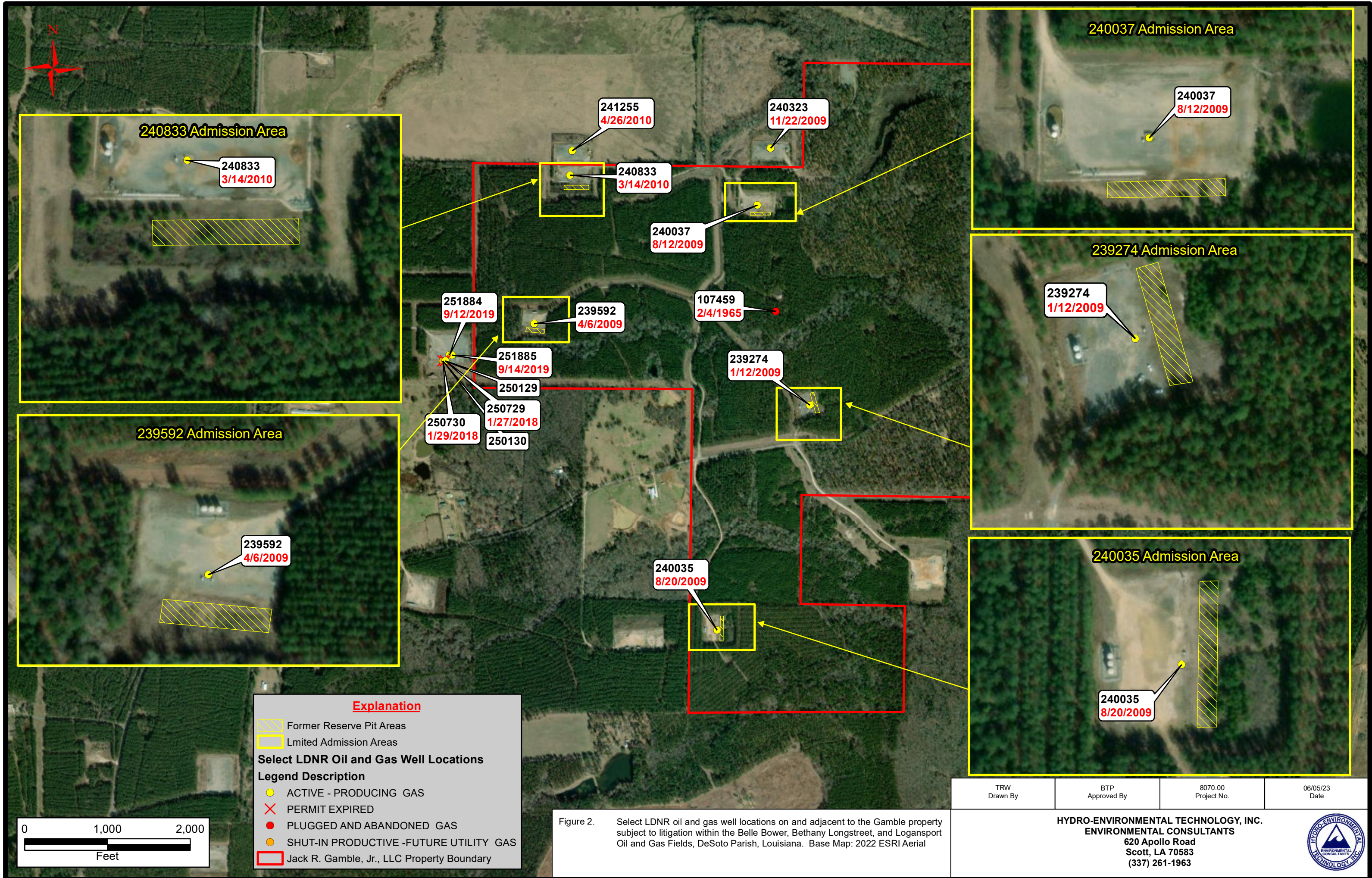
CONFIDENTIALITY NOTICE

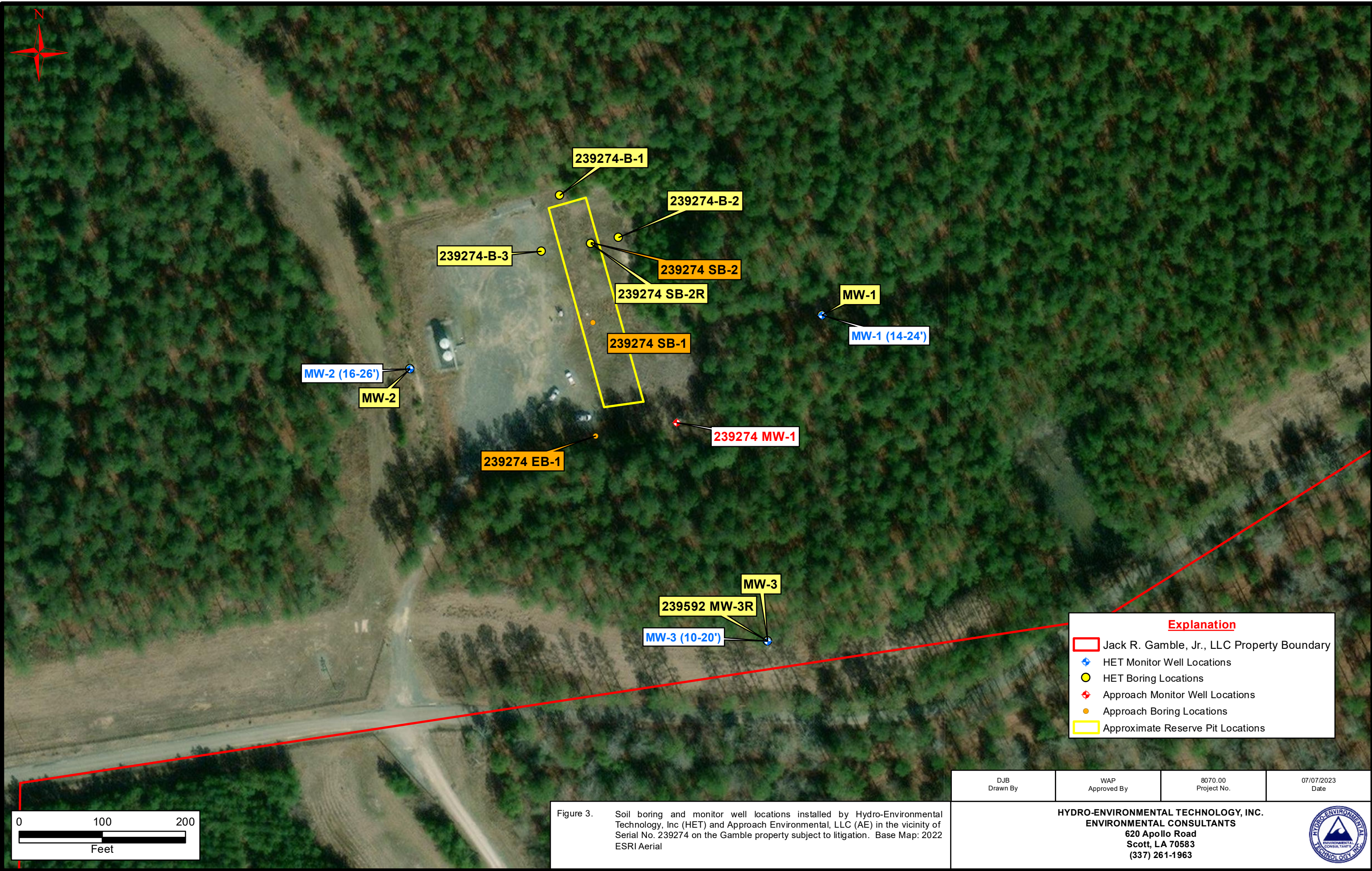
This email communication may contain confidential information which also may be legally privileged and is intended only for the use of the intended recipients identified above. If you are not the intended recipient of this communication, you are hereby notified that any unauthorized review, use, dissemination, distribution, downloading, or copying of this communication is strictly prohibited. If you are not the intended recipient and have received this communication in error, please immediately notify us by reply email, delete the communication and destroy all copies.

COMPUTER SYSTEM USE/CONSENT NOTICE

This message was sent from a computer system which is the property of the State of Louisiana and the Department of Natural Resources (DNR). It is for authorized business use only. Users (authorized or unauthorized) have no explicit or implicit expectation of privacy. Any or all uses of this system and all files on this system may be intercepted, monitored, recorded, copied, audited, inspected, and disclosed to Department of Natural Resources and law enforcement personnel. By using this system the user consents to such interception, monitoring, recording, copying, auditing, inspection, and disclosure at the discretion of DNR.







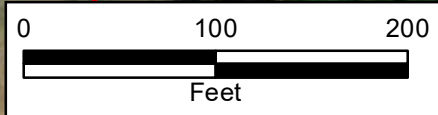
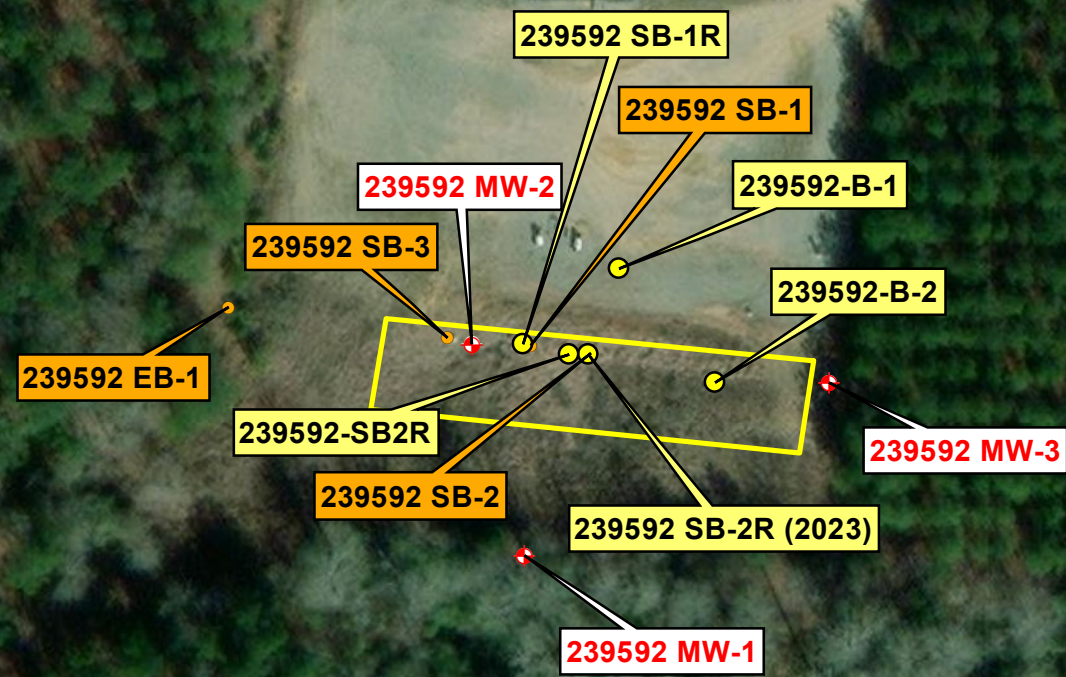
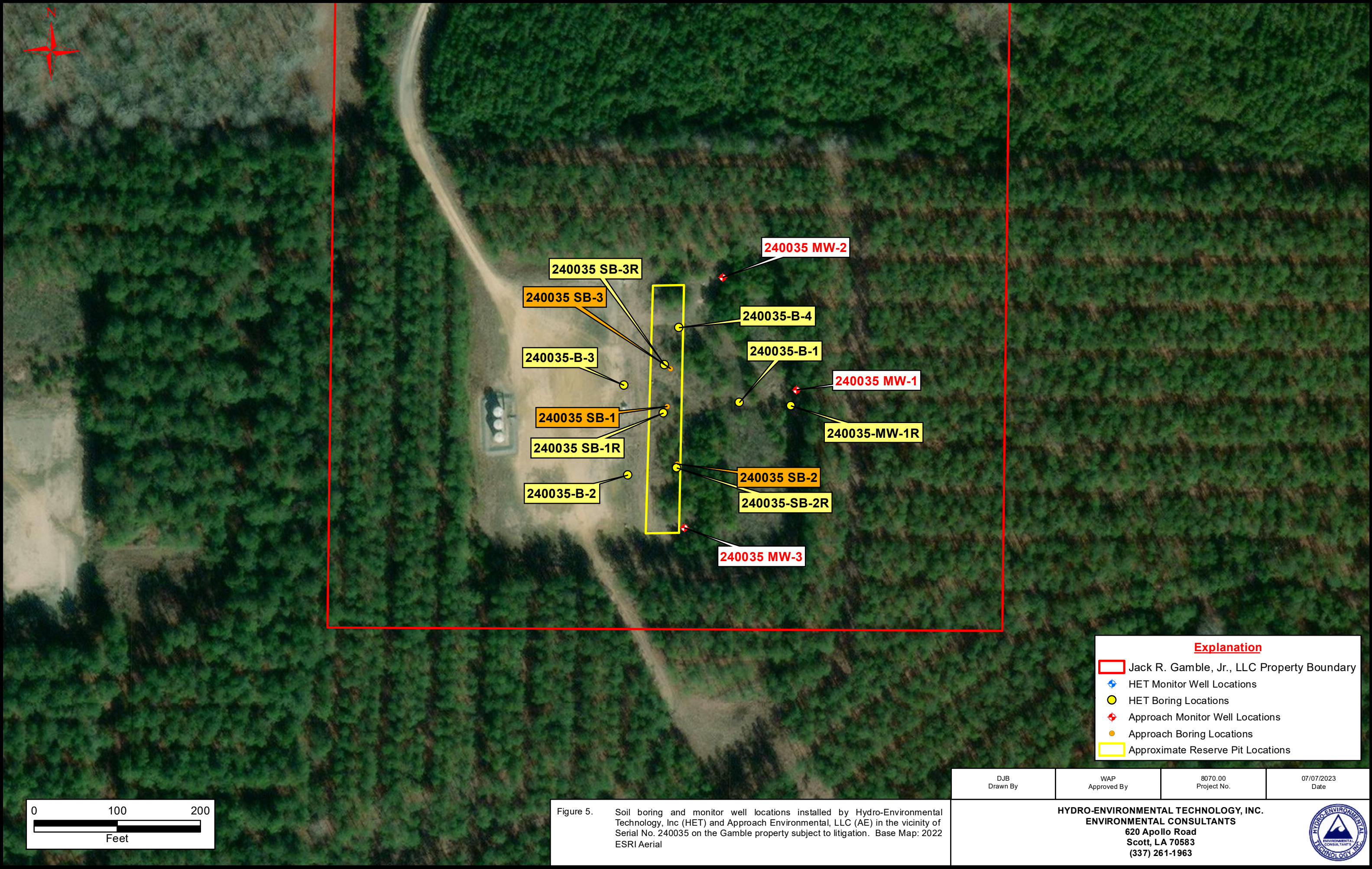


Figure 4. Soil boring and monitor well locations installed by Hydro-Environmental Technology, Inc (HET) and Approach Environmental, LLC (AE) in the vicinity of Serial No. 239592 on the Gamble property subject to litigation. Base Map: 2022 ESRI Aerial

Explanation	
	Jack R. Gamble, Jr., LLC Property Boundary
	HET Monitor Well Locations
	HET Boring Locations
	Approach Monitor Well Locations
	Approach Boring Locations
	Approximate Reserve Pit Locations

DJB Drawn By	WAP Approved By	8070.00 Project No.	07/07/2023 Date
-----------------	--------------------	------------------------	--------------------

HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
ENVIRONMENTAL CONSULTANTS
620 Apollo Road
Scott, LA 70583
(337) 261-1963



Explanation	
	Jack R. Gamble, Jr., LLC Property Boundary
	HET Monitor Well Locations
	HET Boring Locations
	Approach Monitor Well Locations
	Approach Boring Locations
	Approximate Reserve Pit Locations

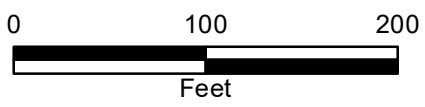
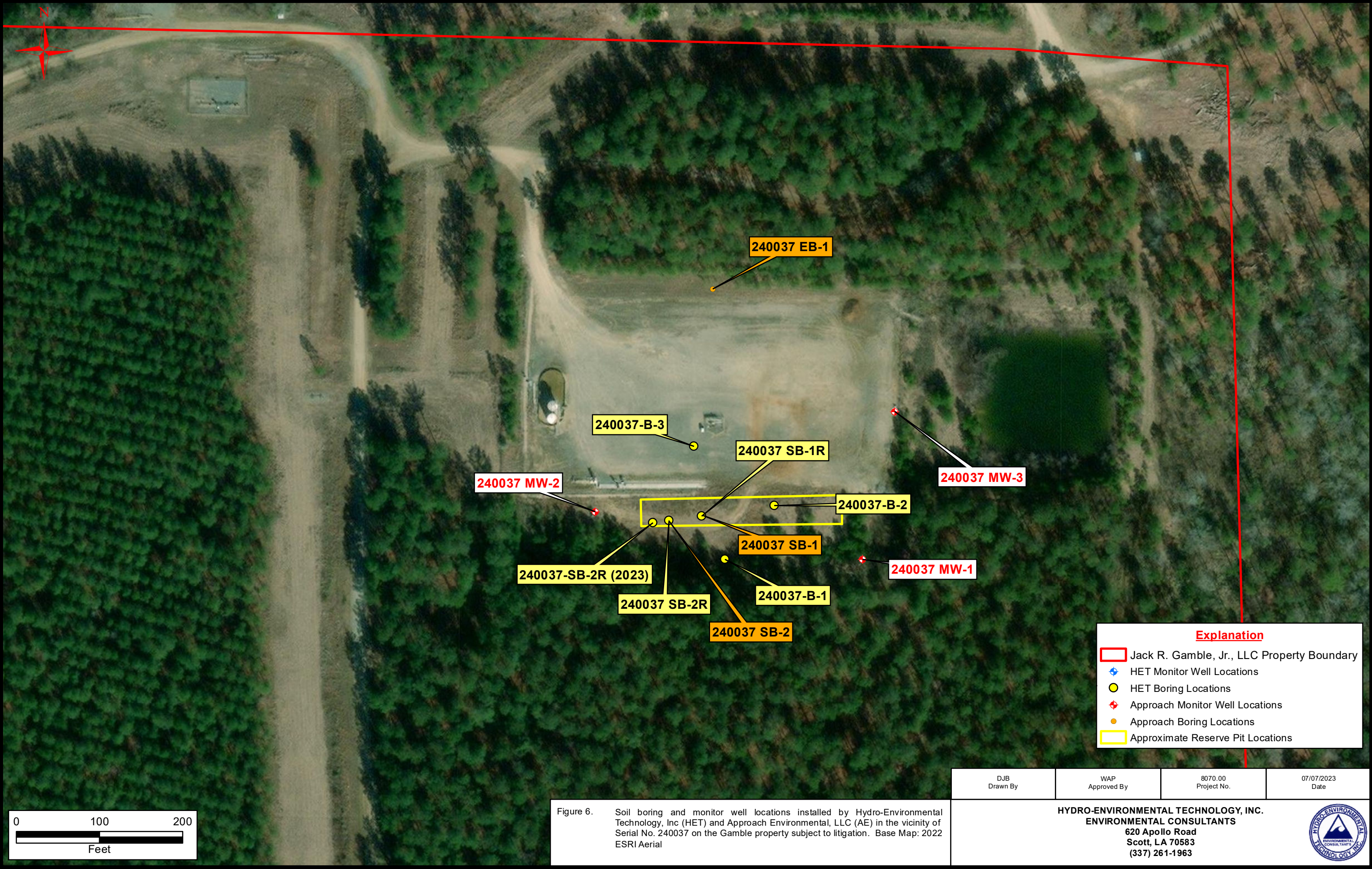


Figure 5. Soil boring and monitor well locations installed by Hydro-Environmental Technology, Inc (HET) and Approach Environmental, LLC (AE) in the vicinity of Serial No. 240035 on the Gamble property subject to litigation. Base Map: 2022 ESRI Aerial

DJB Drawn By	WAP Approved By	8070.00 Project No.	07/07/2023 Date
-----------------	--------------------	------------------------	--------------------

HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
ENVIRONMENTAL CONSULTANTS
620 Apollo Road
Scott, LA 70583
(337) 261-1963



Explanation

- Jack R. Gamble, Jr., LLC Property Boundary
- HET Monitor Well Locations
- HET Boring Locations
- Approach Monitor Well Locations
- Approach Boring Locations
- Approximate Reserve Pit Locations

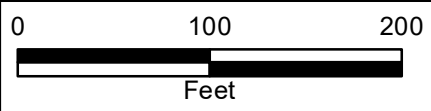
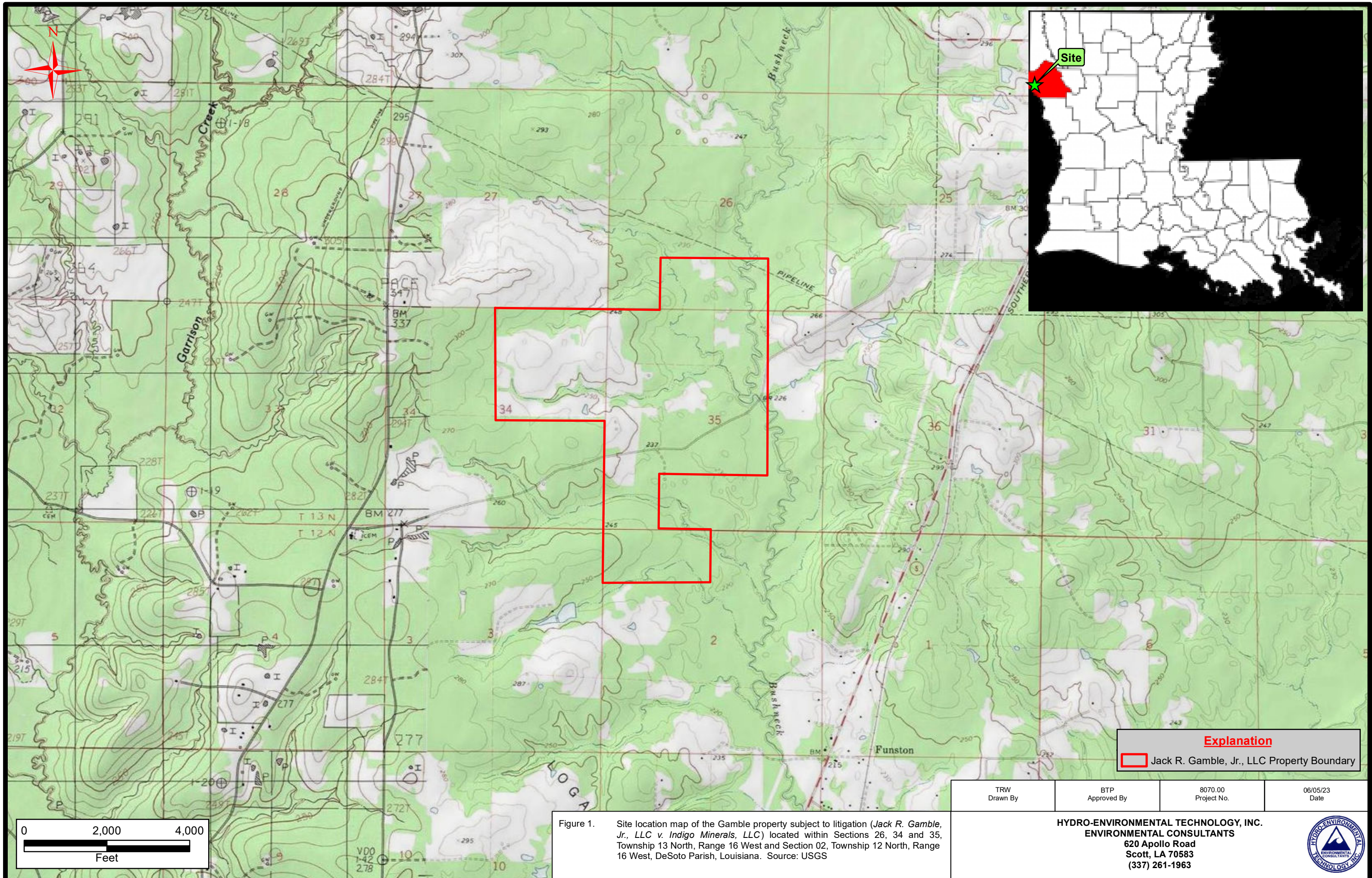
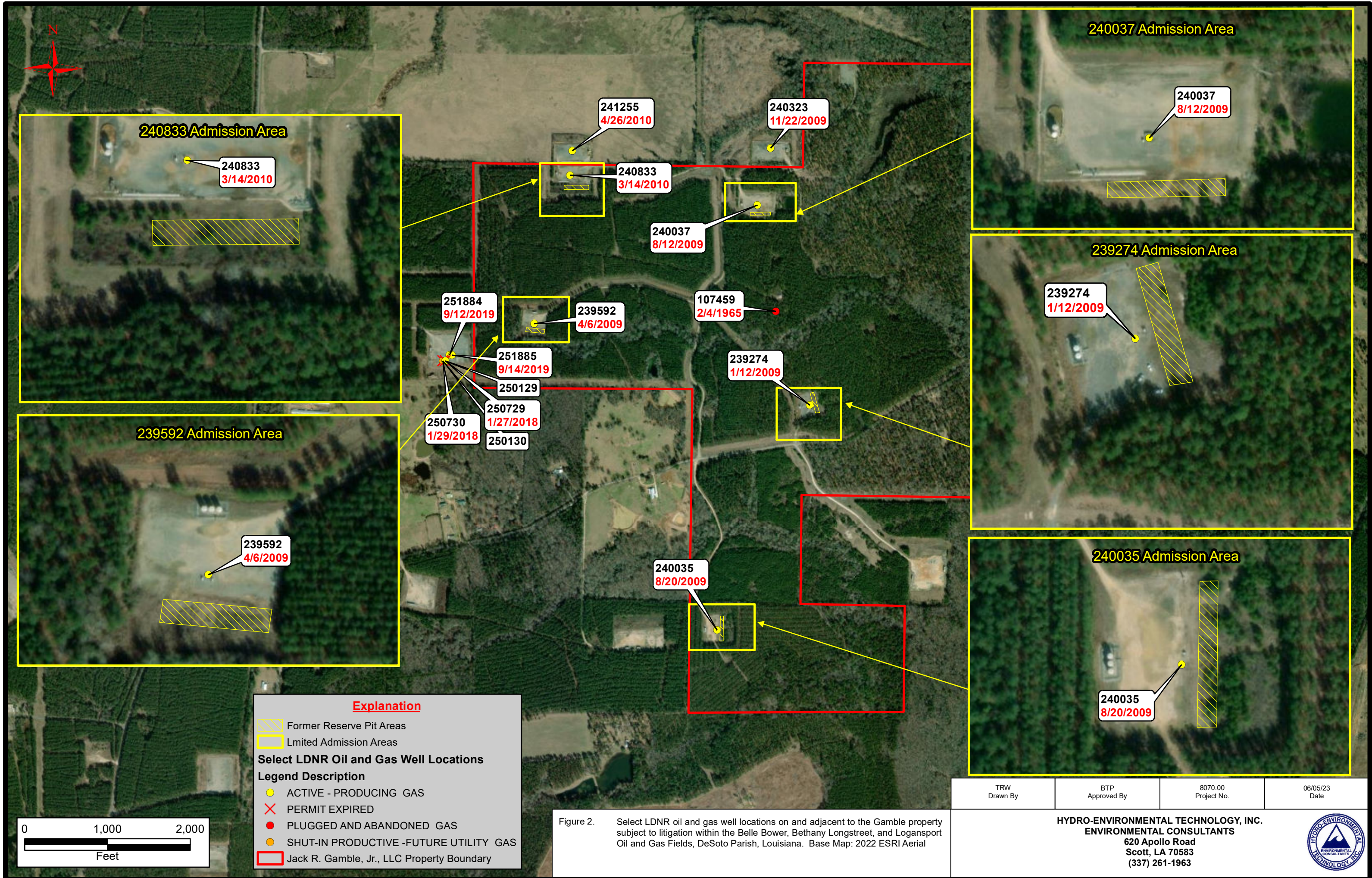


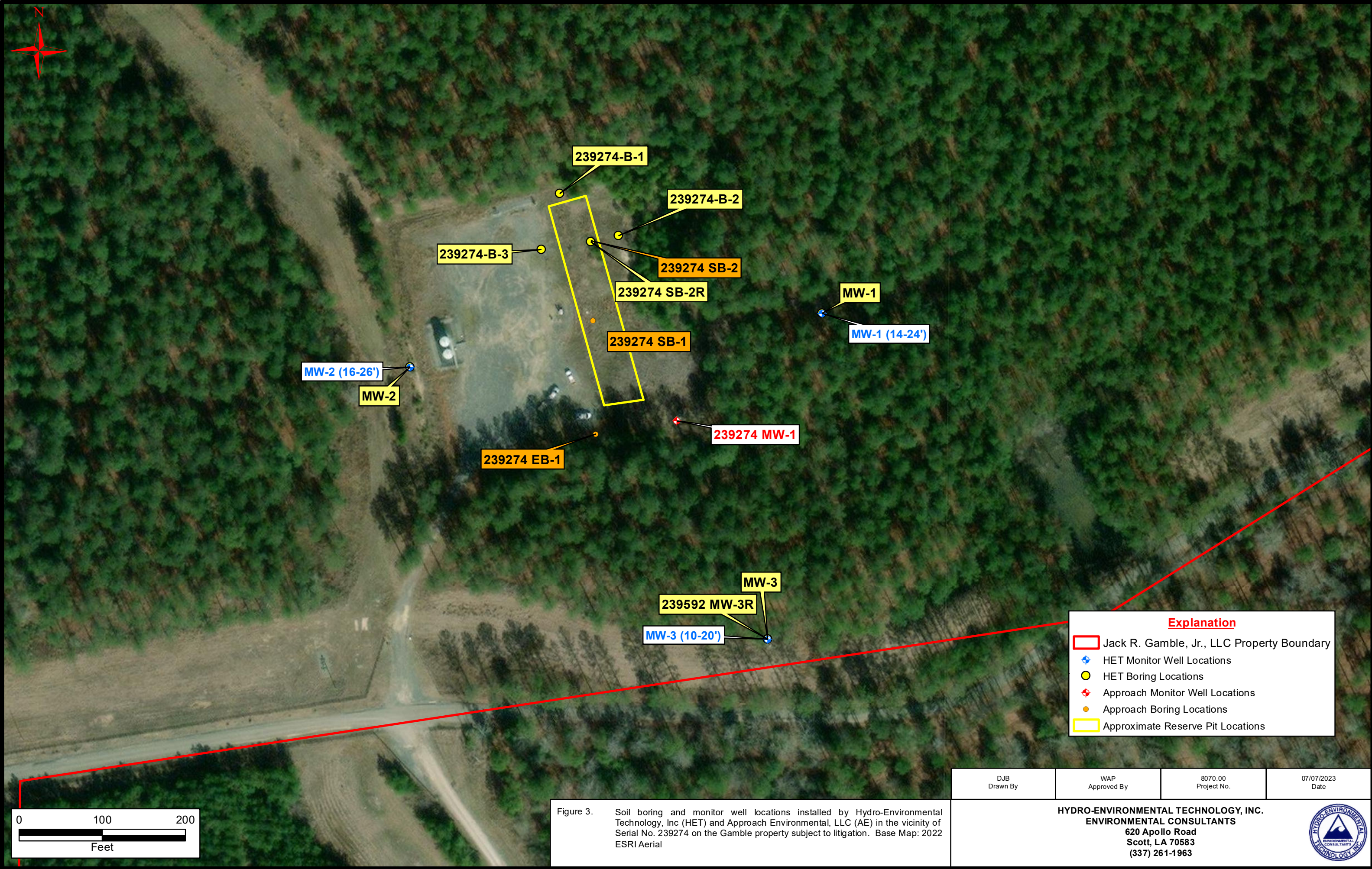
Figure 6. Soil boring and monitor well locations installed by Hydro-Environmental Technology, Inc (HET) and Approach Environmental, LLC (AE) in the vicinity of Serial No. 240037 on the Gamble property subject to litigation. Base Map: 2022 ESRI Aerial

DJB Drawn By	WAP Approved By	8070.00 Project No.	07/07/2023 Date
-----------------	--------------------	------------------------	--------------------

HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
ENVIRONMENTAL CONSULTANTS
620 Apollo Road
Scott, LA 70583
(337) 261-1963







Explanation

- Jack R. Gamble, Jr., LLC Property Boundary
- HET Monitor Well Locations
- HET Boring Locations
- Approach Monitor Well Locations
- Approach Boring Locations
- Approximate Reserve Pit Locations

Figure 3. Soil boring and monitor well locations installed by Hydro-Environmental Technology, Inc (HET) and Approach Environmental, LLC (AE) in the vicinity of Serial No. 239274 on the Gamble property subject to litigation. Base Map: 2022 ESRI Aerial

DJB Drawn By	WAP Approved By	8070.00 Project No.	07/07/2023 Date
-----------------	--------------------	------------------------	--------------------

HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
ENVIRONMENTAL CONSULTANTS
620 Apollo Road
Scott, LA 70583
(337) 261-1963



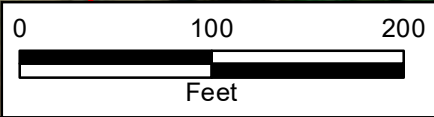
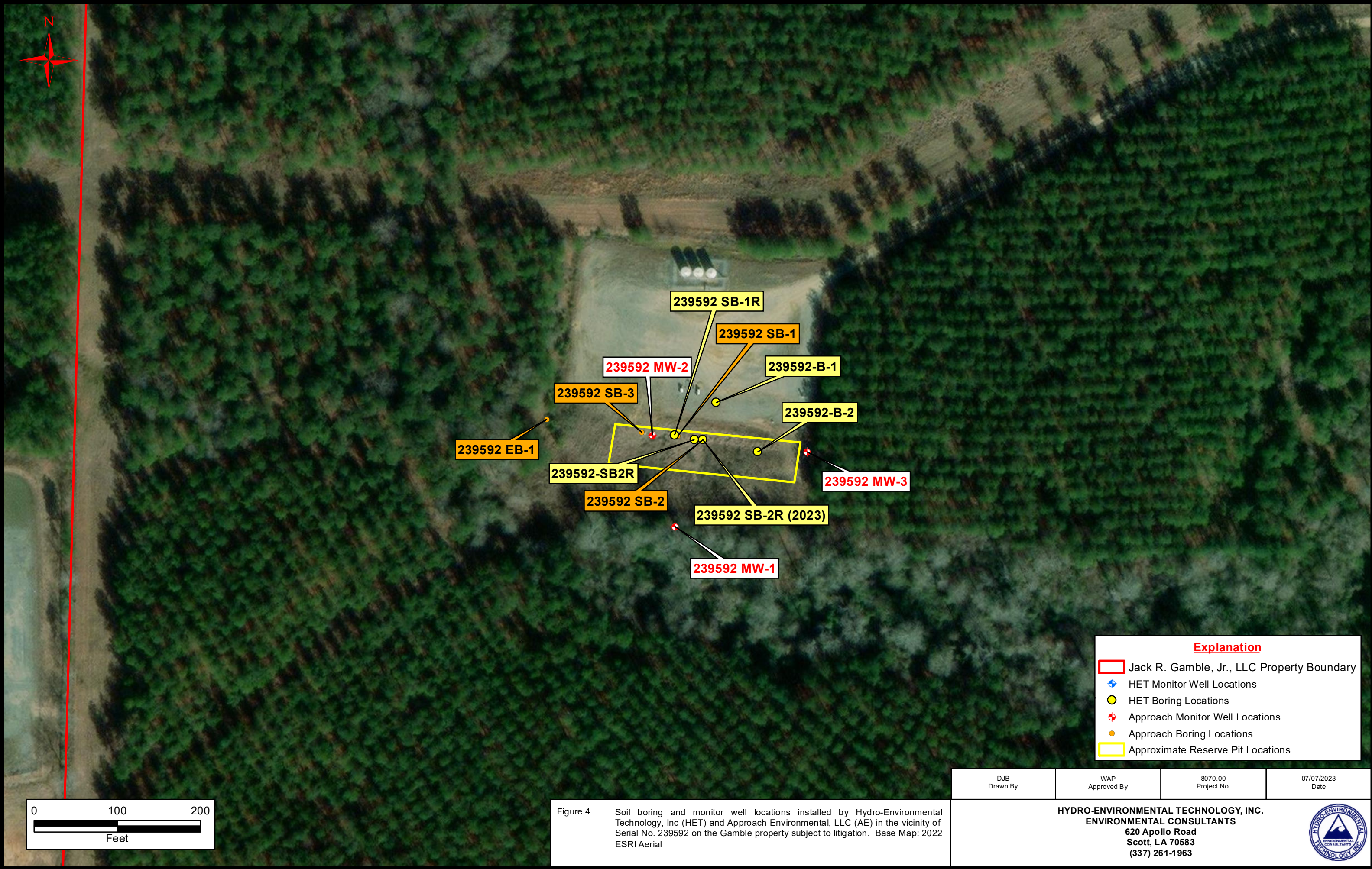
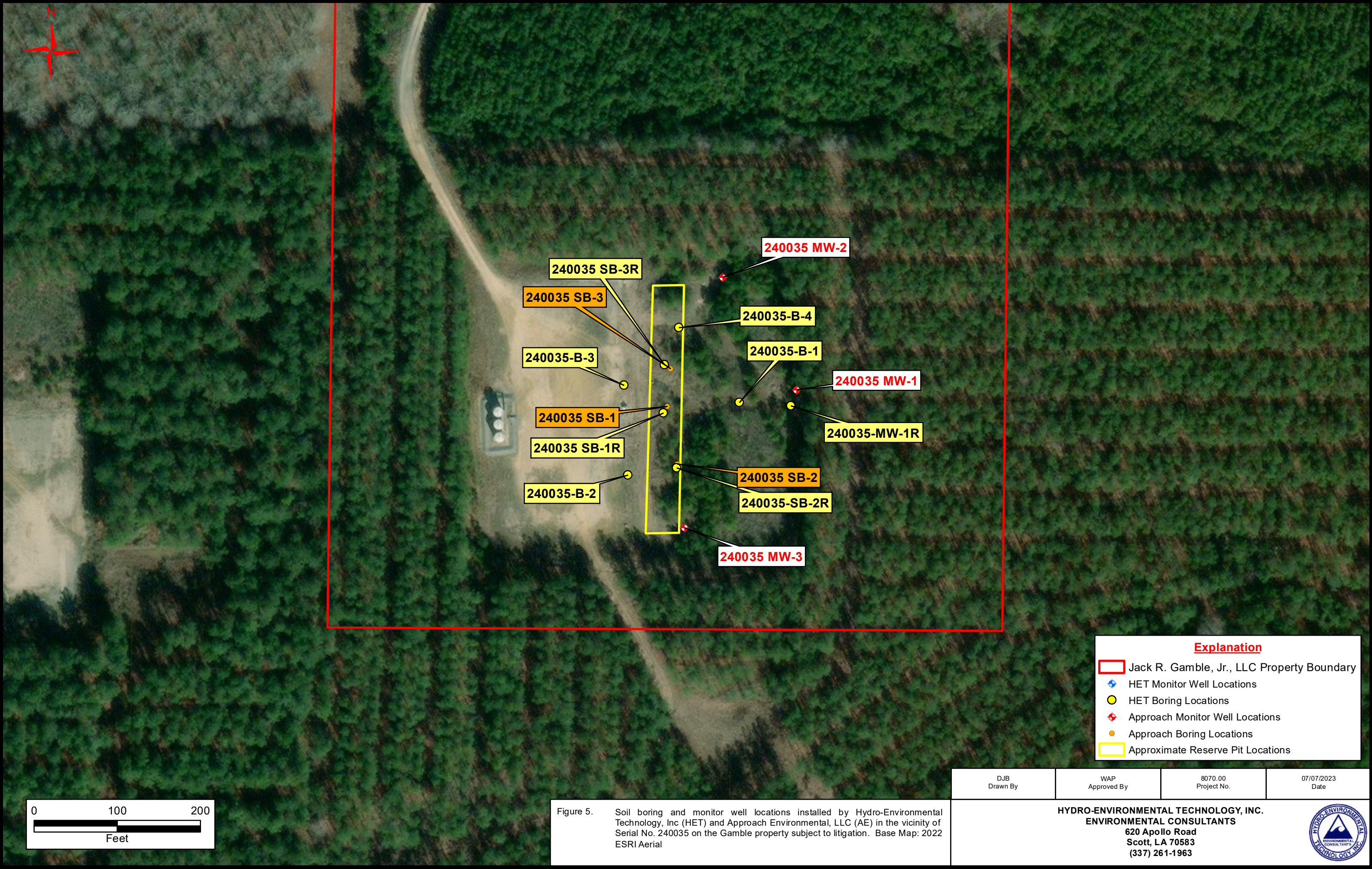


Figure 4. Soil boring and monitor well locations installed by Hydro-Environmental Technology, Inc (HET) and Approach Environmental, LLC (AE) in the vicinity of Serial No. 239592 on the Gamble property subject to litigation. Base Map: 2022 ESRI Aerial

Explanation	
	Jack R. Gamble, Jr., LLC Property Boundary
	HET Monitor Well Locations
	HET Boring Locations
	Approach Monitor Well Locations
	Approach Boring Locations
	Approximate Reserve Pit Locations

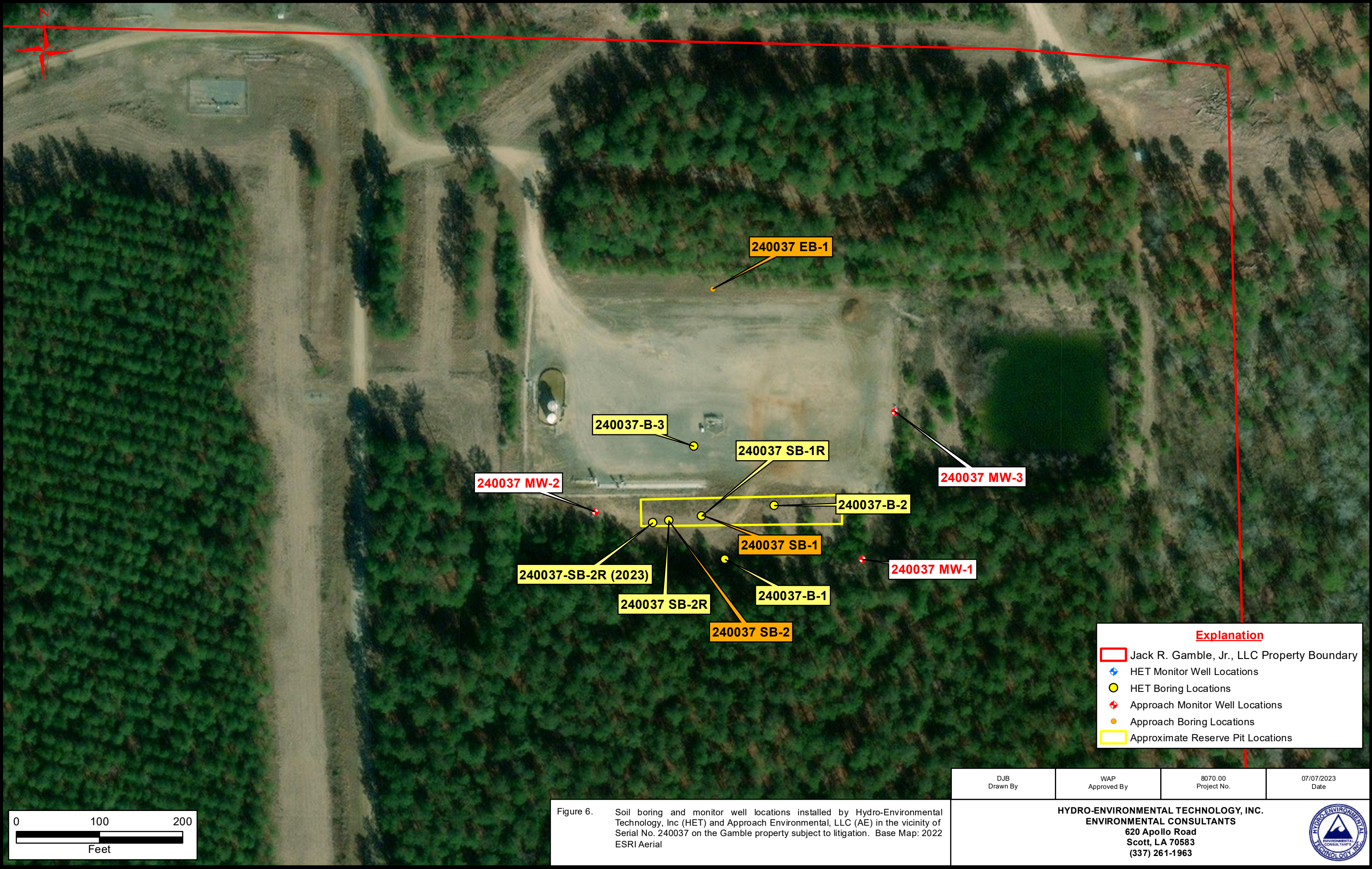
DJB Drawn By	WAP Approved By	8070.00 Project No.	07/07/2023 Date
HYDRO-ENVIRONMENTAL TECHNOLOGY, INC. ENVIRONMENTAL CONSULTANTS 620 Apollo Road Scott, LA 70583 (337) 261-1963			



Explanation	
	Jack R. Gamble, Jr., LLC Property Boundary
	HET Monitor Well Locations
	HET Boring Locations
	Approach Monitor Well Locations
	Approach Boring Locations
	Approximate Reserve Pit Locations

DJB Drawn By	WAP Approved By	8070.00 Project No.	07/07/2023 Date
HYDRO-ENVIRONMENTAL TECHNOLOGY, INC. ENVIRONMENTAL CONSULTANTS 620 Apollo Road Scott, LA 70583 (337) 261-1963 			

Figure 5. Soil boring and monitor well locations installed by Hydro-Environmental Technology, Inc (HET) and Approach Environmental, LLC (AE) in the vicinity of Serial No. 240035 on the Gamble property subject to litigation. Base Map: 2022 ESRI Aerial



Explanation

- Jack R. Gamble, Jr., LLC Property Boundary
- HET Monitor Well Locations
- HET Boring Locations
- Approach Monitor Well Locations
- Approach Boring Locations
- Approximate Reserve Pit Locations

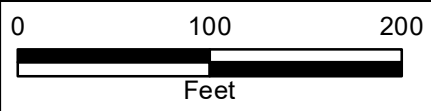


Figure 6. Soil boring and monitor well locations installed by Hydro-Environmental Technology, Inc (HET) and Approach Environmental, LLC (AE) in the vicinity of Serial No. 240037 on the Gamble property subject to litigation. Base Map: 2022 ESRI Aerial

DJB Drawn By	WAP Approved By	8070.00 Project No.	07/07/2023 Date
-----------------	--------------------	------------------------	--------------------

HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
ENVIRONMENTAL CONSULTANTS
620 Apollo Road
Scott, LA 70583
(337) 261-1963

Soil Analytical Summary - 29B Analyses (LDNR Serial No. 239274)

Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC
42nd Judicial District Court, Docket No. 81488, Division "B"
Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields
Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West
DeSoto Parish, Louisiana
LDNR OC Legacy File No. 042-003
HET Project No. 8070.00

Table 1
Page 1 of 2

Sample ID / Depth	Sample Date	Sampler	Salinity														Metals ⁶														Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Bicarbonate (as CaCO3)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Nickel	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	2320B	9056	29B	6010D	1312	6010D	29B	1312	6010D	6010D	6010D	7471A	6010D	6010D	6010D	6010D	6010D	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	mg/Kg	mg/Kg	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	6-9	N/A	
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A
LDEQ RECAP MO-1 Soilini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A	
SB-1 (14-16')	08/10/20	Approach	—	76.2	—	1.46	4.81	10.6	1.69	1.14	12.6	—	7.96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.5	—	18	
SB-1 (18-20')	08/10/20	Approach	—	109	—	2.02	2.22	18.1	1.4	1.03	20	—	5.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34.3	—	17	
SB-2R (0-2')	04/21/21	HET	—	—	—	<1.0	17.3	13.1	0.345	0.287	7.35	—	6.6	—	—	<0.010	—	—	49.4	129	—	—	—	—	—	—	—	—	—	35.84	6.21	18.1	
SB-2R (0-2')	04/21/21	Approach	—	17.4	—	0.818	10.7	12.7	0.228	0.188	5.79	—	11.2	—	41.1	<0.10	2.78	—	106	<500	—	<0.200	8.27	6.13	<0.0141	—	<1.00	<0.500	—	12.9	54.6	6.78	19.2
SB-2 (8-10')	08/10/20	Approach	—	145	—	1.81	34.2	19.0	1.51	<0.820	16.5	—	13.8	—	—	<0.10	6.52	—	2390	17100	—	<0.200	49	18.9	<0.0148	—	<1.00	<0.500	—	61.4	72	8.29	22
SB-2R (8-10')	04/21/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2700	6.90	—	—	—	—	—	—	—	—	—	—	—	—	
SB-2R (8-10')	04/21/21	Approach	—	254	—	1.95	20.3	18.2	0.934	0.418	15	—	16.2	—	—	<0.10	5.58	—	261	3770	<0.250	0.226	30.3	6.09	0.0173	—	<1.00	<0.500	—	46.5	78.7	8.38	26.2
B-1 (8-10)	06/19/23	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25.3	—	—	—	—	—	—	—	—	—	—	—	—	13.9	
B-1 (8-10)	06/19/23	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.9	—	—	—	—	—	—	—	—	—	—	—	—	—	
B-2 (8-10)	06/19/23	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34.4	—	—	—	—	—	—	—	—	—	—	—	—	14.5	
B-2 (8-10)	06/19/23	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	290	—	—	—	—	—	—	—	—	—	—	—	—	—	
B-3 (8-10)	06/19/23	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	39.6	—	—	—	—	—	—	—	—	—	—	—	—	14.4	
B-3 (8-10)	06/19/23	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22.1	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-1 (0-2')	07/20/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	1.90	—	—	<100	—	<0.50	7.5	5.2	<0.080	—	<1.0	<1.0	—	5.7	—	—	—	
HET MW-1 (0-2')	07/20/21	Approach	—	—	—	0.0570	0.505	0.300	<0.250	<0.410	0.3	—	9.83	—	—	—	3.28	—	34.3	<500	—	<0.200	10.6	9.32	0.0259	—	<1.00	<0.500	—	9.43	47.8	6.73	14.8
HET MW-1 (6-8')	07/20/21	HET	—	—	—	<1.0	31.0	5.88	12.0	19.3	23.2	—	11.6	—	—	—	4.40	—	—	291	—	<0.49	9.7	7.1	<0.074	—	<0.98	<0.98	—	17.7	69.27	5.45	17.6
HET MW-1 (6-8')	07/20/21	Approach	—	—	—	2.00	17.7	15.5	<0.500	<0.820	15.5	—	16.2	—	—	—	1.43	—	17.7	<500	—	<0.200	4.69	4.46	<0.0155	—	<1.00	<0.500	—	18.8	102	5.27	16.6
HET MW-1 (10-12')	07/20/21	HET	—	—	—	<1.0	30.5	6.28	14.7	20.1	26.0	—	10.5	—	—	—	1.20	—	—	172	—	<0.49	5.7	3.8	<0.069	—	<0.98	<0.98	—	10.4	38.2	6.69	18
HET MW-1 (10-12')	07/20/21	Approach	—	—	—	2.54	19.2	24.2	1.09	<0.820	17.9	—	11.4	—	—	—	<1.00	—	55	<500	—	<0.200	3.7	2.93	<0.0144	—	<1.00	<0.500	—	8.44	55.2	6.38	16.5
HET MW-1 (22-24')	07/20/21	HET	—	—	—	<1.0	4.09	1.27	21.4	16.6	5.52	—	13.7	—	—	—	7.10	—	—	184	—	<0.50	11.1	39	<0.080	—	<1.0	<1.0	—	24.3	37.71	7.16	24.5
HET MW-1 (22-24')	07/20/21	Approach	—	—	—	0.341	3.88	2.34	<0.500	<0.820	2.34	—	17	—	—	—	1.45	—	49.5	<500	—	<0.200	10.1	6.72	0.0388	—	<1.00	<0.500	—	19.6	55.9	7.03	23.8
MW-1 (26-30')	09/09/20	Approach	—	24.5	—	0.871	1.57	7.52	—	—	—	—	16.3	—	—	—	6.53	—	54.6	<500	—	0.442	11	7.94	0.0522	—	<1.00	1.28	—	45.9	60.3	7.70	22
HET MW-2 (13-15')	07/21/21	HET	—	—	—	<1.0	15.5	2.47	39.0	29.6	14.4	—	8.4	—	—	—	<1.0	—	—	<100	—	<0.50	3.4	2.6	<0.077	—	<1.0	<1.0	—	8.9	41.84	7.75	15.2
HET MW-2 (13-15')	07/21/21	Approach	—	—	—	0.246	9.62	1.59	<0.500	<0.820	1.59	—	10.1	—	—	—	2.27	—	25.4	<500	—	<0.200	2.49	4.11	0.056	—	<1.00	<0.500	—	12.5	55.4	6.77	13.1
HET MW-2 (14-16')	07/21/21	Approach	—	—	—	0.315	9.24	2.07	<0.500	<0.820	2.07	—	8.48	—	—	—	<1.00	—	21.7	<500	—	<0.200	2.85	3.18	<0.0157	—	<1.00	<0.500	—	8.28	48	6.51	15.8
HET MW-2 (24-26')	07/21/21	HET	—	—	—	<1.0	3.06	1.98	1.74	1.21	2.40	—	10.8	—	—	—	2.00	—	—	<100	—	<0.50	4.9	3.0	<0.069	—	<1.0	<1.0	—	42.5	41.63	7.14	27.9
HET MW-2 (24-26')	07/21/21	Approach	—	—	—	0.369	1.40	1.94	0.798	0.564	1.6	—	7.7	—	—	—	3.00	—	25.7	<500	—	<0.200	7.54	5.49	0.0254	—	<1.00	<0.500	—	50.5	47.2	6.62	25.5

Soil Analytical Summary - 29B Analyses (LDNR Serial No. 239274)

Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC
42nd Judicial District Court, Docket No. 81488, Division "B"
Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields
Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West
DeSoto Parish, Louisiana
LDNR OC Legacy File No. 042-003
HET Project No. 8070.00

Table 1
Page 2 of 2

Sample ID / Depth	Sample Date	Sampler	Salinity														Metals ⁶														Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Bicarbonate (as CaCO3)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Nickel	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	2320B	9056	29B	6010D	1312	6010D	29B	1312	6010D	6010D	6010D	7471A	6010D	6010D	6010D	6010D	6010D	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	mg/Kg	mg/Kg	%	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	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	ˆ6-9	N/A
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A
HET MW-3 (0-2')	07/21/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.60	—	—	<100	—	<0.45	4.00	5.2	<0.074	—	<0.91	<0.91	—	6.5	—	—	—
HET MW-3 (0-2')	07/21/21	Approach	—	—	—	0.216	0.241	1.36	<0.500	<0.820	1.36	—	11	—	—	—	1.19	—	20.8	<500	—	<0.200	4.3	3.91	0.0275	—	<1.00	<0.500	—	4.4	40.8	6.57	13
HET MW-3 (6-8')	07/21/21	HET	—	—	—	<1.0	39.1	6.05	3.46	5.08	12.4	—	9.4	—	—	—	1.30	—	—	158	—	<0.50	5.8	4.9	<0.074	—	<1.0	<1.0	—	11.7	49.7	4.90	15.1
HET MW-3 (6-8')	07/21/21	Approach	—	—	—	2.02	19.4	15.3	<0.500	<0.820	15.3	—	13.4	—	—	—	<1.00	—	109	558	—	<0.200	4.04	3.94	<0.0143	—	<1.00	<0.500	—	8.95	83.1	5.78	13.9
HET MW-3 (10-12')	07/21/21	HET	—	—	—	<1.0	42.9	4.01	13.4	16.2	15.3	—	9.7	—	—	—	1.50	—	—	<100	—	<0.48	6.3	3.3	<0.069	—	<0.96	<0.96	—	14.4	48.41	6.24	15
HET MW-3 (10-12')	07/21/21	Approach	—	—	—	0.271	20.8	1.72	<0.500	<0.820	1.72	—	15.8	—	—	—	1.61	—	36.1	<500	—	<0.200	4.5	3.01	<0.0152	—	<1.00	<0.500	—	13.9	85.5	6.50	15.8
HET MW-3 (16-18')	07/21/21	HET	—	—	—	<1.0	9.88	1.20	47.6	30.6	7.48	—	8.4	—	—	—	8.10	—	—	<100	—	<0.47	9.5	4.3	0.076	—	<0.94	<0.94	—	26.3	49.05	6.54	23.8
HET MW-3 (16-18')	07/21/21	Approach	—	—	—	0.152	5.18	0.893	<0.500	<0.820	0.893	—	18.6	—	—	—	3.19	—	58.2	<500	—	<0.200	8.7	7.05	0.0296	—	<1.00	<0.500	—	12.1	74.9	6.73	19.9
HET MW-3 (18-20')	07/21/21	HET	—	—	—	<1.0	6.45	1.24	79.5	43.9	9.74	—	10.7	—	—	—	9.20	—	—	<100	—	0.82	8.3	5.4	<0.074	—	1.4	<0.98	—	51.6	42.45	6.77	21
HET MW-3 (18-20')	07/21/21	Approach	—	—	—	0.175	4.02	1.27	<0.500	<0.820	1.27	—	17.5	—	—	—	5.82	—	73.2	<500	—	2.41	9.13	6.26	0.0357	—	<1.00	<0.500	—	64.3	48.4	7.38	22
Maximum	N/A	N/A	—	254	—	2.54	42.9	24.2	79.5	43.9	26.0	—	18.6	—	41.1	<0.10	9.20	—	2390	17100	6.90	2.41	49.0	39.0	0.0760	—	1.4	1.28	—	64.3	102	8.38	27.9
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	ˆ6-9	N/A
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A

1 - LDNR Statewide Order 29-B standards for Upland Criteria listed for reference purposes only
2 - RECAP Non-Industrial Screening Standards (lowest of Soil_{SSHi} and Soil_{SSGW}) per Table 1 of RECAP for comparison purposes only
3 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{ni} only) per Table 2 of RECAP listed for comparison purposes only
4 - SPLP standard determined by EPA Water Advisory Limit or LDEQ RECAP Groundwater Screening Standard multiplied by a default attenuation factor of 20 in accordance with LDEQ RECAP guidelines
5 - HET Calcium, Magnesium, and Sodium values reported in mg/L and converted to meq/L
6 - HET and Approach metal results reported in wet weight
mg/Kg - milligrams per kilogram equivalent to parts per million (ppm)
mmhos/cm - milli mohs per centimeter
mg/L - milligrams per liter
meq/L - milliequivalents per liter
mmhos/cm - milli mohs per centimeter
EC - Electrical Conductivity
ESP - Exchangeable Sodium Percentage
SAR - Sodium Adsorption Ratio
— Not Analyzed
N/A - Not Applicable

Soil Analytical Summary - RECAP Analyses (LDNR Serial No. 239274)																																
Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC 42nd Judicial District Court, Docket No. 81488, Division "B" Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West DeSoto Parish, Louisiana LDNR OC Legacy File No. 042-003 HET Project No. 8070.00																																
Table 2 Page 1 of 1																																
Sample ID / Depth (feet)	Sample Date	Sampler	TPH			VPH			EPH								PAH															
			TPH-GRO (C6-C10)	TPH-DRO (C10-C28)	TPH-ORO (>C28)	C6-C8 Aliphatics	C8-C10 Aliphatics	C8-C10 Aromatics	C10-C12 Aliphatics	C10-C12 Aromatics	C12-C16 Aliphatics	C12-C16 Aromatics	C16-C21 Aromatics	C16-C35 Aliphatics	C21-C35 Aromatics	2-Methyl- naphthalene	Ace- naphthene	Ace- naphthylene	Anthracene	Benzo(a)- anthracene	Benzo(a)- pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluor-anthene	Fluorene	Indeno (1,2,3- cd) pyrene	Naphthalene	Phen- anthrene	Pyrene	
			8015B	8015B	8015B	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B
			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 _{ini} 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-2R (0-2')	04/21/21	Approach	—	<3.33	5.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-2 (8-10')	08/10/20	Approach	—	4.17	10.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-2R (8-10')	04/21/21	Approach	—	<3.33	6.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-1 (0-2')	07/20/21	HET	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.2	<8.9	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-1 (22-24')	07/20/21	HET	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.1	<8.8	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-2 (13-15')	07/21/21	HET	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.2	<8.9	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-2 (14-16')	07/21/21	HET	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<8.0	<8.7	<5.3	<5.1	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-2 (24-26')	07/21/21	HET	—	—	—	<3.8	<3.0	<3.5	<3.2	<3.6	<7.9	<8.5	<5.2	<5.0	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-3 (0-2')	07/21/21	HET	—	—	—	<3.9	<3.1	<3.5	<3.2	<3.6	<8.1	<8.8	<5.3	<5.1	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-3 (18-20')	07/21/21	HET	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<7.9	<8.6	<5.2	<5.0	4.96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Maximum	N/A	N/A	—	4.17	10.6	<4.0	<3.1	<3.6	<3.3	<3.7	<8.2	<8.9	<5.4	<5.2	4.96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
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 _{ini} 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 - RECAP Non-Industrial Screening Standards (lowest of Soil_{SSW} and Soil_{SSGW}) per Table 1 of RECAP for comparison purposes only
2 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{ni only}) per Table 2 of RECAP listed for comparison purposes only
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 - RECAP Analyses (LDNR Serial No. 239592)

Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC
42nd Judicial District Court, Docket No. 81488, Division "B"
Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields
Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West
DeSoto Parish, Louisiana
LDNR OC Legacy File No. 042-003
HET Project No. 8070.00

Table 4
Page 1 of 1

Sample ID / Depth (feet)	Sample Date	Sampler	BTEX				VOC ³	TPH			VPH			EPH								PAH															
			Benzene	Toluene	Ethyl-benzene	Total Xylenes	Acetone	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	
			8260B	8260B	8260B	8260B	8260B	8015B	8015B	8015B	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B
			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	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
LDEQ RECAP SS ¹	10/20/03	N/A	0.051	20	19	18	1.5	65	65	180	1200	120	65	230	100	370	180	150	7100	180	1.7	220	88	120	0.62	0.33	0.62	6.2	62	0.33	220	230	0.62	1.5	660	230	
LDEQ RECAP MO-1 Soilini ²	N/A	N/A	1.5	680	1600	180	1700	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-1 (10-12')	08/11/20	Approach	—	—	—	—	—	—	4.93	4.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SB-2 (8-10')	08/11/20	Approach	—	—	—	—	—	—	33.3	<33.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SB-3 (6-8')	08/12/20	Approach	<0.0020	<0.0040	0.0024	<0.0020	0.0537	—	<3.33	11.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SB-3 (14-16')	08/12/20	Approach	—	—	—	—	—	—	<3.33	5.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
MW-2 (10-12')	10/26/21	Approach	—	—	—	—	—	—	4.01	<3.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
MW-2 (10-12')	10/26/21	HET	—	—	—	—	—	—	—	—	<3.9	5.18	<3.5	12	<3.6	48.1	<8.6	<5.2	54.6	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Maximum	N/A	N/A	<0.0020	<0.0040	0.0024	<0.0020	0.0537	—	33.3	11.5	<3.9	5.18	<3.5	12	<3.6	48.1	<8.6	<5.2	54.6	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
LDEQ RECAP SS ¹	10/20/03	N/A	0.051	20	19	18	1.5	65	65	180	1200	120	65	230	100	370	180	150	7100	180	1.7	220	88	120	0.62	0.33	0.62	6.2	62	0.33	220	230	0.62	1.5	660	230	
LDEQ RECAP MO-1 Soilini ²	N/A	N/A	1.5	680	1600	180	1700	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 - RECAP Non-Industrial Screening Standards (lowest of Soil_{SSM} and Soil_{SSCM}) per Table 1 of RECAP for comparison purposes only
2 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{ILCM}) per Table 2 of RECAP listed for comparison purposes only
3 - Remaining VOC compounds not listed in the table are below laboratory standards
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
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

Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC
42nd Judicial District Court, Docket No. 81488, Division "B"
Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields
Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West
DeSoto Parish, Louisiana
LDNR OC Legacy File No. 042-003
HET Project No. 8070.00

Sample ID / Depth	Sample Date	Sampler	Salinity														Metals ⁶																Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Bicarbonate (as CaCO3)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Nickel	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture		
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	2320B	9056	29B	6010D	1312	6010D	29B	1312	6010D	6010D	6010D	7471A	6010D	6010D	6010D	6010D	6010D	29B	29B	2540G		
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	mg/Kg	mg/Kg	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%	
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	'6-9	N/A			
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A			
SB-1R (0-2')	04/21/21	Approach	—	<4.00	—	0.276	0.104	0.246	1.52	0.498	0.248	—	12.8	—	<10.0	<0.10	3.36	—	129	<500	—	<0.200	6.93	7.57	<0.0156	—	<1.00	<0.500	—	8.61	83	8.26	18.1		
SB-1R (0-2')	04/21/21	HET	—	—	—	<1.0	<0.10	0.00	1.12	0.250	<0.435	—	7.1	—	—	<0.010	—	—	429	164	—	—	—	—	—	—	—	—	—	—	36.89	8.14	20		
SB-1 (8-10')	08/10/20	Approach	—	<4.00	—	0.692	2.05	5.59	2.02	<0.820	5.62	—	13.6	—	—	<0.10	2.98	—	2380	5200	—	<0.200	12	6.91	<0.0147	—	<1.00	<0.500	—	10.6	57.8	7.96	17.6		
SB-1R (8-10')	04/21/21	Approach	—	<4.00	—	0.864	3.13	4.28	1.82	0.839	4.94	—	14.6	—	—	<0.10	4.15	—	1650	<500	0.43	<0.200	13.3	6.19	0.0239	—	<1.00	<0.500	—	11.1	70.1	8.58	18.3		
SB-1R (8-10')	04/21/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	376	<1.0	—	—	—	—	—	—	—	—	—	—	—	—	—		
SB-1 (14-16')	08/10/20	Approach	—	31.4	—	0.270	5.54	2.35	<0.500	<0.820	2.35	—	15.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	75.3	—	21.3			
SB-2 (4-6')	08/11/20	Approach	—	<4.00	—	0.552	3.01	8.64	0.764	<0.820	5.34	—	13.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	56.6	—	23.1			
SB-2R (8-10)	06/20/23	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	872	—	—	—	—	—	—	—	—	—	—	—	—	—	22.7			
SB-2R (8-10)	06/20/23	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	29.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SB-2 (10-12')	08/11/20	Approach	—	26.2	—	0.733	2.50	5.81	2.24	<0.820	6.15	—	12.7	—																					

Soil Analytical Summary - 29B Analyses (LDNR Serial No. 240035)																																	
Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC 42nd Judicial District Court, Docket No. 81488, Division "B" Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West DeSoto Parish, Louisiana LDNR OC Legacy File No. 042-003 HET Project No. 8070.00																																	
Table 5 Page 2 of 2																																	
Sample ID / Depth	Sample Date	Sampler	Salinity														Metals ⁶														Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Bicarbonate (as CaCO3)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Nickel	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	2320B	9056	29B	6010D	1312	6010D	29B	1312	6010D	6010D	6010D	7471A	6010D	6010D	6010D	6010D	6010D	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	mg/Kg	mg/Kg	%	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	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	'6-9	N/A	
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A	
MW-2 (0-2')	10/25/21	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	6.87	—	60.2	<500	—	<0.100	16	13.2	0.0142	—	<0.500	<0.250	—	19.2	—	—	—	
MW-2 (0-2')	10/25/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	2.7	—	62.7	120	—	<0.50	9.0	7.1	<0.077	—	<1.0	<1.0	—	22.4	—	—	13.8	
MW-2 (2-4')	10/25/21	Approach	—	—	—	0.261	2.78	3.00	0.613	<0.410	1.66	—	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	45	4.59	—	
MW-2 (2-4')	10/25/21	HET	—	—	—	0.0969	3.68	0.764	8.90	9.75	2.32	—	13.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34.59	4.95	16.4	
MW-2 (8-10')	10/25/21	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	1.4	—	37.5	<500	—	<0.100	5.69	6.15	<0.0145	—	<0.500	<0.250	—	5.56	35.9	6.94	—	
MW-2 (8-10')	10/25/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	1.5	—	34	<100	—	<0.50	4.5	6.00	<0.069	—	<1.0	<1.0	—	6.5	—	—	17.1	
MW-2 (14-16')	10/25/21	Approach	—	—	—	0.596	—	4.70	0.532	0.589	3.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	45.6	—	—	
MW-2 (14-16')	10/25/21	HET	—	—	—	0.13	-0.298	0.286	7.50	8.13	0.796	—	8.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31.15	—	22.5	
MW-3 (0-2')	10/26/21	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	3.11	—	48.2	<500	—	<0.100	8.38	6.84	<0.0141	—	<0.500	<0.250	—	19	—	—	—	
MW-3 (0-2')	10/26/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	3.6	—	95.8	<100	—	<0.50	9.4	6.9	<0.071	—	<1.0	<1.0	—	25.8	—	—	14.3	
MW-3 (2-4')	10/26/21	Approach	—	—	—	0.606	2.4	4.24	1.23	0.494	3.94	—	12.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	62.1	7.89	—	
MW-3 (2-4')	10/26/21	HET	—	—	—	0.281	5.07	2.39	1.18	0.406	2.12	—	14.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.97	8.02	14.2	
MW-3 (8-10')	10/26/21	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	1.45	—	27.7	<500	—	<0.100	6.74	3.86	<0.0155	—	<0.500	<0.250	—	7.49	44.1	4.94	—	
MW-3 (8-10')	10/26/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	1.6	—	52.9	<100	—	<0.48	8.3	3.6	<0.077	—	<0.96	<0.96	—	6.4	—	4.74	14.1	
MW-3 (22-24')	10/26/21	Approach	—	—	—	0.138	6.29	0.782	<0.250	<0.410	0.782	—	23.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	94.9	—	—	
MW-3 (22-24')	10/26/21	HET	—	—	—	0.336	12	1.38	45.5	51.6	9.57	—	12.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	47.22	—	19.1	
Maximum	N/A	N/A	—	503	—	2.36	12	12.2	45.5	51.6	20.0	—	23.3	—	<10.0	<0.10	6.87	—	2380	5200	0.43	<0.50	16	13.2	0.0289	—	<1.0	<1.0	—	25.8	94.9	8.58	28.7
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	'6-9	N/A
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A	

1 - LDNR Statewide Order 29-B standards for Upland Criteria listed for reference purposes only
 2 - RECAP Non-Industrial Screening Standards (lowest of Soil_{SSH} and Soil_{SSGW}) per Table 1 of RECAP for comparison purposes only
 3 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{ini} only) per Table 2 of RECAP listed for comparison purposes only
 4 - SPLP standard determined by EPA Water Advisory Limit or LDEQ RECAP Groundwater Screening Standard multiplied by a default attenuation factor of 20 in accordance with LDEQ RECAP guidelines
 5 - HET Calcium, Magnesium, and Sodium values reported in mg/L and converted to meq/L
 6 - HET and Approach metal results reported in wet weight
 mg/Kg - milligrams per kilogram equivalent to parts per million (ppm)
 mmhos/cm - milli mohs per centimeter
 mg/L - milligrams per liter
 meq/L - milliequivalents per liter
 mmhos/cm - milli mohs per centimeter
 EC - Electrical Conductivity
 ESP - Exchangeable Sodium Percentage
 SAR - Sodium Adsorption Ratio
 — Not Analyzed
 N/A - Not Applicable

Soil Analytical Summary - (LDNR Serial No. 240035)																															
Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC 42nd Judicial District Court, Docket No. 81488, Division "B" Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West DeSoto Parish, Louisiana LDNR OC Legacy File No. 042-003 HET Project No. 8070.00																															
Table 6 Page 1 of 1																															
Sample ID / Depth (feet)	Sample Date	Sampler	TPH			VPH			EPH								PAH														
			TPH-GRO (C6-C10)	TPH-DRO (C10-C28)	TPH-ORO (>C28)	C6-C8 Aliphatics	C8-C10 Aliphatics	C8-C10 Aromatics	C10-C12 Aliphatics	C10-C12 Aromatics	C12-C16 Aliphatics	C12-C16 Aromatics	C16-C21 Aromatics	C16-C35 Aliphatics	C21-C35 Aromatics	2-Methyl-naphthalene	Ace-naphthene	Ace-naphthylene	Anthracene	Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluor-anthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phen-anthrene	Pyrene
			8015B	8015B	8015B	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B
			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-1R (0-2')	04/21/21	Approach	—	<3.33	3.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-1 (8-10')	08/10/20	Approach	—	83.8	<33.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-1R (8-10')	04/21/21	Approach	—	295	49.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-1RR (8-10')	07/22/21	HET	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.2	<8.9	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-1RR (8-10')	07/22/21	Approach	<9.17	178	77.6	—	—	—	<2.00	2.37	9.81	4.61	<2.00	12.3	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-3R (0-2')	04/21/21	Approach	—	<3.33	6.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-3 (2-4')	08/11/20	Approach	—	106	<33.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-3R (2-4')	04/21/21	Approach	—	85.2	<33.3	<2.50	<4.99	<3.33	3.83	1.96	66.6	5.81	3.35	219	3.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-3R (2-4')	04/21/21	HET	—	—	—	<4.0	14	<3.6	41.5	<3.7	300	<8.9	7.87	173	1.46	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-2 (2-4')	10/25/21	Approach	—	9.94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-2 (2-4')	10/25/21	HET	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<8.0	<8.7	<5.3	<5.1	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-2 (8-10')	10/25/21	Approach	—	30.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-2 (8-10')	10/25/21	HET	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<7.9	<8.6	<5.2	<5.0	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-3 (2-4')	10/26/21	Approach	—	70.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-3 (2-4')	10/26/21	HET	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<8.0	<8.7	<5.3	<5.1	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-3 (8-10')	10/26/21	Approach	—	<3.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-3 (8-10')	10/26/21	HET	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.2	<8.9	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Maximum	N/A	N/A	<9.17	295	77.6	<4.0	14	<3.6	41.5	2.37	300	5.81	7.87	219	3.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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 - RECAP Non-Industrial Screening Standards (lowest of Soil_{SSW} and Soil_{SSGW}) per Table 1 of RECAP for comparison purposes only
2 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{NI only}) per Table 2 of RECAP listed for comparison purposes only
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 - 29B Analyses (LDNR Serial No. 240037)																																	
Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC 42nd Judicial District Court, Docket No. 81488, Division "B" Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West DeSoto Parish, Louisiana LDNR OC Legacy File No. 042-003 HET Project No. 8070.00																																	
Table 7 Page 2 of 2																																	
Sample ID / Depth	Sample Date	Sampler	Salinity														Metals ⁶														Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Bicarbonate (as CaCO3)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Nickel	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	2320B	9056	29B	6010D	1312	6010D	29B	1312	6010D	6010D	6010D	7471A	6010D	6010D	6010D	6010D	6010D	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	mg/Kg	mg/Kg	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	'6-9	N/A
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A
MW-3 (0-2')	10/27/21	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.15	—	31.7	<500	—	<0.100	9.88	5.17	0.0164	—	<0.500	<0.250	—	6.3	—	—	—
MW-3 (0-2')	10/27/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.8	—	41.5	200	—	<0.50	11.5	6.6	<0.077	—	<1.0	<1.0	—	8.2	—	—	13.4
MW-3 (4-6')	10/28/21	Approach	—	—	—	0.175	0.62	0.882	0.796	<0.410	0.557	—	11.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53.7	—	—
MW-3 (4-6')	10/28/21	HET	—	—	—	<1.0	0.777	4.53	0.130	<0.167	1.62	—	22.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	44.68	—	15.9
MW-3 (6-8')	10/28/21	Approach	—	—	—	0.163	1.54	2.41	0.403	<0.410	1.08	—	12	—	—	—	2.79	—	38.2	<500	—	<0.100	11.4	6.07	<0.0156	—	<0.500	<0.250	—	7.42	57.2	—	—
MW-3 (6-8')	10/28/21	HET	—	—	—	<1.0	1.65	2.57	0.217	0.248	1.23	—	21.2	—	—	—	3.1	—	38.9	283	—	<0.50	12.5	7.5	<0.080	—	<1.0	<1.0	—	8.8	41.63	—	15.2
MW-3 (8-10')	10/28/21	Approach	—	—	—	0.154	1.97	0.943	<0.250	<0.410	0.943	—	9	—	—	—	1.25	—	35.7	<500	—	<0.100	5.72	4.68	0.0193	—	<0.500	<0.250	—	6.41	39.8	4.96	—
MW-3 (8-10')	10/28/21	HET	—	—	—	<1.0	2.82	7.41	<0.10	<0.167	1.02	—	17.4	—	—	—	2.3	—	43.5	340	—	<0.50	9.5	6.9	<0.077	—	<1.0	<1.0	—	8.1	38.11	4.75	12.8
MW-3 (10-12')	10/28/21	Approach	—	—	—	0.533	12.9	4.06	<0.250	<0.410	4.06	—	6.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	33.8	—	—
MW-3 (10-12')	10/28/21	HET	—	—	—	<1.0	10.8	4.72	5.25	8.58	12.3	—	15.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27	—	12.3
MW-3 (14-16')	10/28/21	Approach	—	—	—	0.535	67	11.2	0.263	<0.410	4.07	—	8.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	59.5	—	—
MW-3 (14-16')	10/28/21	HET	—	—	—	<1.0	5.12	6.46	16.1	24.8	29.0	—	37.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34.46	—	12.4
Maximum	N/A	N/A	—	101	0.458	5.92	67	54.1	28.2	24.8	48.6	99.1	37.1	—	—	<0.10	5.67	—	1920	12600	—	0.212	14.6	8.74	0.0437	—	<1.00	<1.0	—	33.7	104	9.38	57.7
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	'6-9	N/A
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A

1 - LDNR Statewide Order 29-B standards for Upland Criteria listed for reference purposes only
2 - RECAP Non-Industrial Screening Standards (lowest of Soil_{SSNI} and Soil_{SSGW}) per Table 1 of RECAP for comparison purposes only
3 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{NI only}) per Table 2 of RECAP listed for comparison purposes only
4 - SPLP standard determined by EPA Water Advisory Limit or LDEQ RECAP Groundwater Screening Standard multiplied by a default attenuation factor of 20 in accordance with LDEQ RECAP guidelines
5 - HET Calcium, Magnesium, and Sodium values reported in mg/L and converted to meq/L
6 - HET and Approach metal results reported in wet weight
mg/Kg - milligrams per kilogram equivalent to parts per million (ppm)
mmhos/cm - milli mohs per centimeter
mg/L - milligrams per liter
meq/L - milliequivalents per liter
mmhos/cm - milli mohs per centimeter
EC - Electrical Conductivity
ESP - Exchangeable Sodium Percentage
SAR - Sodium Adsorption Ratio
— Not Analyzed
N/A - Not Applicable

Soil Analytical Summary - RECAP Analyses (LDNR Serial No. 240037)																																						
Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC 42nd Judicial District Court, Docket No. 81488, Division "B" Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West DeSoto Parish, Louisiana LDNR OC Legacy File No. 042-003 HET Project No. 8070.00																																						
Table 8 Page 1 of 1																																						
Sample ID / Depth (feet)	Sample Date	Sampler	BTEX				VOC ³	TPH			VPH			EPH								PAH																
			Benzene	Toluene	Ethyl-benzene	Total Xylenes	Acetone	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		
			8260B	8260B	8260B	8260B	8260B	8015B	8015B	8015B	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	
			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	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
LDEQ RECAP SS ¹	10/20/03	N/A	0.051	20	19	18	1.5	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	1.5	680	1600	180	1700	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-1 (4-6')	08/12/20	Approach	—	—	—	—	—	—	<3.33	7.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SB-1 (6-8')	08/12/20	Approach	—	—	—	—	—	—	203	68.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SB-1R (6-8')	04/20/21	Approach	—	—	—	—	—	—	32	6.64	<2.39	<4.78	<3.18	2.24	1.71	11.2	4.2	2.86	18.1	2.93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-1R (6-8')	04/20/21	HET	—	—	—	—	—	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<8.0	<8.7	<5.3	7.47	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-1R (8-10')	04/20/21	Approach	—	—	—	—	—	—	34.3	3.76	<2.86	<5.71	<3.81	2.49	2.49	11.5	5.46	3.31	23	4.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-1R (8-10')	04/20/21	HET	—	—	—	—	—	—	—	—	<3.9	<3.0	<3.5	5.97	3.85	44.4	16.9	23.2	90.2	3.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-1R (12-14')	04/20/21	Approach	—	—	—	—	—	—	—	—	<2.53	<5.06	<3.37	<2.00	<1.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-1R (12-14')	04/20/21	HET	—	—	—	—	—	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.1	<8.8	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-2 (8-10')	08/12/20	Approach	<0.0020	<0.0040	<0.0020	<0.0020	0.0962	31.7	45.3	19.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-2R (8-10')	04/20/21	Approach	—	—	—	—	—	—	280	172	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-2RR (8-10')	07/22/21	HET	—	—	—	—	—	—	—	—	<3.9	<3.1	<3.5	<3.3	<3.6	<8.1	<8.8	<5.3	<5.1	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-2RR (8-10')	07/22/21	Approach	—	—	—	—	—	10.9	138	53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-2 (4-6')	10/27/21	Approach	—	—	—	—	—	—	4.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
MW-2 (4-6')	10/27/21	HET	—	—	—	—	—	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<8.0	<8.7	<5.3	<5.1	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-2 (6-8')	10/27/21	Approach	—	—	—	—	—	—	<3.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
MW-2 (6-8')	10/27/21	HET	—	—	—	—	—	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.2	<8.9	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-3 (6-8')	10/28/21	Approach	—	—	—	—	—	—	<3.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-3 (6-8')	10/28/21	HET	—	—	—	—	—	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.1	<8.8	<5.4	5.65	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-3 (8-10')	10/28/21	Approach	—	—	—	—	—	—	5.29	13.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-3 (8-10')	10/28/21	HET	—	—	—	—	—	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<8.0	<8.7	<5.3	<5.1	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-3 (10-12')	10/28/21	Approach	—	—	—	—	—	—	<3.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-3 (10-12')	10/28/21	HET	—	—	—	—	—	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<7.9	<8.6	<5.2	<5.0	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Maximum	N/A	N/A	<0.0020	<0.0040	<0.0020	<0.0020	0.0962	31.7	280	172	<4.0	<5.71	<3.81	5.97	3.85	44.4	16.9	23.2	90.2	4.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
LDEQ RECAP SS ¹	10/20/03	N/A	0.051	20	19	18	1.5	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	1.5	680	1600	180	1700	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 - RECAP Non-Industrial Screening Standards (lowest of Soil_{SSW} and Soil_{SSOW}) per Table 1 of RECAP for comparison purposes only
2 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{NI OW}) per Table 2 of RECAP listed for comparison purposes only
3 - Remaining VOC compounds not listed in the table are below laboratory standards
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
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 - 29B Analyses (LDNR Serial No. 240833)

Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC
42nd Judicial District Court, Docket No. 81488, Division "B"
Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields
Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West
DeSoto Parish, Louisiana
LDNR OC Legacy File No. 042-003
HET Project No. 8070.00

Table 9
Page 1 of 2

Sample ID / Depth	Sample Date	Sampler	Salinity														Metals ⁶														Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Bicarbonate (as CaCO3)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Nickel	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	2320B	9056	29B	6010D	1312	6010D	29B	1312	6010D	6010D	6010D	7471A	6010D	6010D	6010D	6010D	6010D	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	mg/Kg	mg/Kg	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	6-9	N/A
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A
LDEQ RECAP MO-1 Soil _{ini} ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A
SB-1 (2-4')	09/14/20	Approach	—	15.1	—	0.306	1.57	5.53	—	—	—	—	15.9	—	—	—	4.82	—	79.8	<500	—	<0.200	18.9	8.54	0.0211	—	<1.00	<0.500	—	22.2	50.5	5.98	20.2
SB-1 (4-6')	09/14/20	Approach	—	21.1	—	0.262	1.93	7.92	—	—	—	—	13.7	—	—	—	2.74	—	69.4	<500	—	<0.200	13.8	8.35	0.0173	—	<1.00	<0.500	—	15.1	53.9	4.21	19.7
SB-2 (2-4')	09/14/20	Approach	—	35.7	—	3.61	2.80	3.46	—	—	—	—	19.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77	7.48	17.7	
SB-2 (12-14')	09/18/20	Approach	—	100	—	2.01	6.60	8.76	—	—	—	—	25.1	—	—	—	4.65	—	117	748	—	<0.200	15.6	8.33	0.0226	—	<1.00	<0.500	—	53.3	120	6.08	27.6
SB-3 (8-10')	09/15/20	Approach	—	15.8	—	0.271	3.62	9.37	—	—	—	—	18.2	—	—	—	3.73	—	27.8	<500	—	<0.200	10.4	9.16	<0.0140	—	<1.00	<0.500	—	6.29	76.3	5.51	19.2
SB-3 (12-14')	09/18/20	Approach	—	48.7	—	1.62	11.6	11.2	—	—	—	—	27.6	—	—	—	6.79	—	146	840	—	0.294	42.3	10.9	<0.0156	—	<1.00	<0.500	—	73.8	99.9	7.72	26.3
MW-1 (23-25')	09/10/20	Approach	—	5.78	—	0.184	5.94	5.94	—	—	—	—	15.9	—	—	—	2.22	—	72.8	<500	—	<0.200	9.31	5.43	0.0308	—	<1.00	<0.500	—	25.5	63.4	5.59	23.8
MW-2 (15-20')	09/09/20	Approach	—	46.8	—	0.883	2.36	3.87	—	—	—	—	17.9	—	—	—	4.10	—	86.1	<500	—	0.239	15.2	8.87	0.0287	—	<1.00	0.616	—	86.4	63.7	6.39	26.4
HET MW-4 (2-4')	07/22/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.80	—	—	<100	—	<0.48	12.2	7.9	<0.074	2.0	<0.96	<0.96	—	7.9	—	—	—
HET MW-4 (2-4')	07/22/21	Approach	—	—	—	0.044	0.671	0.241	<0.250	<0.410	0.241	—	19.8	—	—	—	6.26	—	25.9	<500	—	<0.200	9.4	7.96	0.0577	—	<1.00	<0.500	—	6.16	87.7	6.24	18.5
HET MW-4 (8-10')	07/22/21	HET	—	—	—	<1.0	14.7	8.19	0.505	0.7575	6.48	—	10.2	—	—	—	7.90	—	—	174	—	<0.50	12.4	11.8	<0.071	3.4	1.2	<1.0	—	20.5	61.9	4.44	25.6
HET MW-4 (8-10')	07/22/21	Approach	—	—	—	0.549	4.56	3.61	<0.250	<0.410	3.61	—	22.7	—	—	—	1.50	—	79.7	<500	—	<0.200	4.58	8.4	0.0218	—	<1.00	<0.500	—	15	112	5.31	19.5
HET MW-4 (18-20')	07/22/21	HET	—	—	—	<1.0	5.85	2.41	1.20	1.23	2.65	—	10.6	—	—	—	5.10	—	—	343	—	<0.50	13.2	10.2	<0.077	—	<1.0	<1.0	—	27.3	60.26	5.10	23.1
HET MW-4 (18-20')	07/22/21	Approach	—	—	—	0.231	2.00	1.22	<0.250	<0.410	1.22	—	21.2	—	—	—	3.09	—	128	<500	—	0.851	16	8.37	0.0447	—	<1.00	<0.500	—	86.5	97.1	5.66	21.6
HET MW-4 (20-22')	07/22/21	HET	—	—	—	<1.0	5.59	0.792	3.54	3.03	1.43	—	9.7	—	—	—	2.70	—	—	117	—	<0.49	14.3	7.4	<0.077	27.2	<0.98	<0.98	—	97.3	47.83	7.10	20.2
HET MW-4 (20-22')	07/22/21	Approach	—	—	—	0.377	1.98	2.54	0.482	0.51	1.79	—	18.3	—	—	—	3.03	—	34.7	<500	—	<0.200	11.6	6.3	0.0356	—	<1.00	<0.500	—	85	73.9	6.53	19.5
HET MW-5 (8-10')	07/22/21	HET	—	—	—	<1.0	7.35	5.50	0.142	0.218	2.317	—	11.7	—	—	—	6.60	—	—	<100	—	<0.50	9.2	9.3	<0.071	3.3	<1.0	<1.0	—	11.2	60.16	4.72	28.1
HET MW-5 (8-10')	07/22/21	Approach	—	—	—	0.402	2.59	2.47	<0.250	<0.410	2.47	—	18.6	—	—	—	2.29	—	17.4	<500	—	<0.200	10.5	10.7	0.0587	—	<1.00	<0.500	—	8.8	57.4	5.37	26.3
HET MW-5 (12-14')	07/22/21	HET	—	—	—	<1.0	3.80	3.72	0.232	0.337	1.97	—	13.7	—	—	—	1.80	—	—	<100	—	<0.50	8.7	8	<0.077	2.4	<1.0	<1.0	—	9.6	50.98	4.65	28.6
HET MW-5 (12-14')	07/22/21	Approach	—	—	—	0.257	1.64	1.46	<0.250	<0.410	1.46	—	14.3	—	—	—	<1.00	—	39.9	<500	—	<0.200	7.26	7.22	0.106	—	<1.00	<0.500	—	14.2	51.1	5.49	25.4
HET MW-5 (20-22')	07/22/21	HET	—	—	—	<1.0	5.81	2.86	0.975	0.975	2.81	—	8.6	—	—	—	2.10	—	—	<100	—	<0.50	7.8	4.5	<0.069	2.2	<1.0	<1.0	—	11.5	48.3	5.84	23.6
HET MW-5 (20-22')	07/22/21	Approach	—	—	—	0.212	2.39	1.21	<0.250	<0.410	1.21	—	11.1	—	—	—	2.66	—	22.5	<500	—	0.267	6.28	5.29	0.0179	—	<1.00	<0.500	—	64.7	55.6	6.02	22
MW-6 (4-6')	10/28/21	Approach	—	—	—	2.31	13.5	23.0	1.29	<1.64	18.5	—	12.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53.1	6.95	—	
MW-6 (4-6')	10/28/21	HET	—	—	—	1.46	11.1	5.19	6.90	5.85	13.0	—	20.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	46.91	6.70	17	
MW-6 (10-12')	10/28/21	Approach	—	—	—	0.501	5.73	3.77	<0.250	<0.410	3.77	—	21.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.9	7.16	—	
MW-6 (10-12')	10/28/21	HET	—	—	—	<1.0	4.26	1.47	21.1	14.8	6.22	—	17.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	55.62	7.13	23	

Soil Analytical Summary - 29B Analyses (LDNR Serial No. 240833)

Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC
42nd Judicial District Court, Docket No. 81488, Division "B"
Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields
Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West
DeSoto Parish, Louisiana
LDNR OC Legacy File No. 042-003
HET Project No. 8070.00

Table 9
Page 2 of 2

Sample ID / Depth	Sample Date	Sampler	Salinity														Metals ⁶																Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Bicarbonate (as CaCO3)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Nickel	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture		
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	2320B	9056	29B	6010D	1312	6010D	29B	1312	6010D	6010D	6010D	7471A	6010D	6010D	6010D	6010D	6010D	29B	29B	2540G		
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	mg/Kg	mg/Kg	%	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	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	'6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soil _{ini} ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A		
MW-7 (10-12')	10/28/21	Approach	—	—	—	1.69	<0.10	5.81	2.89	2.44	9.48	—	22.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	99.3	4.96	—			
MW-7 (10-12')	10/28/21	HET	—	—	—	1.86	6.11	5.58	4.97	2.91	11.0	—	14.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	62.18	4.78	20			
MW-7 (14-16')	10/28/21	Approach	—	—	—	0.376	4.54	2.7	<0.250	<0.410	2.7	—	23.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.2	6.09	—			
MW-7 (14-16')	10/28/21	HET	—	—	—	<1.0	3.31	1.19	32.3	26.3	6.43	—	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	56.6	5.85	19.6			
Maximum	N/A	N/A	—	100	—	3.61	14.7	23.0	32.3	26.3	18.5	—	27.6	—	—	—	7.9	—	146	840	—	0.851	42.3	11.8	0.106	27.2	1.2	0.616	—	97.3	120	7.72	28.6		
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	'6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soil _{ini} ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A		

1 - LDNR Statewide Order 29-B standards for Upland Criteria listed for reference purposes only
2 - RECAP Non-Industrial Screening Standards (lowest of Soil_{SSNI} and Soil_{SSGW}) per Table 1 of RECAP for comparison purposes only
3 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{NI only}) per Table 2 of RECAP listed for comparison purposes only
4 - SPLP standard determined by EPA Water Advisory Limit or LDEQ RECAP Groundwater Screening Standard multiplied by a default attenuation factor of 20 in accordance with LDEQ RECAP guidelines
5 - HET Calcium, Magnesium, and Sodium values reported in mg/L and converted to meq/L
6 - HET and Approach metal results reported in wet weight
mg/Kg - milligrams per kilogram equivalent to parts per million (ppm)
mmhos/cm - milli mohs per centimeter
mg/L - milligrams per liter
meq/L - milliequivalents per liter
mmhos/cm - milli mohs per centimeter
EC - Electrical Conductivity
ESP - Exchangeable Sodium Percentage
SAR - Sodium Adsorption Ratio
— Not Analyzed
N/A - Not Applicable

Soil Analytical Summary - RECAP Analyses (LDNR Serial No. 240833)																																
Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC 42nd Judicial District Court, Docket No. 81488, Division "B" Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West DeSoto Parish, Louisiana LDNR OC Legacy File No. 042-003 HET Project No. 8070.00																																
Table 10 Page 1 of 1																																
Sample ID / Depth (feet)	Sample Date	Sampler	TPH			VPH			EPH							PAH																
			TPH-GRO (C6-C10)	TPH-DRO (C10-C28)	TPH-ORO (>C28)	C6-C8 Aliphatics	C8-C10 Aliphatics	C8-C10 Aromatics	C10-C12 Aliphatics	C10-C12 Aromatics	C12-C16 Aliphatics	C12-C16 Aromatics	C16-C21 Aromatics	C16-C35 Aliphatics	C21-C35 Aromatics	2-Methyl- naphthalene	Ace- naphthene	Ace- naphthylene	Anthracene	Benzo(a)- anthracene	Benzo(a)- pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluor-anthene	Fluorene	Indeno (1,2,3- cd) pyrene	Naphthalene	Phen- anthrene	Pyrene	
			8015B	8015B	8015B	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B
			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 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-1 (2-4')	09/14/20	Approach	—	5.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-1 (4-6')	09/14/20	Approach	—	7.71	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-2 (0-2')	09/14/20	Approach	—	10.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-4 (2-4')	07/22/21	HET	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<8.0	<8.7	<5.3	<5.1	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-4 (20-22')	07/22/21	HET	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<8.1	<8.8	<5.3	<5.1	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-5 (12-14')	07/22/21	HET	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.2	<8.9	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-5 (14-16')	07/22/21	HET	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.2	<8.9	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-5 (20-22')	07/22/21	HET	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.1	<8.8	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Maximum	N/A	N/A	—	10.6	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.2	<8.9	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
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 - RECAP Non-Industrial Screening Standards (lowest of Soil_{SSM} and Soil_{SSGW}) per Table 1 of RECAP for comparison purposes only
2 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{NI only}) per Table 2 of RECAP listed for comparison purposes only
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 - 29B Analyses (LDNR Serial No. 239274)

Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC
42nd Judicial District Court, Docket No. 81488, Division "B"
Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields
Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West
DeSoto Parish, Louisiana
LDNR OC Legacy File No. 042-003
HET Project No. 8070.00

Table 1
Page 1 of 2

Sample ID / Depth	Sample Date	Sampler	Salinity														Metals ⁶														Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Bicarbonate (as CaCO3)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Nickel	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	2320B	9056	29B	6010D	1312	6010D	29B	1312	6010D	6010D	6010D	7471A	6010D	6010D	6010D	6010D	6010D	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	mg/Kg	mg/Kg	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	'6-9	N/A	
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A
LDEQ RECAP MO-1 Soilini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A	
SB-1 (14-16')	08/10/20	Approach	—	76.2	—	1.46	4.81	10.6	1.69	1.14	12.6	—	7.96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.5	—	18	
SB-1 (18-20')	08/10/20	Approach	—	109	—	2.02	2.22	18.1	1.4	1.03	20	—	5.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34.3	—	17	
SB-2R (0-2')	04/21/21	HET	—	—	—	<1.0	17.3	13.1	0.345	0.287	7.35	—	6.6	—	—	<0.010	—	—	49.4	129	—	—	—	—	—	—	—	—	—	35.84	6.21	18.1	
SB-2R (0-2')	04/21/21	Approach	—	17.4	—	0.818	10.7	12.7	0.228	0.188	5.79	—	11.2	—	41.1	<0.10	2.78	—	106	<500	—	<0.200	8.27	6.13	<0.0141	—	<1.00	<0.500	—	12.9	54.6	6.78	19.2
SB-2 (8-10')	08/10/20	Approach	—	145	—	1.81	34.2	19.0	1.51	<0.820	16.5	—	13.8	—	—	<0.10	6.52	—	2390	17100	—	<0.200	49	18.9	<0.0148	—	<1.00	<0.500	—	61.4	72	8.29	22
SB-2R (8-10')	04/21/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2700	6.90	—	—	—	—	—	—	—	—	—	—	—	—	
SB-2R (8-10')	04/21/21	Approach	—	254	—	1.95	20.3	18.2	0.934	0.418	15	—	16.2	—	—	<0.10	5.58	—	261	3770	<0.250	0.226	30.3	6.09	0.0173	—	<1.00	<0.500	—	46.5	78.7	8.38	26.2
B-1 (8-10)	06/19/23	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25.3	—	—	—	—	—	—	—	—	—	—	—	—	13.9	
B-1 (8-10)	06/19/23	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.9	—	—	—	—	—	—	—	—	—	—	—	—	—	
B-2 (8-10)	06/19/23	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34.4	—	—	—	—	—	—	—	—	—	—	—	—	14.5	
B-2 (8-10)	06/19/23	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	290	—	—	—	—	—	—	—	—	—	—	—	—	—	
B-3 (8-10)	06/19/23	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	39.6	—	—	—	—	—	—	—	—	—	—	—	—	14.4	
B-3 (8-10)	06/19/23	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22.1	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-1 (0-2')	07/20/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	1.90	—	—	<100	—	<0.50	7.5	5.2	<0.080	—	<1.0	<1.0	—	5.7	—	—	—	
HET MW-1 (0-2')	07/20/21	Approach	—	—	—	0.0570	0.505	0.300	<0.250	<0.410	0.3	—	9.83	—	—	—	3.28	—	34.3	<500	—	<0.200	10.6	9.32	0.0259	—	<1.00	<0.500	—	9.43	47.8	6.73	14.8
HET MW-1 (6-8')	07/20/21	HET	—	—	—	<1.0	31.0	5.88	12.0	19.3	23.2	—	11.6	—	—	—	4.40	—	—	291	—	<0.49	9.7	7.1	<0.074	—	<0.98	<0.98	—	17.7	69.27	5.45	17.6
HET MW-1 (6-8')	07/20/21	Approach	—	—	—	2.00	17.7	15.5	<0.500	<0.820	15.5	—	16.2	—	—	—	1.43	—	17.7	<500	—	<0.200	4.69	4.46	<0.0155	—	<1.00	<0.500	—	18.8	102	5.27	16.6
HET MW-1 (10-12')	07/20/21	HET	—	—	—	<1.0	30.5	6.28	14.7	20.1	26.0	—	10.5	—	—	—	1.20	—	—	172	—	<0.49	5.7	3.8	<0.069	—	<0.98	<0.98	—	10.4	38.2	6.69	18
HET MW-1 (10-12')	07/20/21	Approach	—	—	—	2.54	19.2	24.2	1.09	<0.820	17.9	—	11.4	—	—	—	<1.00	—	55	<500	—	<0.200	3.7	2.93	<0.0144	—	<1.00	<0.500	—	8.44	55.2	6.38	16.5
HET MW-1 (22-24')	07/20/21	HET	—	—	—	<1.0	4.09	1.27	21.4	16.6	5.52	—	13.7	—	—	—	7.10	—	—	184	—	<0.50	11.1	39	<0.080	—	<1.0	<1.0	—	24.3	37.71	7.16	24.5
HET MW-1 (22-24')	07/20/21	Approach	—	—	—	0.341	3.88	2.34	<0.500	<0.820	2.34	—	17	—	—	—	1.45	—	49.5	<500	—	<0.200	10.1	6.72	0.0388	—	<1.00	<0.500	—	19.6	55.9	7.03	23.8
MW-1 (26-30')	09/09/20	Approach	—	24.5	—	0.871	1.57	7.52	—	—	—	—	16.3	—	—	—	6.53	—	54.6	<500	—	0.442	11	7.94	0.0522	—	<1.00	1.28	—	45.9	60.3	7.70	22
HET MW-2 (13-15')	07/21/21	HET	—	—	—	<1.0	15.5	2.47	39.0	29.6	14.4	—	8.4	—	—	—	<1.0	—	—	<100	—	<0.50	3.4	2.6	<0.077	—	<1.0	<1.0	—	8.9	41.84	7.75	15.2
HET MW-2 (13-15')	07/21/21	Approach	—	—	—	0.246	9.62	1.59	<0.500	<0.820	1.59	—	10.1	—	—	—	2.27	—	25.4	<500	—	<0.200	2.49	4.11	0.056	—	<1.00	<0.500	—	12.5	55.4	6.77	13.1
HET MW-2 (14-16')	07/21/21	Approach	—	—	—	0.315	9.24	2.07	<0.500	<0.820	2.07	—	8.48	—	—	—	<1.00	—	21.7	<500	—	<0.200	2.85	3.18	<0.0157	—	<1.00	<0.500	—	8.28	48	6.51	15.8
HET MW-2 (24-26')	07/21/21	HET	—	—	—	<1.0	3.06	1.98	1.74	1.21	2.40	—	10.8	—	—	—	2.00	—	—	<100	—	<0.50	4.9	3.0	<0.069	—	<1.0	<1.0	—	42.5	41.63	7.14	27.9
HET MW-2 (24-26')	07/21/21	Approach	—	—	—	0.369	1.40	1.94	0.798	0.564	1.6	—	7.7	—	—	—	3.00	—	25.7	<500	—	<0.200	7.54	5.49	0.0254	—	<1.00	<0.500	—	50.5	47.2	6.62	25.5

Soil Analytical Summary - 29B Analyses (LDNR Serial No. 239274)

Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC
42nd Judicial District Court, Docket No. 81488, Division "B"
Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields
Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West
DeSoto Parish, Louisiana
LDNR OC Legacy File No. 042-003
HET Project No. 8070.00

Table 1
Page 2 of 2

Sample ID / Depth	Sample Date	Sampler	Salinity														Metals ⁶														Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Bicarbonate (as CaCO3)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Nickel	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	2320B	9056	29B	6010D	1312	6010D	29B	1312	6010D	6010D	6010D	7471A	6010D	6010D	6010D	6010D	6010D	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	mg/Kg	mg/Kg	%	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	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	ˆ6-9	N/A
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A
LDEQ RECAP MO-1 Soilini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A
HET MW-3 (0-2')	07/21/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.60	—	—	<100	—	<0.45	4.00	5.2	<0.074	—	<0.91	<0.91	—	6.5	—	—	—
HET MW-3 (0-2')	07/21/21	Approach	—	—	—	0.216	0.241	1.36	<0.500	<0.820	1.36	—	11	—	—	—	1.19	—	20.8	<500	—	<0.200	4.3	3.91	0.0275	—	<1.00	<0.500	—	4.4	40.8	6.57	13
HET MW-3 (6-8')	07/21/21	HET	—	—	—	<1.0	39.1	6.05	3.46	5.08	12.4	—	9.4	—	—	—	1.30	—	—	158	—	<0.50	5.8	4.9	<0.074	—	<1.0	<1.0	—	11.7	49.7	4.90	15.1
HET MW-3 (6-8')	07/21/21	Approach	—	—	—	2.02	19.4	15.3	<0.500	<0.820	15.3	—	13.4	—	—	—	<1.00	—	109	558	—	<0.200	4.04	3.94	<0.0143	—	<1.00	<0.500	—	8.95	83.1	5.78	13.9
HET MW-3 (10-12')	07/21/21	HET	—	—	—	<1.0	42.9	4.01	13.4	16.2	15.3	—	9.7	—	—	—	1.50	—	—	<100	—	<0.48	6.3	3.3	<0.069	—	<0.96	<0.96	—	14.4	48.41	6.24	15
HET MW-3 (10-12')	07/21/21	Approach	—	—	—	0.271	20.8	1.72	<0.500	<0.820	1.72	—	15.8	—	—	—	1.61	—	36.1	<500	—	<0.200	4.5	3.01	<0.0152	—	<1.00	<0.500	—	13.9	85.5	6.50	15.8
HET MW-3 (16-18')	07/21/21	HET	—	—	—	<1.0	9.88	1.20	47.6	30.6	7.48	—	8.4	—	—	—	8.10	—	—	<100	—	<0.47	9.5	4.3	0.076	—	<0.94	<0.94	—	26.3	49.05	6.54	23.8
HET MW-3 (16-18')	07/21/21	Approach	—	—	—	0.152	5.18	0.893	<0.500	<0.820	0.893	—	18.6	—	—	—	3.19	—	58.2	<500	—	<0.200	8.7	7.05	0.0296	—	<1.00	<0.500	—	12.1	74.9	6.73	19.9
HET MW-3 (18-20')	07/21/21	HET	—	—	—	<1.0	6.45	1.24	79.5	43.9	9.74	—	10.7	—	—	—	9.20	—	—	<100	—	0.82	8.3	5.4	<0.074	—	1.4	<0.98	—	51.6	42.45	6.77	21
HET MW-3 (18-20')	07/21/21	Approach	—	—	—	0.175	4.02	1.27	<0.500	<0.820	1.27	—	17.5	—	—	—	5.82	—	73.2	<500	—	2.41	9.13	6.26	0.0357	—	<1.00	<0.500	—	64.3	48.4	7.38	22
Maximum	N/A	N/A	—	254	—	2.54	42.9	24.2	79.5	43.9	26.0	—	18.6	—	41.1	<0.10	9.20	—	2390	17100	6.90	2.41	49.0	39.0	0.0760	—	1.4	1.28	—	64.3	102	8.38	27.9
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	ˆ6-9	N/A
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A
LDEQ RECAP MO-1 Soilini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A

1 - LDNR Statewide Order 29-B standards for Upland Criteria listed for reference purposes only
2 - RECAP Non-Industrial Screening Standards (lowest of Soil_{SSHi} and Soil_{SSGW}) per Table 1 of RECAP for comparison purposes only
3 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{ri only}) per Table 2 of RECAP listed for comparison purposes only
4 - SPLP standard determined by EPA Water Advisory Limit or LDEQ RECAP Groundwater Screening Standard multiplied by a default attenuation factor of 20 in accordance with LDEQ RECAP guidelines
5 - HET Calcium, Magnesium, and Sodium values reported in mg/L and converted to meq/L
6 - HET and Approach metal results reported in wet weight
mg/Kg - milligrams per kilogram equivalent to parts per million (ppm)
mmhos/cm - milli mohs per centimeter
mg/L - milligrams per liter
meq/L - milliequivalents per liter
mmhos/cm - milli mohs per centimeter
EC - Electrical Conductivity
ESP - Exchangeable Sodium Percentage
SAR - Sodium Adsorption Ratio
— Not Analyzed
N/A - Not Applicable

Soil Analytical Summary - RECAP Analyses (LDNR Serial No. 239274)																																
Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC 42nd Judicial District Court, Docket No. 81488, Division "B" Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West DeSoto Parish, Louisiana LDNR OC Legacy File No. 042-003 HET Project No. 8070.00																																
Table 2 Page 1 of 1																																
Sample ID / Depth (feet)	Sample Date	Sampler	TPH			VPH			EPH							PAH																
			TPH-GRO (C6-C10)	TPH-DRO (C10-C28)	TPH-ORO (>C28)	C6-C8 Aliphatics	C8-C10 Aliphatics	C8-C10 Aromatics	C10-C12 Aliphatics	C10-C12 Aromatics	C12-C16 Aliphatics	C12-C16 Aromatics	C16-C21 Aromatics	C16-C35 Aliphatics	C21-C35 Aromatics	2-Methyl- naphthalene	Ace- naphthene	Ace- naphthylene	Anthracene	Benzo(a)- anthracene	Benzo(a)- pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluor-anthene	Fluorene	Indeno (1,2,3- cd) pyrene	Naphthalene	Phen- anthrene	Pyrene	
			8015B	8015B	8015B	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B
			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 _{ini} 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-2R (0-2')	04/21/21	Approach	—	<3.33	5.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-2 (8-10')	08/10/20	Approach	—	4.17	10.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-2R (8-10')	04/21/21	Approach	—	<3.33	6.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-1 (0-2')	07/20/21	HET	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.2	<8.9	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-1 (22-24')	07/20/21	HET	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.1	<8.8	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-2 (13-15')	07/21/21	HET	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.2	<8.9	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-2 (14-16')	07/21/21	HET	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<8.0	<8.7	<5.3	<5.1	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-2 (24-26')	07/21/21	HET	—	—	—	<3.8	<3.0	<3.5	<3.2	<3.6	<7.9	<8.5	<5.2	<5.0	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-3 (0-2')	07/21/21	HET	—	—	—	<3.9	<3.1	<3.5	<3.2	<3.6	<8.1	<8.8	<5.3	<5.1	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-3 (18-20')	07/21/21	HET	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<7.9	<8.6	<5.2	<5.0	4.96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Maximum	N/A	N/A	—	4.17	10.6	<4.0	<3.1	<3.6	<3.3	<3.7	<8.2	<8.9	<5.4	<5.2	4.96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
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 _{ini} 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 - RECAP Non-Industrial Screening Standards (lowest of Soil_{SSW} and Soil_{SSGW}) per Table 1 of RECAP for comparison purposes only
2 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{ini} only) per Table 2 of RECAP listed for comparison purposes only
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 - 29B Analyses (LDNR Serial No. 239592)																																	
Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC 42nd Judicial District Court, Docket No. 81488, Division "B" Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West DeSoto Parish, Louisiana LDNR OC Legacy File No. 042-003 HET Project No. 8070.00																																	
Table 3 Page 1 of 1																																	
Sample ID / Depth	Sample Date	Sampler	Salinity														Metals ⁶														Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Bicarbonate (as CaCO3)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Nickel	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	2320B	9056	29B	6010D	1312	6010D	29B	1312	6010D	6010D	6010D	7471A	6010D	6010D	6010D	6010D	6010D	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	mg/Kg	mg/Kg	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	'6-9	N/A
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A
LDEQ RECAP MO-1 Soilini ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A
SB-1 (10-12')	08/11/20	Approach	—	5.51	—	1.69	1.48	2.41	7.66	4.9	6.05	—	24.8	—	—	<0.10	12.1	—	267	930	—	<0.200	15.2	6.41	<0.0157	—	2.11	<0.500	—	49.7	69.9	7.39	23.1
SB-1R (10-12')	04/20/21	Approach	—	<4.00	—	0.259	6.58	7.51	0.111	<0.164	1.77	—	23.4	—	—	—	2.65	—	18.8	<500	—	<0.200	6.14	6.56	0.0466	—	<1.00	<0.500	—	12.4	67.3	6.51	20.8
SB-1R (10-12')	04/20/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.990	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-2 (8-10')	08/11/20	Approach	—	6.86	—	0.201	6.41	1.87	<0.500	<0.820	1.87	—	21.4	—	—	<0.10	<2.00	—	733	<500	—	<0.200	7.17	5.91	<0.0144	—	<1.00	<0.500	—	6.58	62.8	6.72	26.3
SB-2R (8-10')	04/20/21	Approach	—	<4.00	—	0.767	4.05	6.18	1.5	<0.410	5.35	—	11.7	—	—	—	4.85	—	1230	3490	—	<0.200	14	7.65	<0.0144	—	<1.00	<0.500	—	12.7	43.1	8.37	22.3
SB-2R (8-10')	04/20/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	756	—	—	—	—	—	—	—	—	—	—	—	—	—
SB-2R (8-10)	06/19/23	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	389	—	0.0863	—	—	—	—	—	—	—	—	—	—	—	24.3
SB-2R (8-10')	06/19/23	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	345	—	1.18	—	—	—	—	—	—	—	—	—	—	—	—
SB-2 (14-16')	08/11/20	Approach	—	110	—	0.727	3.28	11.5	0.489	<0.820	5.69	—	19.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	70.9	—	24.8
SB-3 (6-8')	08/12/20	Approach	—	9.72	—	0.426	0.994	1.48	2.08	<0.820	1.51	—	14.4	—	—	<0.10	7.15	—	330	<500	—	<0.200	9.6	6.26	0.0185	—	2.71	<0.500	—	17.6	46.9	7.45	21.9
SB-3 (14-16')	08/12/20	Approach	—	7.55	—	0.677	1.09	2.60	2.99	0.981	3.67	—	23.5	—	—	<0.10	2.08	—	65.6	<500	—	<0.200	8.24	10.5	0.376	—	<1.00	<0.500	—	17.7	66.9	7.20	25.4
B-1 (8-10)	06/19/23	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	132	—	—	—	—	—	—	—	—	—	—	—	—	—	19.8
B-1 (8-10)	06/19/23	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28	—	—	—	—	—	—	—	—	—	—	—	—	—	—
B-2 (8-10)	06/19/23	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	380	—	—	—	—	—	—	—	—	—	—	—	—	—	20.3
B-2 (8-10)	06/19/23	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	236	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-1 (23-28')	09/09/20	Approach	—	7.07	—	0.520	1.96	4.43	—	—	—	—	17.2	—	—	—	3.85	—	78.3	<500	—	<0.200	11.5	6.85	0.0193	—	<1.00	<0.500	—	60	58.9	7.53	23.5
MW-2 (5-10')	10/26/21	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.40	—	50.2	<500	—	<0.100	4.99	5.71	<0.0153	—	0.628	<0.250	—	5.13	—	—	—
MW-2 (5-10')	10/26/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.10	—	48.3	<100	—	<0.50	4.2	6.4	<0.071	—	<1.0	<1.0	—	6.8	—	—	15.4
MW-2 (10-12')	10/26/21	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.44	—	73.2	<500	—	<0.100	7.4	9.16	0.117	—	<0.500	<0.250	—	11.4	—	—	—
MW-2 (10-12')	10/26/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.10	—	52.7	363	—	<0.50	5.9	8	<0.080	—	<1.0	<1.0	—	12.8	—	—	29
MW-2 (14-16')	10/26/21	Approach	—	—	—	0.255	2.00	4.07	0.279	<0.410	1.52	—	27.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	69.7	—	—
MW-2 (14-16')	10/26/21	HET	—	—	—	0.263	5.02	1.45	20.9	16.9	6.26	—	25.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	48.02	—	24.2
MW-3 (8-10')	10/27/21	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.56	—	84.7	803	—	0.726	15.6	12.8	<0.0144	—	2.5	<0.250	—	68.6	—	—	—
MW-3 (8-10')	10/27/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.5	—	235	2580	—	<0.50	33.4	9.3	<0.067	—	1.9	<1.0	—	29.6	—	—	16
MW-3R (8-10')	02/06/23	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-3 (10-12')	10/27/21	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.95	—	26.4	<500	—	<0.100	9.82	7.22	<0.0151	—	0.722	<02.50	—	40.8	—	—	—
MW-3 (10-12')	10/27/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.4	—	33.8	<100	—	<0.47	7.9	4.3	<0.069	—	<0.94	<0.94	—	33.6	—	—	21.4
MW-3 (12-14')	10/27/21	Approach	—	—	—	0.427	3.05	2.41	<0.250	<0.410	2.41	—	12.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	59.5	—	—
MW-3 (12-14')	10/27/21	HET	—	—	—	0.416	4.21	4.12	0.421	0.555	2.86	—	17.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	41.48	—	21
Maximum	N/A	N/A	—	110	—	1.69	6.58	1																									

1 - LDNR Statewide Order 29-B standards for Upland Criteria listed for reference purposes only
2 - RECAP Non-Industrial Screening Standards (lowest of Soil_{SSni} and Soil_{SSGW}) per Table 1 of RECAP for comparison purposes only
3 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{ni only}) per Table 2 of RECAP listed for comparison purposes only
4 - SPLP standard determined by EPA Water Advisory Limit or LDEQ RECAP Groundwater Screening Standard multiplied by a default attenuation factor of 20 in accordance with LDEQ RECAP guidelines
5 - HET Calcium, Magnesium, and Sodium values reported in mg/L and converted to meq/L
6 - HET and Approach metal results reported in wet weight
mg/Kg - milligrams per kilogram equivalent to parts per million (ppm)
mmhos/cm - milli mohs per centimeter
mg/L - milligrams per liter
meq/L - milliequivalents per liter
mmhos/cm - milli mohs per centimeter

EC - Electrical Conductivity
ESP - Exchangeable Sodium Percentage
SAR - Sodium Adsorption Ratio
— Not Analyzed
N/A - Not Applicable

Soil Analytical Summary - RECAP Analyses (LDNR Serial No. 239592)

Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC
42nd Judicial District Court, Docket No. 81488, Division "B"
Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields
Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West
DeSoto Parish, Louisiana
LDNR OC Legacy File No. 042-003
HET Project No. 8070.00

Table 4
Page 1 of 1

Sample ID / Depth (feet)	Sample Date	Sampler	BTEX				VOC ³	TPH			VPH			EPH								PAH															
			Benzene	Toluene	Ethyl-benzene	Total Xylenes	Acetone	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	
			8260B	8260B	8260B	8260B	8260B	8015B	8015B	8015B	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B
			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	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
LDEQ RECAP SS ¹	10/20/03	N/A	0.051	20	19	18	1.5	65	65	180	1200	120	65	230	100	370	180	150	7100	180	1.7	220	88	120	0.62	0.33	0.62	6.2	62	0.33	220	230	0.62	1.5	660	230	
LDEQ RECAP MO-1 Soilini ²	N/A	N/A	1.5	680	1600	180	1700	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-1 (10-12')	08/11/20	Approach	—	—	—	—	—	—	4.93	4.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SB-2 (8-10')	08/11/20	Approach	—	—	—	—	—	—	33.3	<33.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SB-3 (6-8')	08/12/20	Approach	<0.0020	<0.0040	0.0024	<0.0020	0.0537	—	<3.33	11.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
SB-3 (14-16')	08/12/20	Approach	—	—	—	—	—	—	<3.33	5.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
MW-2 (10-12')	10/26/21	Approach	—	—	—	—	—	—	4.01	<3.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
MW-2 (10-12')	10/26/21	HET	—	—	—	—	—	—	—	—	<3.9	5.18	<3.5	12	<3.6	48.1	<8.6	<5.2	54.6	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Maximum	N/A	N/A	<0.0020	<0.0040	0.0024	<0.0020	0.0537	—	33.3	11.5	<3.9	5.18	<3.5	12	<3.6	48.1	<8.6	<5.2	54.6	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
LDEQ RECAP SS ¹	10/20/03	N/A	0.051	20	19	18	1.5	65	65	180	1200	120	65	230	100	370	180	150	7100	180	1.7	220	88	120	0.62	0.33	0.62	6.2	62	0.33	220	230	0.62	1.5	660	230	
LDEQ RECAP MO-1 Soilini ²	N/A	N/A	1.5	680	1600	180	1700	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 - RECAP Non-Industrial Screening Standards (lowest of Soil_{SSM} and Soil_{SSCM}) per Table 1 of RECAP for comparison purposes only
2 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{ILCM}) per Table 2 of RECAP listed for comparison purposes only
3 - Remaining VOC compounds not listed in the table are below laboratory standards
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
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

Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC
42nd Judicial District Court, Docket No. 81488, Division "B"
Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields
Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West
DeSoto Parish, Louisiana
LDNR OC Legacy File No. 042-003
HET Project No. 8070.00

Sample ID / Depth	Sample Date	Sampler	Salinity														Metals ⁶																Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Bicarbonate (as CaCO3)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Nickel	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture		
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	2320B	9056	29B	6010D	1312	6010D	29B	1312	6010D	6010D	6010D	7471A	6010D	6010D	6010D	6010D	6010D	29B	29B	2540G		
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	mg/Kg	mg/Kg	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%	
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	'6-9	N/A			
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A			
SB-1R (0-2')	04/21/21	Approach	—	<4.00	—	0.276	0.104	0.246	1.52	0.498	0.248	—	12.8	—	<10.0	<0.10	3.36	—	129	<500	—	<0.200	6.93	7.57	<0.0156	—	<1.00	<0.500	—	8.61	83	8.26	18.1		
SB-1R (0-2')	04/21/21	HET	—	—	—	<1.0	<0.10	0.00	1.12	0.250	<0.435	—	7.1	—	—	<0.010	—	—	429	164	—	—	—	—	—	—	—	—	—	—	36.89	8.14	20		
SB-1 (8-10')	08/10/20	Approach	—	<4.00	—	0.692	2.05	5.59	2.02	<0.820	5.62	—	13.6	—	—	<0.10	2.98	—	2380	5200	—	<0.200	12	6.91	<0.0147	—	<1.00	<0.500	—	10.6	57.8	7.96	17.6		
SB-1R (8-10')	04/21/21	Approach	—	<4.00	—	0.864	3.13	4.28	1.82	0.839	4.94	—	14.6	—	—	<0.10	4.15	—	1650	<500	0.43	<0.200	13.3	6.19	0.0239	—	<1.00	<0.500	—	11.1	70.1	8.58	18.3		
SB-1R (8-10')	04/21/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	376	<1.0	—	—	—	—	—	—	—	—	—	—	—	—	—		
SB-1 (14-16')	08/10/20	Approach	—	31.4	—	0.270	5.54	2.35	<0.500	<0.820	2.35	—	15.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	75.3	—	21.3			
SB-2 (4-6')	08/11/20	Approach	—	<4.00	—	0.552	3.01	8.64	0.764	<0.820	5.34	—	13.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	56.6	—	23.1			
SB-2R (8-10)	06/20/23	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	872	—	—	—	—	—	—	—	—	—	—	—	—	—	22.7			
SB-2R (8-10)	06/20/23	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	29.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SB-2 (10-12')	08/11/20	Approach	—	26.2	—	0.733	2.50	5.81	2.24	<0.820	6.15	—	12.7	—																					

Soil Analytical Summary - 29B Analyses (LDNR Serial No. 240035)

Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC
42nd Judicial District Court, Docket No. 81488, Division "B"
Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields
Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West
DeSoto Parish, Louisiana
LDNR OC Legacy File No. 042-003
HET Project No. 8070.00

Table 5
Page 2 of 2

Sample ID / Depth	Sample Date	Sampler	Salinity														Metals ⁶														Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Bicarbonate (as CaCO3)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Nickel	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	2320B	9056	29B	6010D	1312	6010D	29B	1312	6010D	6010D	6010D	7471A	6010D	6010D	6010D	6010D	6010D	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	mg/Kg	mg/Kg	%	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	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	6-9	N/A
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A
LDEQ RECAP MO-1 SoilIni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A
MW-2 (0-2')	10/25/21	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.87	—	60.2	<500	—	<0.100	16	13.2	0.0142	—	<0.500	<0.250	—	19.2	—	—	—
MW-2 (0-2')	10/25/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.7	—	62.7	120	—	<0.50	9.0	7.1	<0.077	—	<1.0	<1.0	—	22.4	—	—	13.8
MW-2 (2-4')	10/25/21	Approach	—	—	—	0.261	2.78	3.00	0.613	<0.410	1.66	—	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	45	4.59	—
MW-2 (2-4')	10/25/21	HET	—	—	—	0.0969	3.68	0.764	8.90	9.75	2.32	—	13.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34.69	4.95	16.4
MW-2 (8-10')	10/25/21	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.4	—	37.5	<500	—	<0.100	5.69	6.15	<0.0145	—	<0.500	<0.250	—	5.56	35.9	6.94	—
MW-2 (8-10')	10/25/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.5	—	34	<100	—	<0.50	4.5	6.00	<0.069	—	<1.0	<1.0	—	6.5	—	—	17.1
MW-2 (14-16')	10/25/21	Approach	—	—	—	0.596	—	4.70	0.532	0.589	3.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	45.6	—	—
MW-2 (14-16')	10/25/21	HET	—	—	—	0.13	-0.298	0.286	7.50	8.13	0.796	—	8.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31.15	—	22.5
MW-3 (0-2')	10/26/21	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.11	—	48.2	<500	—	<0.100	8.38	6.84	<0.0141	—	<0.500	<0.250	—	19	—	—	—
MW-3 (0-2')	10/26/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.6	—	95.8	<100	—	<0.50	9.4	6.9	<0.071	—	<1.0	<1.0	—	25.8	—	—	14.3
MW-3 (2-4')	10/26/21	Approach	—	—	—	0.606	2.4	4.24	1.23	0.494	3.94	—	12.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	62.1	7.89	—
MW-3 (2-4')	10/26/21	HET	—	—	—	0.281	5.07	2.39	1.18	0.406	2.12	—	14.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.97	8.02	14.2
MW-3 (8-10')	10/26/21	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.45	—	27.7	<500	—	<0.100	6.74	3.86	<0.0155	—	<0.500	<0.250	—	7.49	44.1	4.94	—
MW-3 (8-10')	10/26/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.6	—	52.9	<100	—	<0.48	8.3	3.6	<0.077	—	<0.96	<0.96	—	6.4	—	4.74	14.1
MW-3 (22-24')	10/26/21	Approach	—	—	—	0.138	6.29	0.782	<0.250	<0.410	0.782	—	23.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	94.9	—	—
MW-3 (22-24')	10/26/21	HET	—	—	—	0.336	12	1.38	45.5	51.6	9.57	—	12.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	47.22	—	19.1
Maximum	N/A	N/A	—	503	—	2.36	12	12.2	45.5	51.6	20.0	—	23.3	—	<10.0	<0.10	6.87	—	2380	5200	0.43	<0.50	16	13.2	0.0289	—	<1.0	<1.0	—	25.8	94.9	8.58	28.7
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	6-9	N/A
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A
LDEQ RECAP MO-1 SoilIni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A

1 - LDNR Statewide Order 29-B standards for Upland Criteria listed for reference purposes only
2 - RECAP Non-Industrial Screening Standards (lowest of Soil_{SSH} and Soil_{SSGW}) per Table 1 of RECAP for comparison purposes only
3 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{NI only}) per Table 2 of RECAP listed for comparison purposes only
4 - SPLP standard determined by EPA Water Advisory Limit or LDEQ RECAP Groundwater Screening Standard multiplied by a default attenuation factor of 20 in accordance with LDEQ RECAP guidelines
5 - HET Calcium, Magnesium, and Sodium values reported in mg/L and converted to meq/L
6 - HET and Approach metal results reported in wet weight
mg/Kg - milligrams per kilogram equivalent to parts per million (ppm)
mmhos/cm - milli mohs per centimeter
mg/L - milligrams per liter
meq/L - milliequivalents per liter
mmhos/cm - milli mohs per centimeter
EC - Electrical Conductivity
ESP - Exchangeable Sodium Percentage
SAR - Sodium Adsorption Ratio
— Not Analyzed
N/A - Not Applicable

Soil Analytical Summary - (LDNR Serial No. 240035)																																
Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC 42nd Judicial District Court, Docket No. 81488, Division "B" Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West DeSoto Parish, Louisiana LDNR OC Legacy File No. 042-003 HET Project No. 8070.00																																
Table 6 Page 1 of 1																																
Sample ID / Depth (feet)	Sample Date	Sampler	TPH			VPH			EPH								PAH															
			TPH-GRO (C6-C10)	TPH-DRO (C10-C28)	TPH-ORO (>C28)	C6-C8 Aliphatics	C8-C10 Aliphatics	C8-C10 Aromatics	C10-C12 Aliphatics	C10-C12 Aromatics	C12-C16 Aliphatics	C12-C16 Aromatics	C16-C21 Aromatics	C16-C35 Aliphatics	C21-C35 Aromatics	2-Methyl- naphthalene	Ace- naphthene	Ace- naphthylene	Anthracene	Benzo(a)- anthracene	Benzo(a)- pyrene	Benzo(b)- fluoranthene	Benzo(k)- fluoranthene	Chrysene	Dibenz(a,h)- anthracene	Fluor-anthene	Fluorene	Indeno (1,2,3- cd) pyrene	Naphthalene	Phen- anthrene	Pyrene	
			8015B	8015B	8015B	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B
			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 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-1R (0-2')	04/21/21	Approach	—	<3.33	3.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-1 (8-10')	08/10/20	Approach	—	83.8	<33.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-1R (8-10')	04/21/21	Approach	—	295	49.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-1RR (8-10')	07/22/21	HET	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.2	<8.9	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-1RR (8-10')	07/22/21	Approach	<9.17	178	77.6	—	—	—	<2.00	2.37	9.81	4.61	<2.00	12.3	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-3R (0-2')	04/21/21	Approach	—	<3.33	6.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-3 (2-4')	08/11/20	Approach	—	106	<33.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-3R (2-4')	04/21/21	Approach	—	85.2	<33.3	<2.50	<4.99	<3.33	3.83	1.96	66.6	5.81	3.35	219	3.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-3R (2-4')	04/21/21	HET	—	—	—	<4.0	14	<3.6	41.5	<3.7	300	<8.9	7.87	173	1.46	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-2 (2-4')	10/25/21	Approach	—	9.94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-2 (2-4')	10/25/21	HET	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<8.0	<8.7	<5.3	<5.1	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-2 (8-10')	10/25/21	Approach	—	30.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-2 (8-10')	10/25/21	HET	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<7.9	<8.6	<5.2	<5.0	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-3 (2-4')	10/26/21	Approach	—	70.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-3 (2-4')	10/26/21	HET	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<8.0	<8.7	<5.3	<5.1	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-3 (8-10')	10/26/21	Approach	—	<3.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-3 (8-10')	10/26/21	HET	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.2	<8.9	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Maximum	N/A	N/A	<9.17	295	77.6	<4.0	14	<3.6	41.5	2.37	300	5.81	7.87	219	3.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
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 - RECAP Non-Industrial Screening Standards (lowest of Soil_{SSW} and Soil_{SSGW}) per Table 1 of RECAP for comparison purposes only
2 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{NI only}) per Table 2 of RECAP listed for comparison purposes only
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

Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC
42nd Judicial District Court, Docket No. 81488, Division "B"
Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields
Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West
DeSoto Parish, Louisiana
LDNR OC Legacy File No. 042-003
HET Project No. 8070.00

Sample ID / Depth	Sample Date	Sampler	Salinity														Metals ⁶																	Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Bicarbonate (as CaCO3)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Nickel	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture			
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	2320B	9056	29B	6010D	1312	6010D	29B	1312	6010D	6010D	6010D	7471A	6010D	6010D	6010D	6010D	6010D	29B	29B	2540G			
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	mg/Kg	mg/Kg	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.	%		
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	'6-9	N/A				
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A			
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A				
SB-1R (0-2')	04/20/21	Approach	—	<4.00	—	0.424	0.228	0.404	3.3	0.539	0.56	—	8.3	—	—	<0.10	2.17	—	601	<500	—	<0.200	7.01	5.46	<0.0147	—	<1.00	<0.500	—	5.99	39.4	8.09	19.4			
SB-1R (0-2')	04/20/21	HET	—	—	—	<1.0	<0.10	0.172	4.86	0.561	<0.435	—	6.9	—	—	<0.010	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.61	7.98	15.4			
SB-1 (4-6')	08/12/20	Approach	—	82	—	5.20	4.49	11.2	28.2	<0.820	42	—	15.7	—	—	<0.10	2.03	—	68.5	9750	—	<0.200	5.58	4.9	<0.0139	—	<1.00	<0.500	—	4.25	77.5	8.09	35.3			
SB-1 (6-8')	08/12/20	Approach	—	101	—	5.92	8.77	13.6	24.1	1.32	48.6	—	13	—	—	<0.10	3.82	—	915	12600	—	<0.200	10.2	6.13	0.0151	—	<1.00	<0.500	—	6.08	64.6	7.76	26.7			
SB-1R (6-8')	04/20/21	Approach	—	<8.00	0.458	3.12	19.1	33.6	1.52	<0.820	29.3	78.2	15.1	—	—	<0.10	5.67	—	145	568	—	0.212	14.6	7.17	<0.0138	—	<1.00	<0.500	—	28.4	42.8	8.35	21			
SB-1R (6-8')	04/20/21	HET	—	—	<0.70	—	—	—	—	—	—	99.1	—	—	—	<0.010	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23.4				
SB-1R (8-10')	04/20/21	Approach	—	17.1	—	2.36	52.4	54.1	0.337	<0.164	22.2	—	14	—	—	<0.10	2.51	—	188	535	—	<0.200	9.41	5.93	0.0264	—	<1.00	<0.500	—	30.5	104	9.29	28.1			
SB-1R (8-10')	04/20/21	HET	—	—	—	<1.0	—	—	—	—	—	—	—	—	—	<0.010	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.38	33.4				
SB-1 (12-14')	08/12/20	Approach	—	41.2	—	1.70	4.92	10.2	2.37	2.31	15.6	—	11.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49.6	—	24.6				
SB-1R (12-14')																																				

Soil Analytical Summary - 29B Analyses (LDNR Serial No. 240037)																																	
Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC 42nd Judicial District Court, Docket No. 81488, Division "B" Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West DeSoto Parish, Louisiana LDNR OC Legacy File No. 042-003 HET Project No. 8070.00																																	
Table 7 Page 2 of 2																																	
Sample ID / Depth	Sample Date	Sampler	Salinity														Metals ⁶														Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Bicarbonate (as CaCO3)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Nickel	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	2320B	9056	29B	6010D	1312	6010D	29B	1312	6010D	6010D	6010D	7471A	6010D	6010D	6010D	6010D	6010D	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	mg/Kg	mg/Kg	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	'6-9	N/A
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A
MW-3 (0-2')	10/27/21	Approach	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.15	—	31.7	<500	—	<0.100	9.88	5.17	0.0164	—	<0.500	<0.250	—	6.3	—	—	—
MW-3 (0-2')	10/27/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.8	—	41.5	200	—	<0.50	11.5	6.6	<0.077	—	<1.0	<1.0	—	8.2	—	—	13.4
MW-3 (4-6')	10/28/21	Approach	—	—	—	0.175	0.62	0.882	0.796	<0.410	0.557	—	11.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53.7	—	—
MW-3 (4-6')	10/28/21	HET	—	—	—	<1.0	0.777	4.53	0.130	<0.167	1.62	—	22.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	44.68	—	15.9
MW-3 (6-8')	10/28/21	Approach	—	—	—	0.163	1.54	2.41	0.403	<0.410	1.08	—	12	—	—	—	2.79	—	38.2	<500	—	<0.100	11.4	6.07	<0.0156	—	<0.500	<0.250	—	7.42	57.2	—	—
MW-3 (6-8')	10/28/21	HET	—	—	—	<1.0	1.65	2.57	0.217	0.248	1.23	—	21.2	—	—	—	3.1	—	38.9	283	—	<0.50	12.5	7.5	<0.080	—	<1.0	<1.0	—	8.8	41.63	—	15.2
MW-3 (8-10')	10/28/21	Approach	—	—	—	0.154	1.97	0.943	<0.250	<0.410	0.943	—	9	—	—	—	1.25	—	35.7	<500	—	<0.100	5.72	4.68	0.0193	—	<0.500	<0.250	—	6.41	39.8	4.96	—
MW-3 (8-10')	10/28/21	HET	—	—	—	<1.0	2.82	7.41	<0.10	<0.167	1.02	—	17.4	—	—	—	2.3	—	43.5	340	—	<0.50	9.5	6.9	<0.077	—	<1.0	<1.0	—	8.1	38.11	4.75	12.8
MW-3 (10-12')	10/28/21	Approach	—	—	—	0.533	12.9	4.06	<0.250	<0.410	4.06	—	6.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	33.8	—	—
MW-3 (10-12')	10/28/21	HET	—	—	—	<1.0	10.8	4.72	5.25	8.58	12.3	—	15.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27	—	12.3
MW-3 (14-16')	10/28/21	Approach	—	—	—	0.535	67	11.2	0.263	<0.410	4.07	—	8.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	59.5	—	—
MW-3 (14-16')	10/28/21	HET	—	—	—	<1.0	5.12	6.46	16.1	24.8	29.0	—	37.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34.46	—	12.4
Maximum	N/A	N/A	—	101	0.458	5.92	67	54.1	28.2	24.8	48.6	99.1	37.1	—	—	<0.10	5.67	—	1920	12600	—	0.212	14.6	8.74	0.0437	—	<1.00	<1.0	—	33.7	104	9.38	57.7
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	'6-9	N/A
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A
LDEQ RECAP MO-1 Soilni ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A

1 - LDNR Statewide Order 29-B standards for Upland Criteria listed for reference purposes only
2 - RECAP Non-Industrial Screening Standards (lowest of Soil_{SSNI} and Soil_{SSGW}) per Table 1 of RECAP for comparison purposes only
3 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{NI only}) per Table 2 of RECAP listed for comparison purposes only
4 - SPLP standard determined by EPA Water Advisory Limit or LDEQ RECAP Groundwater Screening Standard multiplied by a default attenuation factor of 20 in accordance with LDEQ RECAP guidelines
5 - HET Calcium, Magnesium, and Sodium values reported in mg/L and converted to meq/L
6 - HET and Approach metal results reported in wet weight
mg/Kg - milligrams per kilogram equivalent to parts per million (ppm)
mmhos/cm - milli mohs per centimeter
mg/L - milligrams per liter
meq/L - milliequivalents per liter
mmhos/cm - milli mohs per centimeter
EC - Electrical Conductivity
ESP - Exchangeable Sodium Percentage
SAR - Sodium Adsorption Ratio
— Not Analyzed
N/A - Not Applicable

Soil Analytical Summary - RECAP Analyses (LDNR Serial No. 240037)																																					
Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC 42nd Judicial District Court, Docket No. 81488, Division "B" Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West DeSoto Parish, Louisiana LDNR OC Legacy File No. 042-003 HET Project No. 8070.00																																					
Table 8 Page 1 of 1																																					
Sample ID / Depth (feet)	Sample Date	Sampler	BTEX				VOC ³	TPH				VPH			EPH								PAH														
			Benzene	Toluene	Ethyl-benzene	Total Xylenes	Acetone	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	
			8260B	8260B	8260B	8260B	8260B	8015B	8015B	8015B	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B
			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	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
LDEQ RECAP SS ¹	10/20/03	N/A	0.051	20	19	18	1.5	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	1.5	680	1600	180	1700	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-1 (4-6')	08/12/20	Approach	—	—	—	—	—	—	<3.33	7.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-1 (6-8')	08/12/20	Approach	—	—	—	—	—	—	203	68.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-1R (6-8')	04/20/21	Approach	—	—	—	—	—	—	32	6.64	<2.39	<4.78	<3.18	2.24	1.71	11.2	4.2	2.86	18.1	2.93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-1R (6-8')	04/20/21	HET	—	—	—	—	—	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<8.0	<8.7	<5.3	7.47	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-1R (8-10')	04/20/21	Approach	—	—	—	—	—	—	34.3	3.76	<2.86	<5.71	<3.81	2.49	2.49	11.5	5.46	3.31	23	4.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-1R (8-10')	04/20/21	HET	—	—	—	—	—	—	—	—	<3.9	<3.0	<3.5	5.97	3.85	44.4	16.9	23.2	90.2	3.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-1R (12-14')	04/20/21	Approach	—	—	—	—	—	—	—	—	<2.53	<5.06	<3.37	<2.00	<1.00	<2.00	<2.00	<2.00	<4.00	<2.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-1R (12-14')	04/20/21	HET	—	—	—	—	—	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.1	<8.8	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-2 (8-10')	08/12/20	Approach	<0.0020	<0.0040	<0.0020	<0.0020	0.0962	31.7	45.3	19.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-2R (8-10')	04/20/21	Approach	—	—	—	—	—	—	280	172	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-2RR (8-10')	07/22/21	HET	—	—	—	—	—	—	—	—	<3.9	<3.1	<3.5	<3.3	<3.6	<8.1	<8.8	<5.3	<5.1	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-2RR (8-10')	07/22/21	Approach	—	—	—	—	—	10.9	138	53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-2 (4-6')	10/27/21	Approach	—	—	—	—	—	—	4.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-2 (4-6')	10/27/21	HET	—	—	—	—	—	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<8.0	<8.7	<5.3	<5.1	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-2 (6-8')	10/27/21	Approach	—	—	—	—	—	—	<3.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-2 (6-8')	10/27/21	HET	—	—	—	—	—	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.2	<8.9	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-3 (6-8')	10/28/21	Approach	—	—	—	—	—	—	<3.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-3 (6-8')	10/28/21	HET	—	—	—	—	—	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.1	<8.8	<5.4	5.65	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-3 (8-10')	10/28/21	Approach	—	—	—	—	—	—	5.29	13.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-3 (8-10')	10/28/21	HET	—	—	—	—	—	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<8.0	<8.7	<5.3	<5.1	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-3 (10-12')	10/28/21	Approach	—	—	—	—	—	—	<3.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-3 (10-12')	10/28/21	HET	—	—	—	—	—	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<7.9	<8.6	<5.2	<5.0	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Maximum	N/A	N/A	<0.0020	<0.0040	<0.0020	<0.0020	0.0962	31.7	280	172	<4.0	<5.71	<3.81	5.97	3.85	44.4	16.9	23.2	90.2	4.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
LDEQ RECAP SS ¹	10/20/03	N/A	0.051	20	19	18	1.5	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	1.5	680	1600	180	1700	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 - RECAP Non-Industrial Screening Standards (lowest of Soil_{SSW} and Soil_{SSOW}) per Table 1 of RECAP for comparison purposes only
2 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{NI ORH}) per Table 2 of RECAP listed for comparison purposes only
3 - Remaining VOC compounds not listed in the table are below laboratory standards
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
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 - 29B Analyses (LDNR Serial No. 240833)

Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC
42nd Judicial District Court, Docket No. 81488, Division "B"
Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields
Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West
DeSoto Parish, Louisiana
LDNR OC Legacy File No. 042-003
HET Project No. 8070.00

Table 9
Page 1 of 2

Sample ID / Depth	Sample Date	Sampler	Salinity														Metals ⁶														Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Bicarbonate (as CaCO3)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Nickel	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	2320B	9056	29B	6010D	1312	6010D	29B	1312	6010D	6010D	6010D	7471A	6010D	6010D	6010D	6010D	6010D	29B	29B	2540G
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	mg/Kg	mg/Kg	%	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/L	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	s.u.
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	6-9	N/A
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A
LDEQ RECAP MO-1 Soil _{ini} ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A
SB-1 (2-4')	09/14/20	Approach	—	15.1	—	0.306	1.57	5.53	—	—	—	—	15.9	—	—	—	4.82	—	79.8	<500	—	<0.200	18.9	8.54	0.0211	—	<1.00	<0.500	—	22.2	50.5	5.98	20.2
SB-1 (4-6')	09/14/20	Approach	—	21.1	—	0.262	1.93	7.92	—	—	—	—	13.7	—	—	—	2.74	—	69.4	<500	—	<0.200	13.8	8.35	0.0173	—	<1.00	<0.500	—	15.1	53.9	4.21	19.7
SB-2 (2-4')	09/14/20	Approach	—	35.7	—	3.61	2.80	3.46	—	—	—	—	19.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77	7.48	17.7	
SB-2 (12-14')	09/18/20	Approach	—	100	—	2.01	6.60	8.76	—	—	—	—	25.1	—	—	—	4.65	—	117	748	—	<0.200	15.6	8.33	0.0226	—	<1.00	<0.500	—	53.3	120	6.08	27.6
SB-3 (8-10')	09/15/20	Approach	—	15.8	—	0.271	3.62	9.37	—	—	—	—	18.2	—	—	—	3.73	—	27.8	<500	—	<0.200	10.4	9.16	<0.0140	—	<1.00	<0.500	—	6.29	76.3	5.51	19.2
SB-3 (12-14')	09/18/20	Approach	—	48.7	—	1.62	11.6	11.2	—	—	—	—	27.6	—	—	—	6.79	—	146	840	—	0.294	42.3	10.9	<0.0156	—	<1.00	<0.500	—	73.8	99.9	7.72	26.3
MW-1 (23-25')	09/10/20	Approach	—	5.78	—	0.184	5.94	5.94	—	—	—	—	15.9	—	—	—	2.22	—	72.8	<500	—	<0.200	9.31	5.43	0.0308	—	<1.00	<0.500	—	25.5	63.4	5.59	23.8
MW-2 (15-20')	09/09/20	Approach	—	46.8	—	0.883	2.36	3.87	—	—	—	—	17.9	—	—	—	4.10	—	86.1	<500	—	0.239	15.2	8.87	0.0287	—	<1.00	0.616	—	86.4	63.7	6.39	26.4
HET MW-4 (2-4')	07/22/21	HET	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.80	—	—	<100	—	<0.48	12.2	7.9	<0.074	2.0	<0.96	<0.96	—	7.9	—	—	—
HET MW-4 (2-4')	07/22/21	Approach	—	—	—	0.044	0.671	0.241	<0.250	<0.410	0.241	—	19.8	—	—	—	6.26	—	25.9	<500	—	<0.200	9.4	7.96	0.0577	—	<1.00	<0.500	—	6.16	87.7	6.24	18.5
HET MW-4 (8-10')	07/22/21	HET	—	—	—	<1.0	14.7	8.19	0.505	0.7575	6.48	—	10.2	—	—	—	7.90	—	—	174	—	<0.50	12.4	11.8	<0.071	3.4	1.2	<1.0	—	20.5	61.9	4.44	25.6
HET MW-4 (8-10')	07/22/21	Approach	—	—	—	0.549	4.56	3.61	<0.250	<0.410	3.61	—	22.7	—	—	—	1.50	—	79.7	<500	—	<0.200	4.58	8.4	0.0218	—	<1.00	<0.500	—	15	112	5.31	19.5
HET MW-4 (18-20')	07/22/21	HET	—	—	—	<1.0	5.85	2.41	1.20	1.23	2.65	—	10.6	—	—	—	5.10	—	—	343	—	<0.50	13.2	10.2	<0.077	—	<1.0	<1.0	—	27.3	60.26	5.10	23.1
HET MW-4 (18-20')	07/22/21	Approach	—	—	—	0.231	2.00	1.22	<0.250	<0.410	1.22	—	21.2	—	—	—	3.09	—	128	<500	—	0.851	16	8.37	0.0447	—	<1.00	<0.500	—	86.5	97.1	5.66	21.6
HET MW-4 (20-22')	07/22/21	HET	—	—	—	<1.0	5.59	0.792	3.54	3.03	1.43	—	9.7	—	—	—	2.70	—	—	117	—	<0.49	14.3	7.4	<0.077	27.2	<0.98	<0.98	—	97.3	47.83	7.10	20.2
HET MW-4 (20-22')	07/22/21	Approach	—	—	—	0.377	1.98	2.54	0.482	0.51	1.79	—	18.3	—	—	—	3.03	—	34.7	<500	—	<0.200	11.6	6.3	0.0356	—	<1.00	<0.500	—	85	73.9	6.53	19.5
HET MW-5 (8-10')	07/22/21	HET	—	—	—	<1.0	7.35	5.50	0.142	0.218	2.317	—	11.7	—	—	—	6.60	—	—	<100	—	<0.50	9.2	9.3	<0.071	3.3	<1.0	<1.0	—	11.2	60.16	4.72	28.1
HET MW-5 (8-10')	07/22/21	Approach	—	—	—	0.402	2.59	2.47	<0.250	<0.410	2.47	—	18.6	—	—	—	2.29	—	17.4	<500	—	<0.200	10.5	10.7	0.0587	—	<1.00	<0.500	—	8.8	57.4	5.37	26.3
HET MW-5 (12-14')	07/22/21	HET	—	—	—	<1.0	3.80	3.72	0.232	0.337	1.97	—	13.7	—	—	—	1.80	—	—	<100	—	<0.50	8.7	8	<0.077	2.4	<1.0	<1.0	—	9.6	50.98	4.65	28.6
HET MW-5 (12-14')	07/22/21	Approach	—	—	—	0.257	1.64	1.46	<0.250	<0.410	1.46	—	14.3	—	—	—	<1.00	—	39.9	<500	—	<0.200	7.26	7.22	0.106	—	<1.00	<0.500	—	14.2	51.1	5.49	25.4
HET MW-5 (20-22')	07/22/21	HET	—	—	—	<1.0	5.81	2.86	0.975	0.975	2.81	—	8.6	—	—	—	2.10	—	—	<100	—	<0.50	7.8	4.5	<0.069	2.2	<1.0	<1.0	—	11.5	48.3	5.84	23.6
HET MW-5 (20-22')	07/22/21	Approach	—	—	—	0.212	2.39	1.21	<0.250	<0.410	1.21	—	11.1	—	—	—	2.66	—	22.5	<500	—	0.267	6.28	5.29	0.0179	—	<1.00	<0.500	—	64.7	55.6	6.02	22
MW-6 (4-6')	10/28/21	Approach	—	—	—	2.31	13.5	23.0	1.29	<1.64	18.5	—	12.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53.1	6.95	—	
MW-6 (4-6')	10/28/21	HET	—	—	—	1.46	11.1	5.19	6.90	5.85	13.0	—	20.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	46.91	6.70	17	
MW-6 (10-12')	10/28/21	Approach	—	—	—	0.501	5.73	3.77	<0.250	<0.410	3.77	—	21.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83.9	7.16	—	
MW-6 (10-12')	10/28/21	HET	—	—	—	<1.0	4.26	1.47	21.1	14.8	6.22	—	17.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	55.62	7.13	23	

Soil Analytical Summary - 29B Analyses (LDNR Serial No. 240833)

Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC
42nd Judicial District Court, Docket No. 81488, Division "B"
Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields
Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West
DeSoto Parish, Louisiana
LDNR OC Legacy File No. 042-003
HET Project No. 8070.00

Table 9
Page 2 of 2

Sample ID / Depth	Sample Date	Sampler	Salinity														Metals ⁶																Additional Parameters		
			Chloride	Chloride	SPLP Chloride	EC	ESP	SAR	Calcium	Magnesium	Sodium	SPLP Sodium	CEC	Bicarbonate (as CaCO3)	Sulfate	Oil & Grease	Total Arsenic	SPLP Arsenic	Total Barium	True Total Barium	SPLP Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Nickel	Total Selenium	Total Silver	Total Strontium	Total Zinc	Saturation %	pH (Saturated Paste)	% Moisture		
			29B	9056A	1312	29B	29B	29B	29B	29B	29B	1312	29B	2320B	9056	29B	6010D	1312	6010D	29B	1312	6010D	6010D	6010D	7471A	6010D	6010D	6010D	6010D	6010D	29B	29B	2540G		
			meq/L	mg/Kg	mg/L	mmhos/cm	%	N/A	meq/L	meq/L	meq/L	mg/L	meq/100g	mg/Kg	mg/Kg	%	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	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	'6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soil _{ini} ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A		
MW-7 (10-12')	10/28/21	Approach	—	—	—	1.69	<0.10	5.81	2.89	2.44	9.48	—	22.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	99.3	4.96	—			
MW-7 (10-12')	10/28/21	HET	—	—	—	1.86	6.11	5.58	4.97	2.91	11.0	—	14.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	62.18	4.78	20			
MW-7 (14-16')	10/28/21	Approach	—	—	—	0.376	4.54	2.7	<0.250	<0.410	2.7	—	23.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82.2	6.09	—			
MW-7 (14-16')	10/28/21	HET	—	—	—	<1.0	3.31	1.19	32.3	26.3	6.43	—	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	56.6	5.85	19.6			
Maximum	N/A	N/A	—	100	—	3.61	14.7	23.0	32.3	26.3	18.5	—	27.6	—	—	—	7.9	—	146	840	—	0.851	42.3	11.8	0.106	27.2	1.2	0.616	—	97.3	120	7.72	28.6		
LDNR Standards ¹	N/A	N/A	N/A	N/A	N/A	<4	<15	<12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	10	N/A	N/A	40000	N/A	10	500	500	10	N/A	10	200	N/A	500	N/A	'6-9	N/A		
LDEQ RECAP SS ²	N/A	N/A	N/A	N/A	5000 ³	N/A	N/A	N/A	N/A	N/A	N/A	1200 ³	N/A	N/A	N/A	N/A	12	0.2 ³	550	N/A	40 ³	3.9	100	100	2.3	160	20	39	N/A	2300	N/A	N/A	N/A		
LDEQ RECAP MO-1 Soil _{ini} ³	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	5500	N/A	N/A	39	120000	400	23	1600	390	390	N/A	23000	N/A	N/A	N/A		

1 - LDNR Statewide Order 29-B standards for Upland Criteria listed for reference purposes only
2 - RECAP Non-Industrial Screening Standards (lowest of Soil_{SSni} and Soil_{SSGW}) per Table 1 of RECAP for comparison purposes only
3 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{ni only}) per Table 2 of RECAP listed for comparison purposes only
4 - SPLP standard determined by EPA Water Advisory Limit or LDEQ RECAP Groundwater Screening Standard multiplied by a default attenuation factor of 20 in accordance with LDEQ RECAP guidelines
5 - HET Calcium, Magnesium, and Sodium values reported in mg/L and converted to meq/L
6 - HET and Approach metal results reported in wet weight
mg/Kg - milligrams per kilogram equivalent to parts per million (ppm)
mmhos/cm - milli mohs per centimeter
mg/L - milligrams per liter
meq/L - milliequivalents per liter
mmhos/cm - milli mohs per centimeter
EC - Electrical Conductivity
ESP - Exchangeable Sodium Percentage
SAR - Sodium Adsorption Ratio
— Not Analyzed
N/A - Not Applicable

Soil Analytical Summary - RECAP Analyses (LDNR Serial No. 240833)																																
Jack R. Gamble, Jr., LLC v. Indigo Minerals, LLC 42nd Judicial District Court, Docket No. 81488, Division "B" Belle Bower, Bethany Longstreet, and Logansport Oil and Gas Fields Sections 26,34, and 35, Township 13 North, Range 16 West and Section 02, Township 12 North, Range 16 West DeSoto Parish, Louisiana LDNR OC Legacy File No. 042-003 HET Project No. 8070.00																																
Table 10 Page 1 of 1																																
Sample ID / Depth (feet)	Sample Date	Sampler	TPH			VPH			EPH							PAH																
			TPH-GRO (C6-C10)	TPH-DRO (C10-C28)	TPH-ORO (>C28)	C6-C8 Aliphatics	C8-C10 Aliphatics	C8-C10 Aromatics	C10-C12 Aliphatics	C10-C12 Aromatics	C12-C16 Aliphatics	C12-C16 Aromatics	C16-C21 Aromatics	C16-C35 Aliphatics	C21-C35 Aromatics	2-Methyl- naphthalene	Ace- naphthene	Ace- naphthylene	Anthracene	Benzo(a)- anthracene	Benzo(a)- pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluor-anthene	Fluorene	Indeno (1,2,3- cd) pyrene	Naphthalene	Phen- anthrene	Pyrene	
			8015B	8015B	8015B	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	TX1006	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B	8270B
			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 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-1 (2-4')	09/14/20	Approach	—	5.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-1 (4-6')	09/14/20	Approach	—	7.71	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SB-2 (0-2')	09/14/20	Approach	—	10.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-4 (2-4')	07/22/21	HET	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<8.0	<8.7	<5.3	<5.1	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-4 (20-22')	07/22/21	HET	—	—	—	<3.9	<3.0	<3.5	<3.2	<3.6	<8.1	<8.8	<5.3	<5.1	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-5 (12-14')	07/22/21	HET	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.2	<8.9	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-5 (14-16')	07/22/21	HET	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.2	<8.9	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HET MW-5 (20-22')	07/22/21	HET	—	—	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.1	<8.8	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Maximum	N/A	N/A	—	10.6	—	<4.0	<3.1	<3.6	<3.3	<3.7	<8.2	<8.9	<5.4	<5.2	<1.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
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 - RECAP Non-Industrial Screening Standards (lowest of Soil_{SSM} and Soil_{SSGW}) per Table 1 of RECAP for comparison purposes only
2 - LDEQ RECAP Management Option 1 Non-Industrial Standards (Soil_{NI only}) per Table 2 of RECAP listed for comparison purposes only
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