



**US Army Corps
of Engineers**

Vicksburg District
4155 Clay Street
Vicksburg, MS 39183-3435
www.mvk.usace.army.mil



Public Notice

APPLICATION NO.:	MVK-2006-662
EVALUATOR:	Mr. Jason Christy
PHONE NO.:	(601) 631-5298
E-MAIL:	Jason.A.Christy@usace.army.mil
DATE:	March 10, 2021
EXPIRATION DATE	March 31, 2021

Interested parties are hereby notified that the U.S. Army Corps of Engineers, Vicksburg District is considering an application for a Department of the Army permit for the work described herein. Comments should be forwarded to the Vicksburg District, Attention: CEMVK-RD, 4155 Clay Street, Vicksburg, Mississippi 39183-3435.

The Clean Water Act (CWA) Section 401 Certification Rule (Certification Rule, 40 CFR 121), effective September 11, 2020, requires certification for any license or permit that authorizes an activity that may result in a discharge. The scope of a CWA Section 401 certification is limited to assuring that a discharge from a Federally licensed or permitted activity will comply with water quality requirements. The applicant is responsible for requesting certification and providing required information to the certifying agency. As of the date of this public notice, the applicant has submitted a certification request to the Mississippi Department of Environmental Quality (certifying authority) and the Corps of Engineers has notified the certifying agency of the reasonable period of time for them to act upon the certification.

Law Requiring a Permit: Section 404 of the Clean Water Act (33 U.S.C. 1344), which applies to discharges of dredged and/or fill material into waters of the United States.

Name of Applicant:
Ms. Amber Hoffman
BFI Waste Systems of Mississippi, LLC
57 Landfill Road
Leland, Mississippi 38756

Name of Agent:
Ms. Rachael Sulkers
Hodges, Harbin, Newberry
and Tribble
4757 Best Road
Atlanta, Georgia 30337

Location of Work: Section 17, T18N-R7W, Latitude 33.405578, Longitude -90.953584, within the Deer-Steele Drainage Basin (8-digit USGS HUC: 08030209), Washington County, Mississippi.

Description of Work: (See enclosed map and drawings.)

The following descriptions of the proposed project and associated impacts are based upon information provided by the applicant.

The applicant is applying for a Department of the Army permit for the discharge of dredged and/or fill material into jurisdictional wetlands for purposes of a landfill expansion.

BFI Waste Systems of Mississippi, LLC proposes to construct waste disposal cells and stormwater ponds at the Big River Landfill located in Washington County, Mississippi. The purpose of the project is to provide additional storage for the landfills continued operations. The project area was previously permitted in 2009; however, the work was not conducted in the current project area before the permit expired.

The project area is approximately 125.60 acres in size. Within the property boundary, approximately 22.39 acres of jurisdictional forested wetlands would be impacted by the proposed project. The project will be completed in three phases, the first will involve construction of an access road (involving fill of approximately 1.27 acres of jurisdictional wetlands), phase II will be the construction of storage cells 5H, 5J, and 5K (clearing and grading 17.39 acres of jurisdictional wetlands), and phase III will be the construction of a detention pond (clearing and grading 3.73 acres of jurisdictional wetlands).

The vegetative communities within the project area are dominated by Tulip Poplar, Silver Maple, Beech, Water Hickory, Netted Chainfern, and Royal Fern. Herbaceous coverage also consists of Broom Sedge, Soft Rush, Hop sedge, and woodland Bluegrass. Soil within the project site is dominated by Sharkey clay.

The applicant proposes to mitigate for the unavoidable loss of wetland functions through the purchase of credits from a USACE approved mitigation bank that services the project's 8-digit HUC (08030209) service area.

Upon reviewing this notice, you should write to this office to provide your opinion of the impacts this work will have on the natural and human environment and address any mitigation you believe is necessary to offset these impacts. Other comments are welcome, but the above information will further our review of the applicant's plan as proposed. Comments of a general nature are not as helpful as those specific to the impacts of the subject project.

State Water Quality Permit: The State Pollution Control Agency must certify that the described work will comply with the State's water quality standards and effluent limitations before a Corps permit is issued.

Cultural Resources: The Regulatory Archaeologist has reviewed the latest published version of the National Register of Historic Places, state lists of properties determined eligible, and other sources of information. The permit area has been previously assessed for cultural resources. No Historic Properties will be affected by the proposed activity.

Endangered Species: Threatened and Endangered Species for this area include the Northern long-eared bat, Wood stork, and Pondberry. Utilizing the Standard Local Operating Procedures for Endangered Species (SLOPES) as signed on June 28, 2017, between the U.S. Army Corps of Engineers, Vicksburg District and the U.S. Fish and Wildlife Service, the Corps has determined that the proposed activity may affect the Northern long-eared bat; however, this project complies with the final 4(d) rule with incidental take covered by the U.S. Fish and Wildlife Service's Biological Opinion for the final 4(d) rule for the Northern long-eared bat. In addition, this project is not likely to adversely affect the Wood stork and will have no effect on the Pondberry.

Floodplain: In accordance with 44 CFR Part 60 (Floodplain Management and Use), participating communities are required to review all proposed development to determine if a floodplain development permit is required. Floodplain administrators should review the proposed development described in this public notice and apprise this office of any flood plain development permit requirements. The proposed project site is not within the 100-year floodplain.

Evaluation Factors: The decision whether or not to issue a permit will be based upon an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits which may be expected to accrue from the proposal must be balanced against its expected adverse effects. All factors which may be relevant to the proposal will be considered; among these are conservation, economics, aesthetics, general environmental concerns, historic values, fish and wildlife values, flood damage prevention, land use classification, navigation, recreation, water supply, water quality, energy needs, safety, food requirements and, in general, the needs and welfare of the people. Evaluation of the proposed activity will include application of the guidelines published by the Environmental Protection Agency under authority of Section 404(b) of the Clean Water Act.

Public Involvement: The purpose of this notice is to solicit comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties. These comments will be used to evaluate the impacts of this project. All comments will be considered and used to help determine whether to

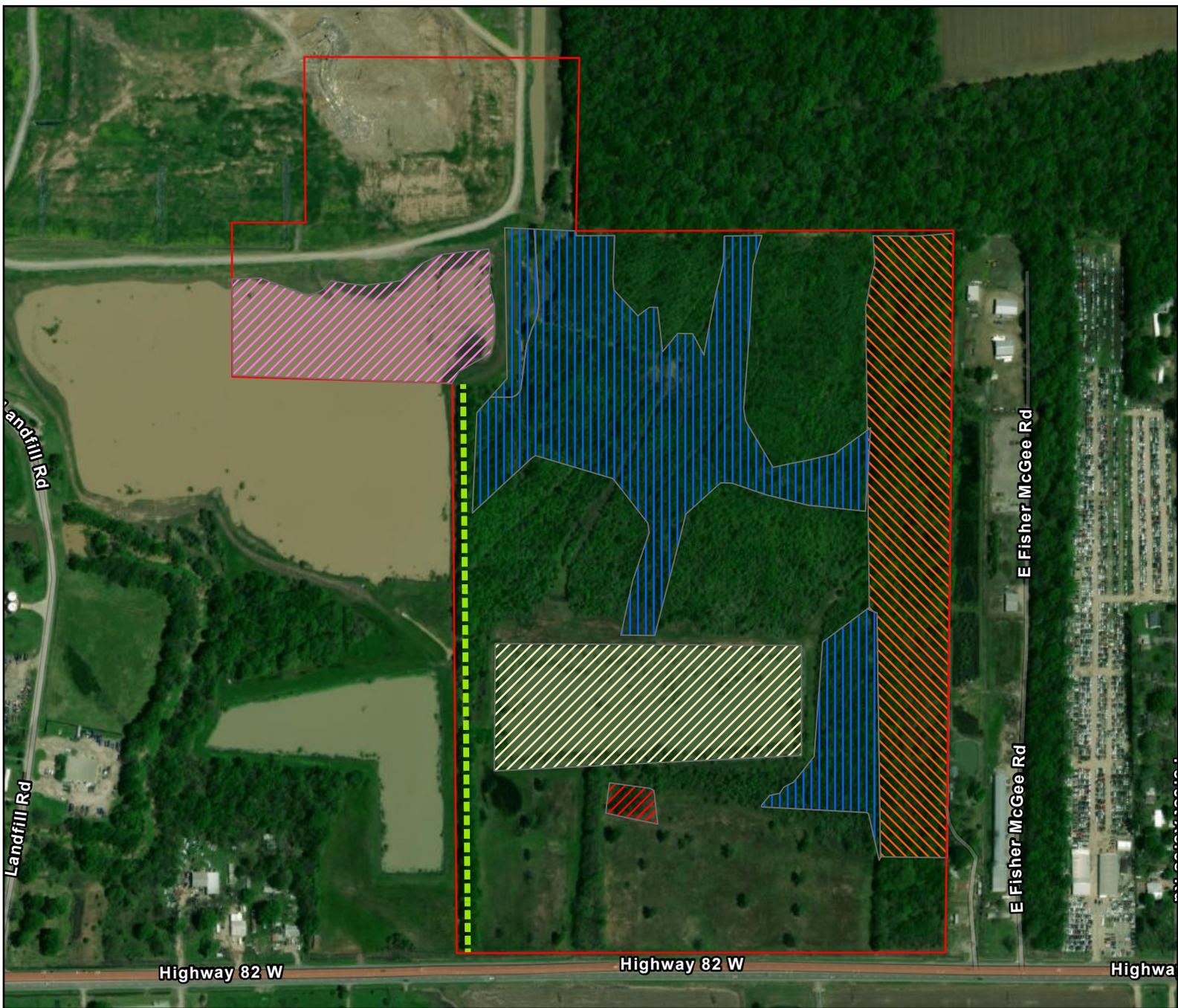
issue the permit, deny the permit, or issue the permit with conditions, and to help us determine the amount and type of mitigation necessary. This information will be used in our Environmental Assessment or Impact Statement. Comments are also used to determine the need for a public hearing.

Opportunity for a Public Hearing: Any person may make a written request for a public hearing to consider this permit application. This request must be submitted by the public notice expiration date and must clearly state why a hearing is necessary. Failure of any agency or individual to comment on this notice will be interpreted to mean that there is no objection to the proposed work. Please bring this announcement to the attention of anyone you know who might be interested in this matter.

Notification of Final Permit Actions: Each month, the final permit actions from the preceding month are published on the Vicksburg District Regulatory web page. To access this information, you may follow the link from the Regulatory web page, <http://www.mvk.usace.army.mil/Missions/Regulatory.aspx>.



Cori Carraway
Chief, Permit and Evaluation Branch
Regulatory Division



- Legend**
- - - Excluded Ditch (2,003.16')
 - Boundary
 - Existing Borrow Area (Non-Jurisdictional)(10.36 Acres)
 - Previously Permitted (7.54 Acres)
 - Jurisdictional Forested Wetlands Impacted (22.39 Acres)
 - Jurisdictional Forested Wetlands Not-Impacted (13.78 Acres)
 - Excluded-Scrub-Shub Wetlands Impacted (.44 Acre)

Scale: 1:6,000



10 DECEMBER 2020
MVK-2006-662

BFI Waste Systems of
 Mississippi
 Big River Landfill
 Washington County, MS

Approved
 Jurisdictional Determination

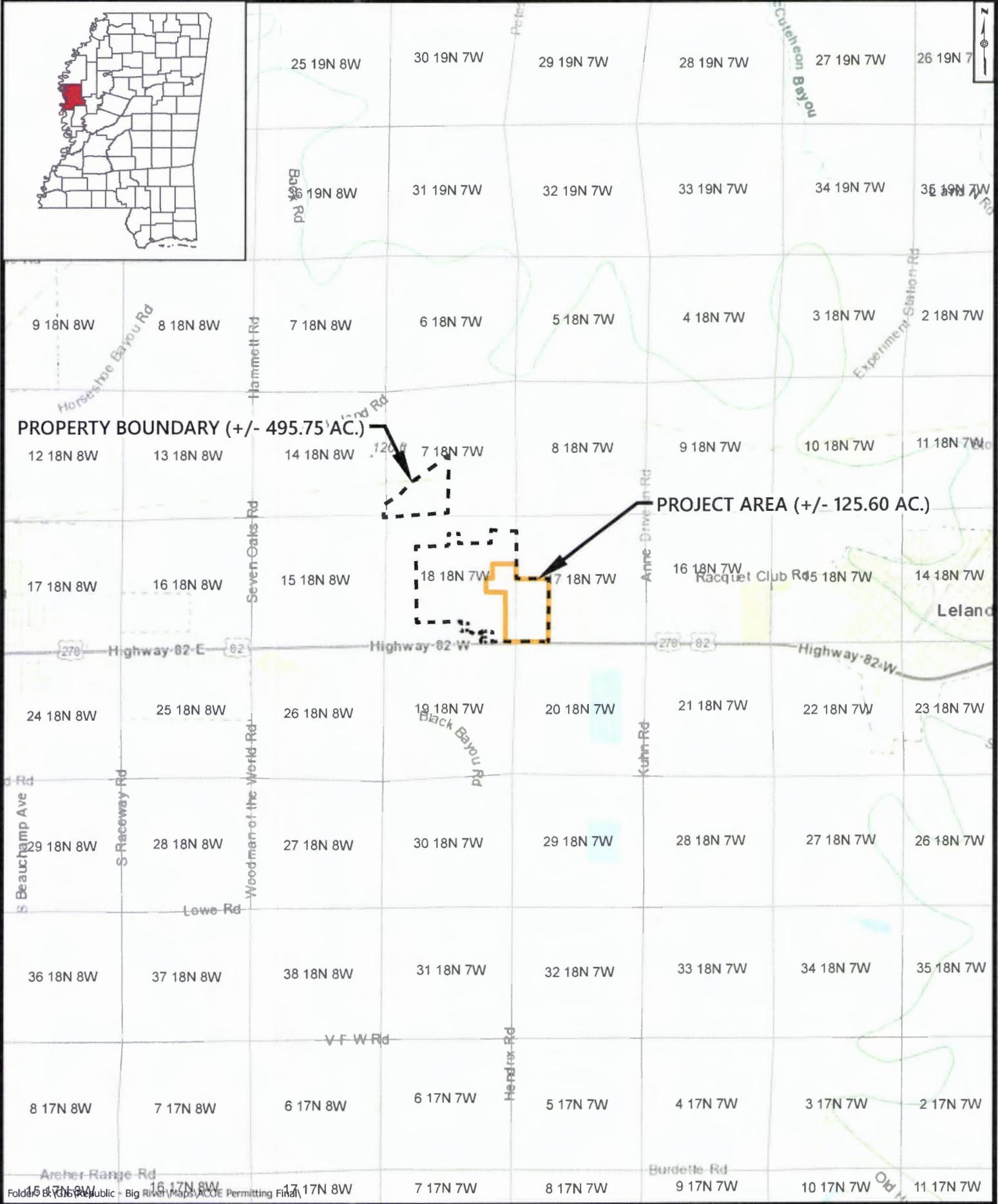
Jeremy Stokes



US Army Corps of Engineers®

REGULATORY BRANCH
 ENFORCEMENT SECTION

0 385 770
 Feet



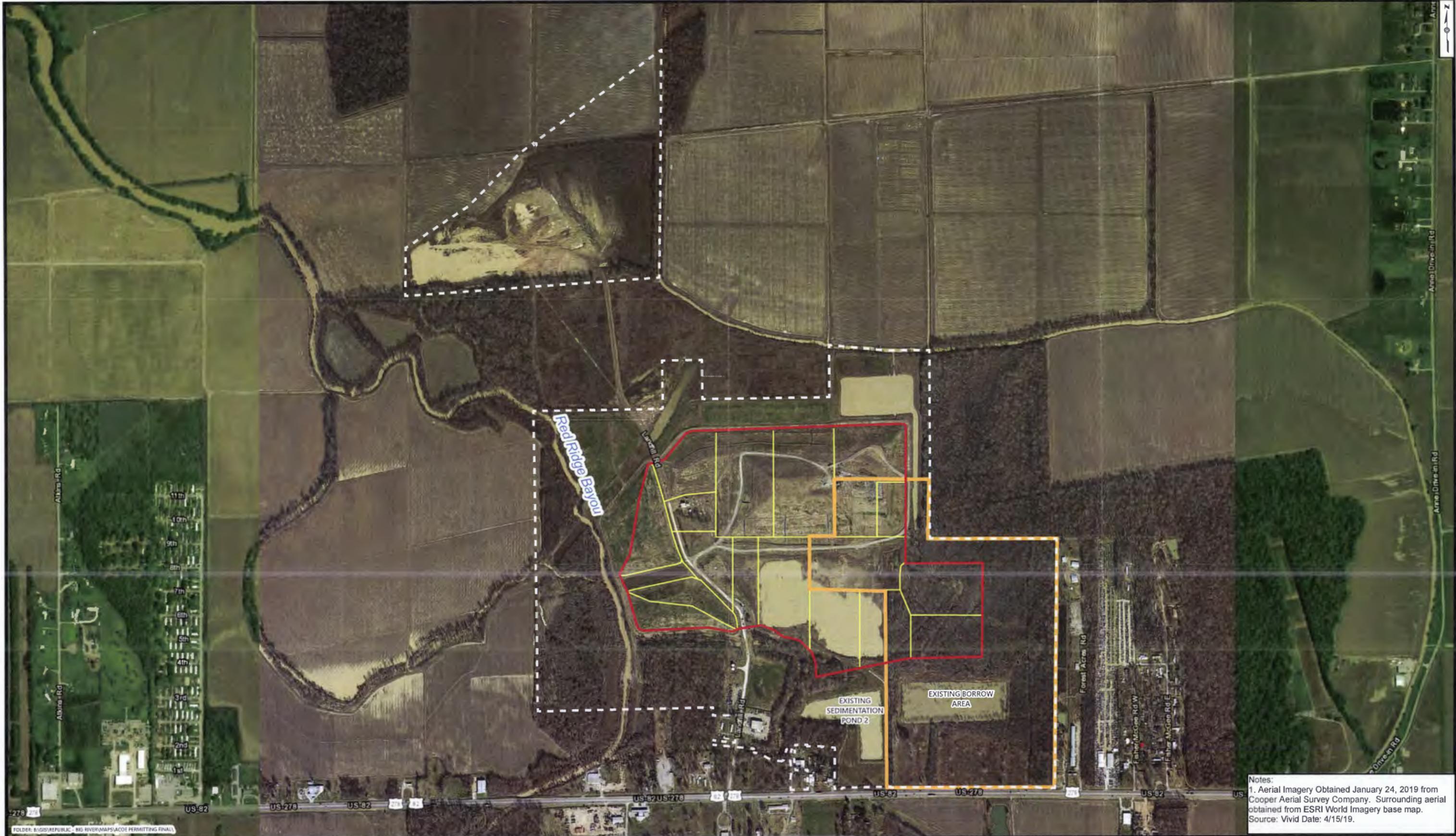
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Figure 1 - Location Map

Big River Landfill - BFI Waste Systems of Mississippi, LLC
 Leland, Mississippi
 Washington County
 Date: 8/25/2020



HHNT
 HODGES, HARBIN,
 NEWBERRY & TRIBBLE, INC.
 Consulting Engineers



Notes:
 1. Aerial Imagery Obtained January 24, 2019 from Cooper Aerial Survey Company. Surrounding aerial obtained from ESRI World Imagery base map. Source: Vivid Date: 4/15/19.

Figure 2 - Aerial Photograph



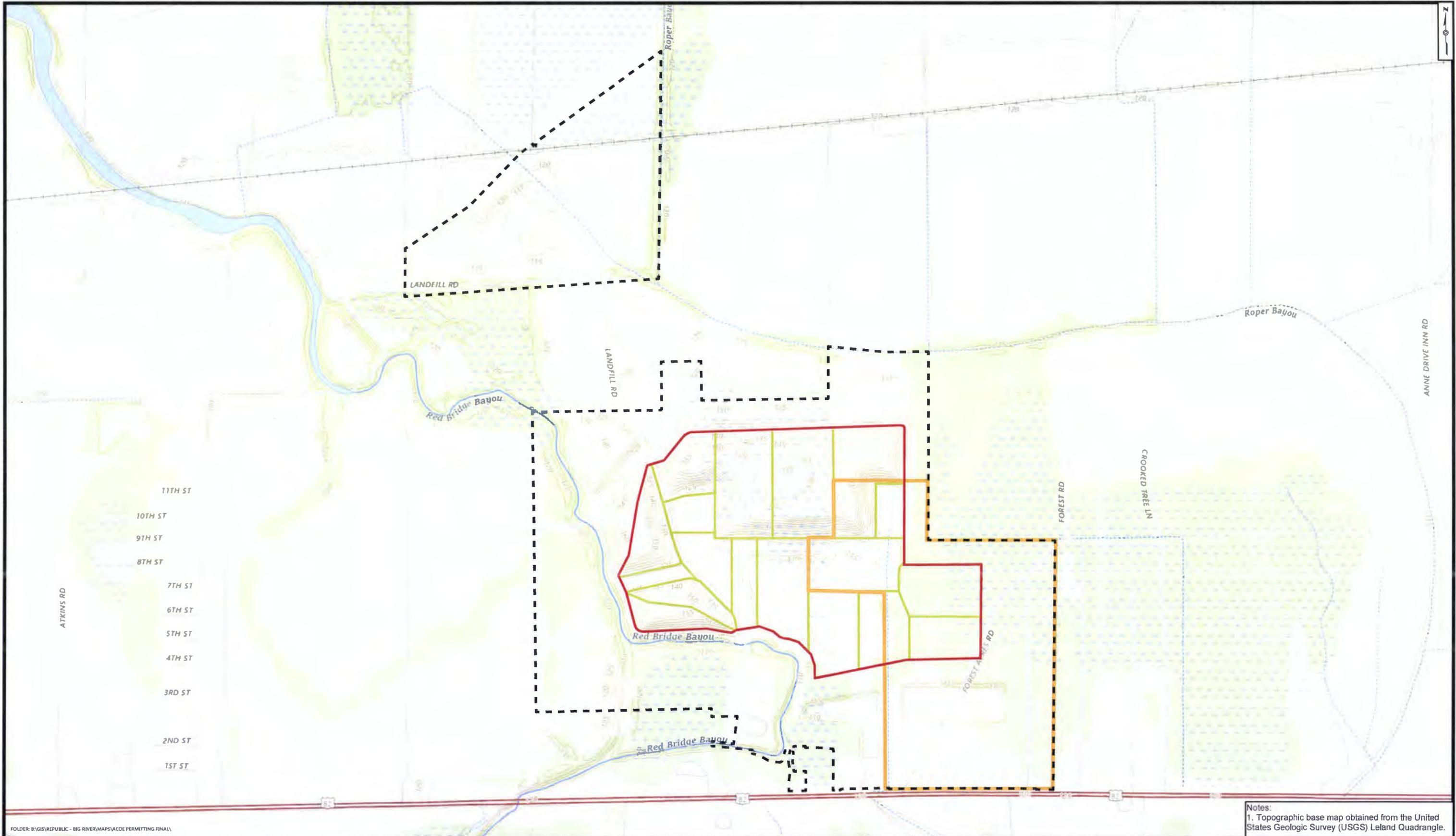
DISCLAIMER:
 This drawing and the information contained herein is for general presentation purposes only and is a compilation of shape file(s) provided by various source(s). The source and accuracy of the files(s) has not been verified by HHNT and therefore the drawing is not intended for use as an engineering drawing or for design purposes.

Big River Landfill
BFI Waste Systems of Mississippi, LLC
Leland, Mississippi

Date: 8/25/2020

- Legend
- Property Boundary (+/- 495.75 Ac.)
 - Permitted Landfill Boundary (+/- 155.18 Ac.)
 - Project Area (+/- 125.60 Ac.)
 - Cell Boundaries

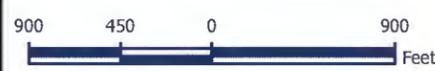




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Notes:
1. Topographic base map obtained from the United States Geologic Survey (USGS) Leland Quadrangle.

Figure 3 - USGS Topographic Map



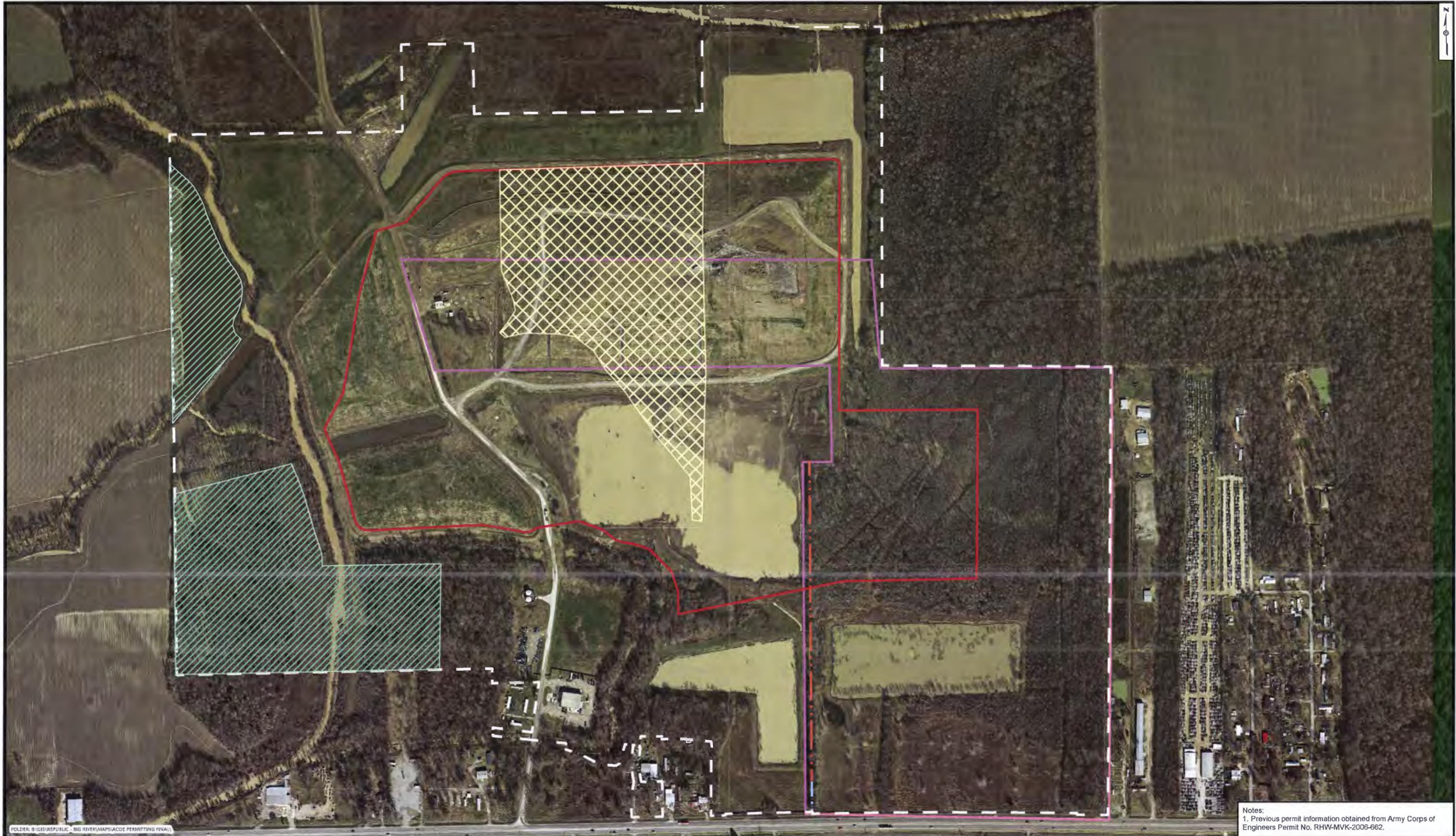
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Big River Landfill
BFI Waste Systems of Mississippi, LLC
Leland, Mississippi

Date: 8/25/2020

- Legend
- Property Boundary (+/- 495.75 Ac.)
 - Permitted Landfill Boundary (+/- 155.18 Ac.)
 - Project Area (+/- 125.60 Ac.)
 - Cell Boundaries





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Figure 7 - Previously Permitted Areas Map



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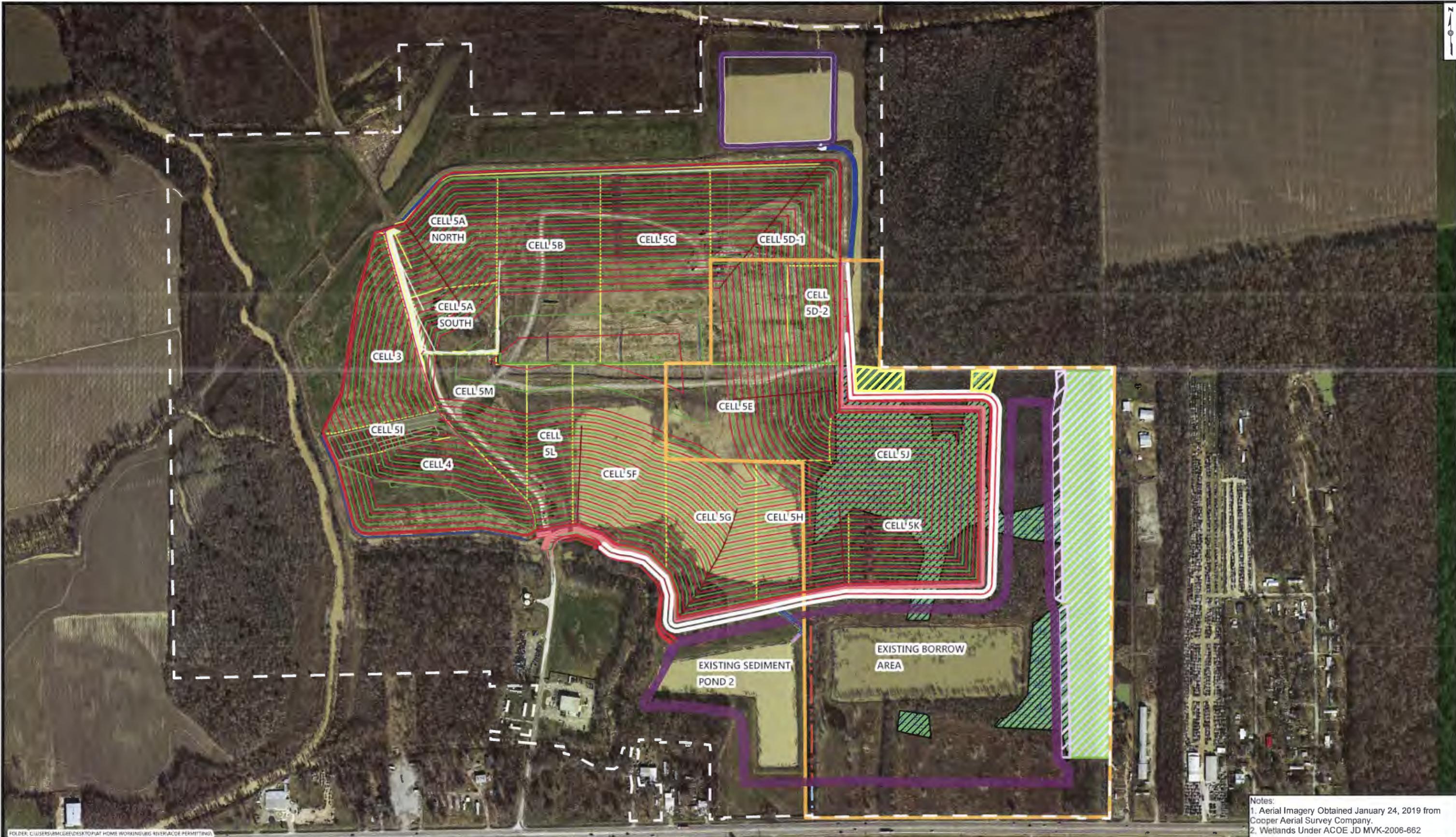
Big River Landfill
 BFI Waste Systems of Mississippi, LLC
 Leland, Mississippi

Date: 8/25/2020

Legend	
	Property Boundary (+/- 495.75 Ac.)
	Permitted Landfill Boundary (+/- 155.18 Ac.)
	Previous Jurisdictional Determination Boundary (+/- 137.46 Ac.)
	Original Impacted Wetland Area (+/- 38.36 Ac.)
	Approx. Mitigated Wetland Area (+/- 32.76 Ac.)
	Previously Permitted Wetland (Not Yet Impacted) (+/- 22.84 Ac.)
	Preservation (+/- 13.78 Ac.)
	Avoided Wet Drain (+/- 1,281 Lin Ft.)
	Previously Permitted Wet Drain (+/- 722 Lin. Ft.)

Notes:
 1. Previous permit information obtained from Army Corps of Engineers Permit No. RHW-MVK-2006-662.





Notes:
 1. Aerial Imagery Obtained January 24, 2019 from Cooper Aerial Survey Company.
 2. Wetlands Under ACOE JD MVK-2006-662

Figure 8 - Proposed Site Plan



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Big River Landfill
 BFI Waste Systems of Mississippi, LLC
 Leland, Mississippi

Date: 8/6/2020

- Legend**
- Property Boundary (+/- 495.75 Ac.)
 - Permitted Landfill Boundary (+/- 155.18 Ac.)
 - Project Area (+/- 125.60 Ac.)
 - Cell Boundaries
 - Avoided Wet Drain (+/- 180 Lin Ft.)
 - Previously Permitted Wet Drain (+/- 1,823 Lin. Ft.)
 - Wetland Impacts (+/- 22.84 Ac.)
 - Preservation (+/- 13.78 Ac.)
 - Undisturbed 50ft Buffer 50ft
 - Proposed Pond (+/- 46.5 Ac.)
 - Proposed Access Road
 - Secondary Impacts





Figure 9 - Permit Phased Impacts Map

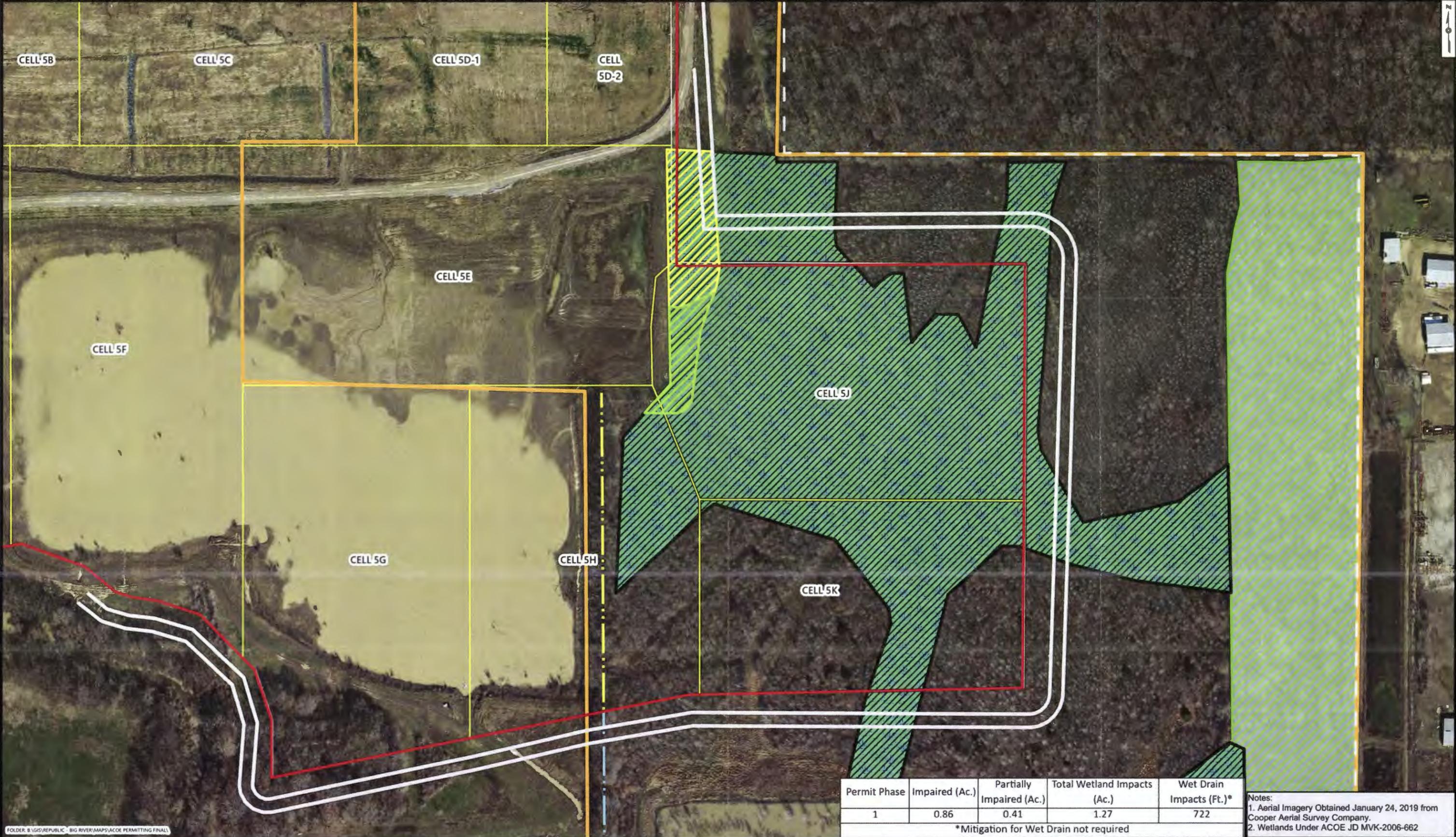


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Big River Landfill
BFI Waste Systems of Mississippi, LLC
Leland, Mississippi
Date: 8/26/2020

- Legend**
- Property Boundary (+/- 495.75 Ac.)
 - Permitted Landfill Boundary (+/- 155.18 Ac.)
 - Project Area (+/- 126.25 Ac.)
 - Cell Boundaries
 - Phase 1 Impacts (+/- 1.27 Ac.)
 - Phase 2 Impacts (+/- 17.39 Ac.)
 - Phase 3 Impacts (+/- 4.18 Ac.)
 - No Impact (+/- 13.78 Ac.)
 - Wet Drain No Impact (+/- 180 Ft.)
 - Wet Drain Phase 1 Impact (+/- 722 Ft.)
 - Wet Drain Phase 2 Impact (+/- 1,101 Ft.)





Permit Phase	Impaired (Ac.)	Partially Impaired (Ac.)	Total Wetland Impacts (Ac.)	Wet Drain Impacts (Ft.)*
1	0.86	0.41	1.27	722

*Mitigation for Wet Drain not required

Notes:
 1. Aerial Imagery Obtained January 24, 2019 from Cooper Aerial Survey Company.
 2. Wetlands Under ACOE JD MVK-2006-662

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Figure 10a - Permit Phase 1 Impacts Map



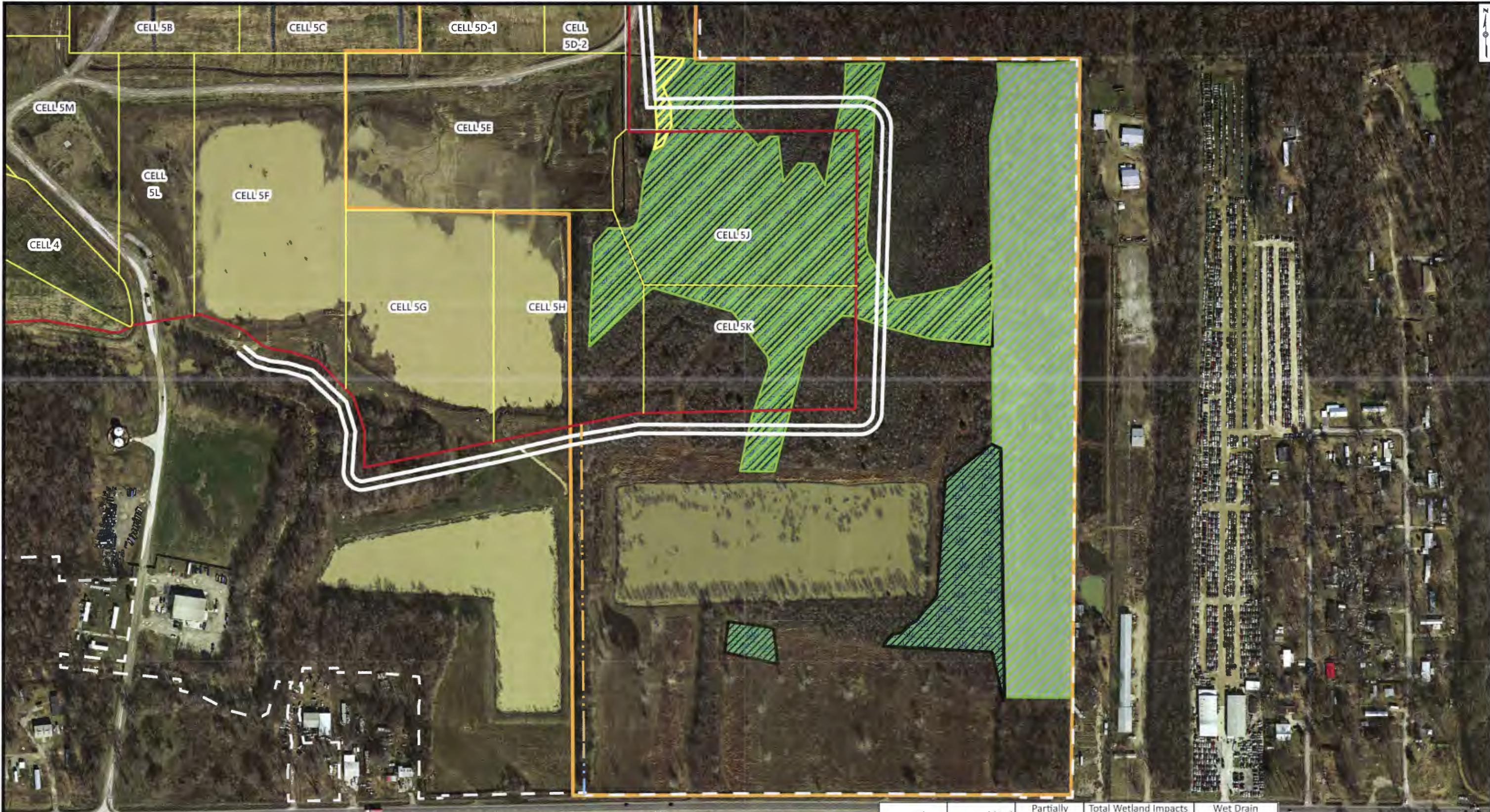
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Big River Landfill
BFI Waste Systems of Mississippi, LLC
Leland, Mississippi

Date: 8/26/2020

- Legend**
- Property Boundary (+/- 495.75 Ac.)
 - Permitted Landfill Boundary (+/- 155.18 Ac.)
 - Project Area (+/- 125.60 Ac.)
 - Cell Boundaries
 - Phase 1 Impact Areas (+/- 1.27 Ac.)
 - Partially Impaired Wetlands (+/- 0.41 Ac.)
 - Impaired Wetlands (+/- 0.86 Ac.)
 - Wet Drain Phase 1 Impact (+/- 722 Ft.)
 - Wet Drain
 - Total Permit Wetland Impacts (+/- 22.84 Ac.)
 - Preservation (+/- 13.78 Ac.)
 - Proposed Access Road





Permit Phase	Impaired (Ac.)	Partially Impaired (Ac.)	Total Wetland Impacts (Ac.)	Wet Drain Impacts (Ft.)*
2	0.38	17.01	17.39	1,101

*Mitigation for Wet Drain not required

Notes:
 1. Aerial Imagery Obtained January 24, 2019 from Cooper Aerial Survey Company.
 2. Wetlands Under ACOE JD MVK-2006-662

Figure 10b - Permit Phase 2 Impacts Map



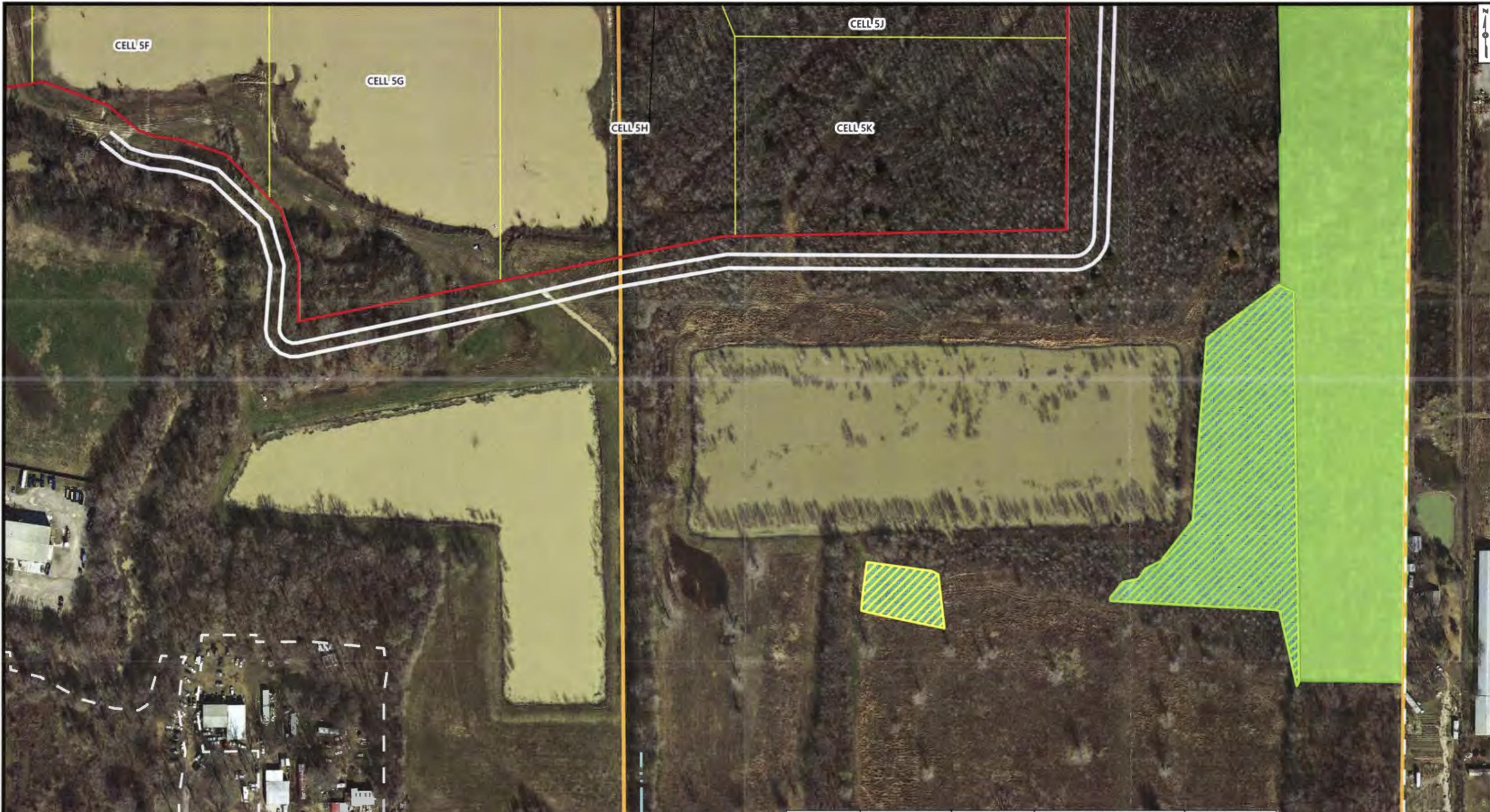
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Big River Landfill
 BFI Waste Systems of Mississippi, LLC
 Leland, Mississippi

Date: 8/26/2020

- Legend
- Property Boundary (+/- 495.75 Ac.)
 - Permitted Landfill Boundary (+/- 155.18 Ac.)
 - Project Area (+/- 125.60 Ac.)
 - Phase 2 Impact Areas (+/- 17.39 Ac.)
 - Impaired Wetlands (+/- 0.38 Ac.)
 - Partially Impaired Wetlands (+/- 17.01 Ac.)
 - Wet Drain No Impact (+/- 180 Ft.)
 - Wet Drain Phase 2 Impact (+/- 1,101 Ft.)
 - Total Permit Wetland Impacts (+/- 22.84 Ac.)
 - Preservation (+/- 13.78 Ac.)
 - Proposed Access Road
 - Cell Boundaries





Permit Phase	Impaired (Ac.)	Partially Impaired (Ac.)	Total Wetland Impacts (Ac.)	Wet Drain Impacts (Ft.)
3	0.45	3.73	4.18	0

Notes:
 1. Aerial Imagery Obtained January 24, 2019 from Cooper Aerial Survey Company.
 2. Wetlands Under ACOE JD MVK-2006-662

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Figure 10c - Permit Phase 3 Impacts Map



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Big River Landfill
BFI Waste Systems of Mississippi, LLC
Leland, Mississippi

Date: 8/26/2020

- Legend**
- Property Boundary (+/- 495.75 Ac.)
 - Permitted Landfill Boundary (+/- 155.18 Ac.)
 - Project Area (+/- 125.60 Ac.)
 - Cell Boundaries
 - Phase 3 Impact Areas (+/- 4.18 Ac.)
 - Impaired Wetlands (+/- 0.45 Ac.)
 - Partially Impaired Wetlands (+/- 3.73 Ac.)
 - Wet Drain to Remain (+/- 180 Ft.)
 - Total Permit Wetland Impacts (+/- 22.84 Ac.)
 - Preservation (+/- 13.78 Ac.)
 - Proposed Access Road



EXISTING CONDITIONS
 SITE PLAN
 MAJOR MODIFICATION
 BIG RIVER LANDFILL
 WASHINGTON COUNTY, MISSISSIPPI



NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	10/20/08
2	REVISED TO SHOW PERMIT COMMENTS	11/10/08
3	REVISED TO SHOW PERMIT COMMENTS	11/10/08
4	REVISED TO SHOW PERMIT COMMENTS	11/10/08
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49	REVISED TO SHOW PERMIT COMMENTS	11/10/08
50	REVISED TO SHOW PERMIT COMMENTS	11/10/08

PREPARED FOR:
 BFI WASTE SYSTEMS OF MISSISSIPPI, LLC
 A SUBSIDIARY OF:
REPUBLIC SERVICES, INC.
 7750 W. 11th Street, Suite 100, Minneapolis, MN 55425
 Phone: 775.254.7595 • Fax: 775.254.7598

PREPARED BY:
Terracon
 Consulting Engineers and Scientists
 2400 Highway 70, Suite 100, Metairie, LA 70002
 Phone: 504.885.7700 • Fax: 504.885.7701

- NOTES**
1. THE TOPOGRAPHIC MAP SHOWN ON THIS DRAWING WAS OBTAINED FROM THE MISSISSIPPI STATE PLANE COORDINATE METHOD PERFORMED BY BASE MAPPING CO. LTD. BASED ON AERIAL PHOTOGRAMMETRY TAKEN ON 11/10/08. THE ELEVATION DATA IS BASED ON THE MISSISSIPPI STATE PLANE COORDINATE SYSTEM WEST ZONE, NAD 83. ELEVATION IS IN FEET ABOVE MEAN SEA LEVEL, NORTH AMERICA, DATUM (NAVD) 1983.
 2. THE PROPERTY BOUNDARY SHOWN ON THIS DRAWING WAS OBTAINED FROM LEGAL DESCRIPTIONS OBTAINED FROM BFI, INC. THE LOCATION OF THE PROPERTY BOUNDARY WAS ESTABLISHED BY A SURVEY CONDUCTED BY BFI, INC. IN OCTOBER, 2008. THE PROPERTY BOUNDARY WAS ESTABLISHED BY A SURVEY CONDUCTED BY BFI, INC. IN OCTOBER, 2008.
 3. THE LIMIT OF EXISTING WASTE ALONG THE NORTHERN AND EASTERN BOUNDARY OF THE ACTIVE CELLS IS SHOWN BY A DASHED LINE. THE LIMIT OF EXISTING WASTE ALONG THE WESTERN BOUNDARY OF THE ACTIVE CELLS IS SHOWN BY A DASHED LINE. THE LIMIT OF EXISTING WASTE ALONG THE SOUTHERN BOUNDARY OF THE ACTIVE CELLS IS SHOWN BY A DASHED LINE.
 4. THE LIMITS OF EXISTING WASTE FOR AREAS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.
 5. THE LOCATIONS OF EXISTING EMBANKMENTS WERE OBTAINED FROM THE DECEMBER, 2008 ENGINEERING PLAN, STORM WATER PUMP NO. MISSISSIPPI, BIG RIVER LANDFILL.
 6. A METEOROLOGICAL RECORD WAS OBTAINED FROM THE US ARMY CORPS OF ENGINEERS, DATED MAY 7, 2008. PERMIT # 1400-2008-002 APPLIES.

LEGEND

PROPERTY BOUNDARY
 EXISTING MONITORING WELLS AND AREA 1 & 4
 APPROXIMATE LIMIT OF WASTE FOR AREAS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918,

SUBGRADE GRADING PLAN
MAJOR MODIFICATION
BIG RIVER LANDFILL
WASHINGTON COUNTY, MISSISSIPPI



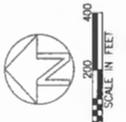
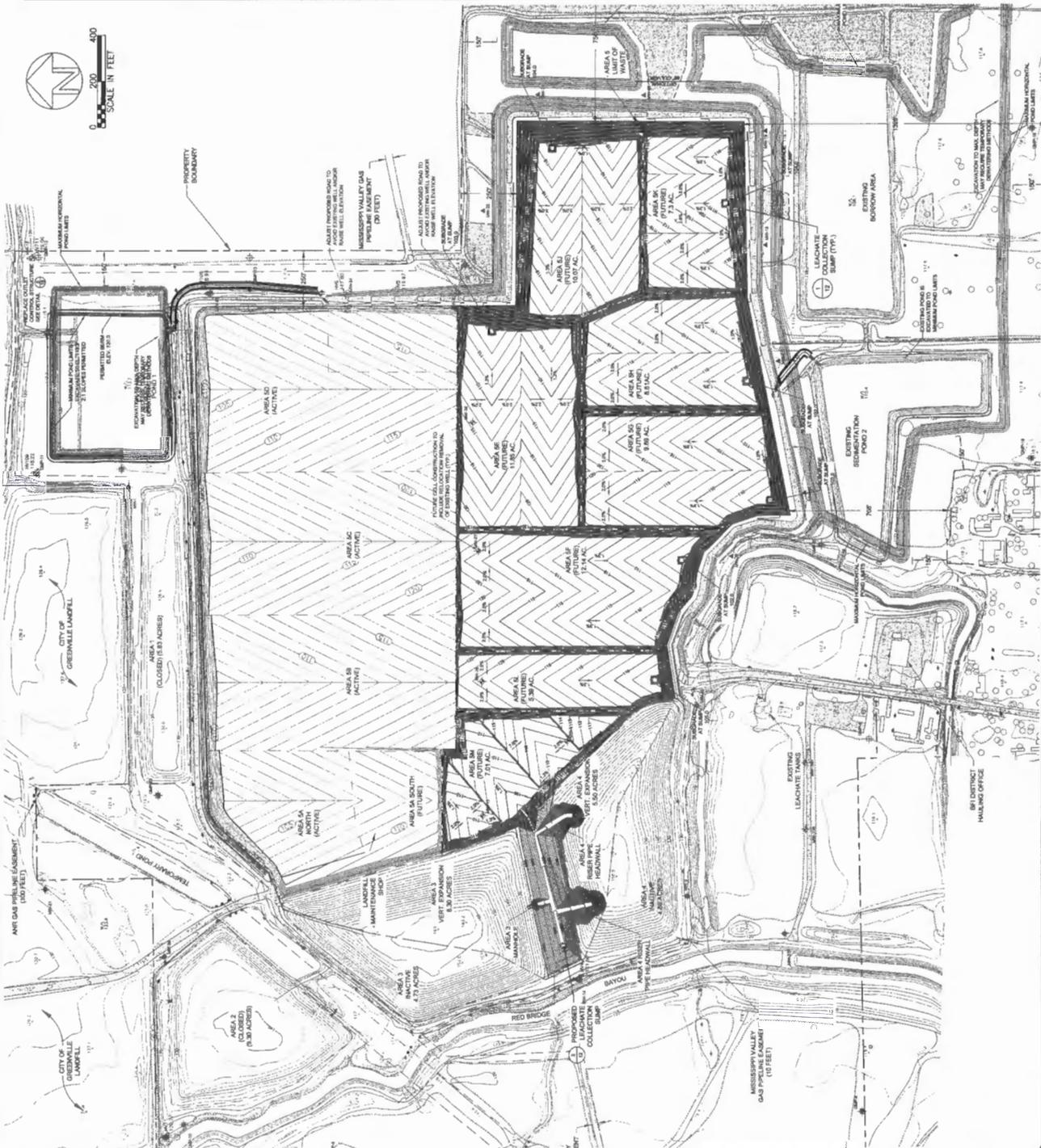
Table with 2 columns: Description and Quantity. Includes items like SUBGRADES & REVISIONS RECORD, SLOPE, and FINISH GRADE.

REPUBLIC SERVICES, INC.
A SUBSIDIARY OF
BFI WASTE SYSTEMS OF MISSISSIPPI, L.L.C.

TERRACON
Consulting Engineers and Scientists
Prepared by: [Name]

- NOTES
1. ALL SURFACE AND INTERIOR SLOPE ARE SHOWN UNLESS NOTED OTHERWISE.
2. THE PROPOSED SUBGRADE GRADING PLAN IS BASED ON THE EXISTING SURFACE GRADING PLAN...
3. THE PROPERTY BOUNDARY SHOWN ON THIS DRAWING WAS OBTAINED FROM LEGAL DESCRIPTIONS...
4. THE AREAS SHOWN AS TO BE REMOVED OR TO BE REDEVELOPED...
5. THE PROPOSED SUBGRADE GRADING PLAN IS BASED ON THE EXISTING SURFACE GRADING PLAN...
6. THE PROPOSED SUBGRADE GRADING PLAN IS BASED ON THE EXISTING SURFACE GRADING PLAN...
7. THE PROPOSED SUBGRADE GRADING PLAN IS BASED ON THE EXISTING SURFACE GRADING PLAN...
8. THE PROPOSED SUBGRADE GRADING PLAN IS BASED ON THE EXISTING SURFACE GRADING PLAN...

LEGEND
PROPERTY BOUNDARY
LIMIT OF WASTE FOR AREA 1 AND AREA 3 & 4
VERTICAL EXHIBITION
AND/OR DIAMETER LIMIT OF WASTE FOR AREAS 1, 2, 3, & 4
EXISTING PHASE BOUNDARY
PHASE BOUNDARY
EXISTING ELEVATIONS
EXISTING GROUND CONTOUR
SPIT TO EXISTENCE
EXISTING ROAD
EXISTING INTERIOR LEVEL LIMITS
EXISTING TREE LINE
EXISTING BUILDING
EXISTING SUBGRADE CONTOUR
SUBGRADE CONTOUR
PROPOSED GRADE CONTOUR
PROPOSED ROAD
EXISTING WETLANDS (TO BE RETAINED OR AVOIDED)
EXISTING GROUNDWATER MONITORING WELLS
EXISTING MICHIGAN GAS MONITORING POINTS
PROPOSED GROUNDWATER MONITORING WELLS
PROPOSED LEACHATE COLLECTION PUMP
CONCRETE SURVEY MONUMENT
EXISTING WETLAND (TO BE AVOIDED)
PROPOSED INCURANCE NUMBER
PROPOSED DUAL CONTAINMENT LEACHATE FORCE MAIN
PROPOSED DUAL CONTAINMENT LEACHATE FORCE MAIN
PROPOSED MANHOLE
PROPOSED LEACHATE COLLECTION CONDUIT
EXISTING LEACHATE COLLECTION CONDUIT
DOWN DRAIN PIPE DESCRIPTION
DIRECTION OF FLOW IN PROPOSED DRAINAGE AND OTHER DESCRIPTION
SET FORCE
FINAL COVER DRAINAGE BENCH
BENCH-FLOW DIRECTION
TEMPORARY AND PERMANENT DRAINAGE NEEDS DRAINAGE CONTROL MEASURES
EXISTING COLLECTOR DESCRIPTION
PROPOSED COLLECTOR DESCRIPTION



WASHINGTON COUNTY, MISSISSIPPI
BIG RIVER LANDFILL
MAJOR MODIFICATION
TOP OF CLAY LINER
GRADING PLAN



NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	11/15/17
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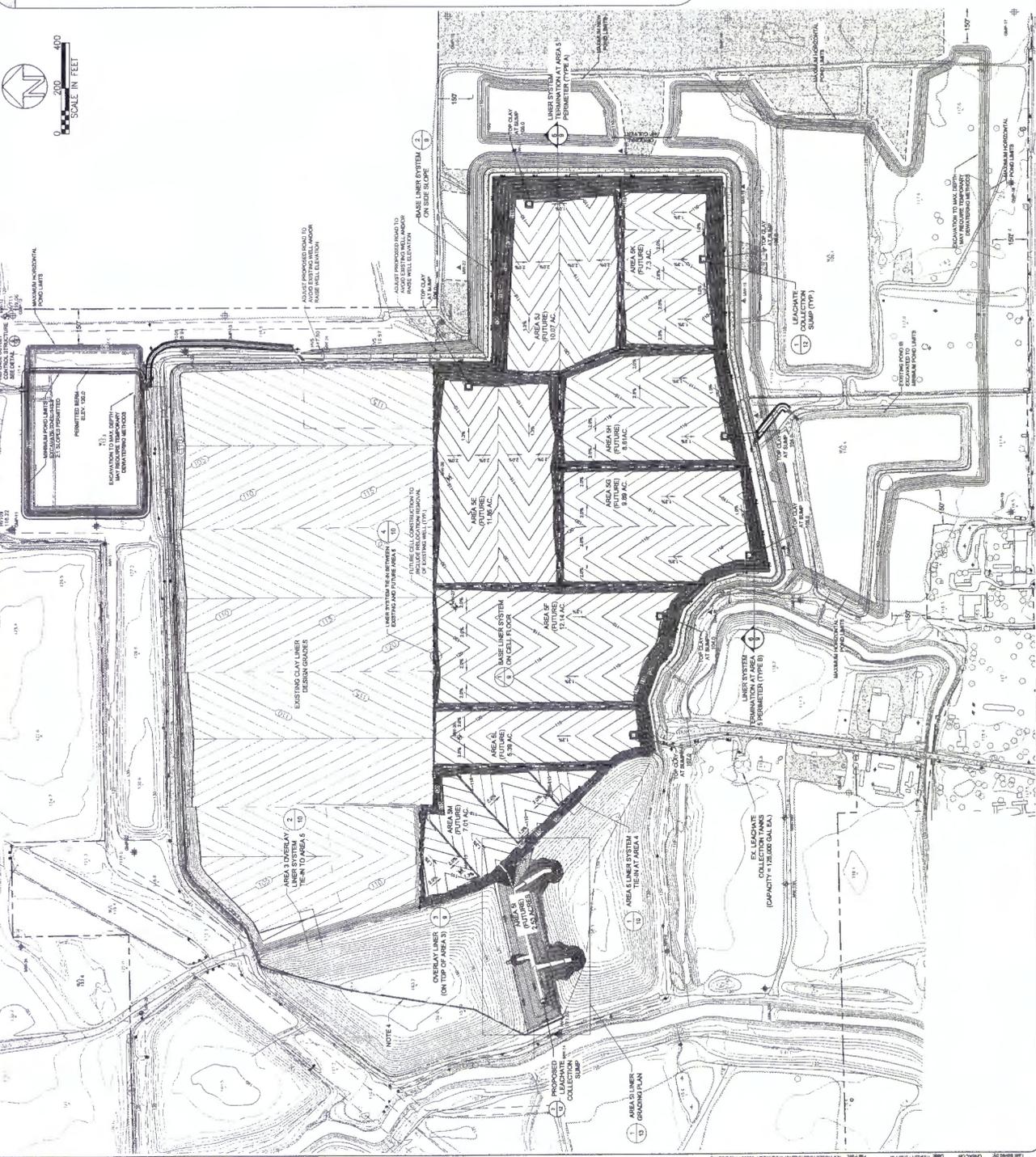
REPUBLIC SERVICES, INC.
A SUBSIDIARY OF:
BFI WASTE SYSTEMS OF MISSISSIPPI, LLC

TERRACON
Consulting Engineers and Scientists
Professional Engineering - 240 N. Highway 90, Suite 101, Meridian, MS 39301
Phone: 769-82799 • Fax: 770-281786

- NOTES**
1. ALL SLOPES OF CELLS (NON-WASTE) ARE 3:1 UNLESS OTHERWISE NOTED.
 2. THE TOPOGRAPHIC MAP SHOWN ON THIS DRAWING WAS COMPILED USING THE 1984 DATUM. THE PROPOSED GRADING PLAN IS BASED ON THE 1984 DATUM. THE MISSISSIPPI STATE PLANE COORDINATE SYSTEM WEST ZONE, AND 1983 DATUM (NAD 83) WILL BE USED TO SET ABOVE BENCH LEVEL, NORTH AMERICAN VERTICAL DATUM (NAVD) 1929.
 3. THE LOCATION OF THE EXISTING SUMPS FOR AREAS 3 AND 4 WERE OBTAINED FROM THE 1984 PERMIT APPLICATION DRAWINGS TITLED "BIG RIVER LANDFILL, WASHINGTON COUNTY, MISSISSIPPI PREPARED BY ECO-SYSTEMS, INC. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF AREA 3 MANHOLE AND SUMP. THE LOCATION OF AREA 4 MANHOLE AND SUMP SHALL BE VERIFIED BY THE CONTRACTOR. THE LOCATION OF AREA 4 MANHOLE AND SUMP SHALL BE VERIFIED BY THE CONTRACTOR. THE LOCATION OF AREA 4 MANHOLE AND SUMP SHALL BE VERIFIED BY THE CONTRACTOR.
 4. THE LIMIT OF SLOPE FOR AREA 3 VERTICAL CONSTRUCTION IS INDICATED TO FACILITATE SURFACE WATER DRAINAGE. AS SHOWN ON DRAWING 15.
 5. THE OWNER MAY SELECT TO CONSTRUCT INDEPENDENT SUMPS FOR SUBCELLS, RATHER THAN THE "CROSS-OVER" LEACHATE LATERALS DEPICTED HEREIN.
 6. THE PROPOSED SEDIMENT POND EXPANSIONS BEYOND THE MINIMUM EXTENTS WILL SERVE AS A BORROW SOURCE AND MAY BE PHASED IN OVER TIME. THIS IS NOT PROPOSED AS A REQUIREMENT FOR HYDRAULIC DESIGN OR ADDITIONAL SEDIMENT STORAGE, BUT RATHER, AS AN OPTION TO BE DETERMINED BY THE OWNER.

LEGEND

- PROPERTY BOUNDARY
- VERTICAL ELEVATION
- APPROXIMATE LIMIT OF WASTE FOR AREAS 1, 2, 3, AND 4
- EXISTING PHASE BOUNDARY
- PHASE BOUNDARY
- EXISTING EASEMENTS
- EXISTING GROUND CONTOUR
- SPOT ELEVATION
- EXISTING ROAD
- EXISTING WATER LEVEL LIMITS
- EXISTING TREE LINE
- EXISTING BUILDING
- EXISTING SUBGRADE CONTOUR
- SUBGRADE CONTOUR
- FINISHED GRADE CONTOUR
- PROPOSED ROAD
- EXISTING WETLANDS TO BE RETAINED OR AVOIDED
- EXISTING GROUNDWATER MONITORING WELLS
- EXISTING METHANE GAS MONITORING POINTS
- PROPOSED GROUNDWATER MONITORING WELLS
- PROPOSED LEACHATE COLLECTION SUMP
- CONCRETE SURVEY MONUMENT
- EXISTING WETLAND (TO BE AVOIDED)
- PROPOSED SEDIMENT NUMBER
- EXISTING DUAL CONTAINMENT LEACHATE FORCE MAIN MAIN
- PROPOSED DUAL CONTAINMENT LEACHATE FORCE MAIN
- PROPOSED MANHOLE
- PROPOSED LEACHATE COLLECTION CORRIDOR
- EXISTING LEACHATE COLLECTION CORRIDOR
- DOWN DRAIN PIPE ENDWATN
- DIRECTION OF FLOW IN PERIMETER DITCH AND DITCH ENDWATN
- SILT PRICE
- FINAL COVER DRAINAGE BENCH
- BEACH FLOW DIRECTION
- TEMPORARY AND PERMANENT GRASS SEED ENOUGH CONTROL, INDICATED
- EXISTING COLLECT RESERVATION
- PROPOSED COLLECT RESERVATION





NO.	DATE	DESCRIPTION
1	11/15/11	PRELIMINARY
2	01/10/12	REVISED PER COMMENTS
3	03/20/12	REVISED PER COMMENTS
4	05/15/12	REVISED PER COMMENTS
5	07/10/12	REVISED PER COMMENTS
6	09/10/12	REVISED PER COMMENTS
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REPUBLIC SERVICES, INC.
A SUBSIDIARY OF:
BFI WASTE SYSTEMS OF MISSISSIPPI, LLC

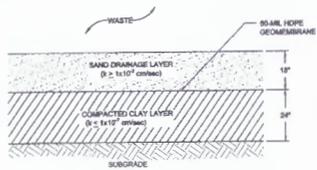
TERRACON
Consulting Engineers and Scientists
Prepared by:
BFI Waste Systems of Mississippi, LLC

- NOTES**
- ALL SLOPE VALUES SHOWN ON THIS DRAWING ARE SHOWN UNLESS OTHERWISE NOTED.
 - THE TOPOGRAPHIC MAP SHOWN ON THIS DRAWING WAS COMPILED USING PHOTOGRAMMETRIC METHODS AND IS NOT A SURVEY. THE ELEVATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE AND SHOULD BE USED AS A GENERAL GUIDE ONLY. THE ELEVATIONS SHOWN ON THIS DRAWING ARE BASED ON THE MEAN SEA LEVEL DATUM, NORTH AMERICA, VERTICAL DATUM 1988.
 - THE LAYOUT OF THE PROPOSED LEACHATE COLLECTION SYSTEM IS BASED ON THE PROPOSED LEACHATE COLLECTION SYSTEM LAYOUT SHOWN ON THIS DRAWING. THE LAYOUT OF THE PROPOSED LEACHATE COLLECTION SYSTEM IS BASED ON THE PROPOSED LEACHATE COLLECTION SYSTEM LAYOUT SHOWN ON THIS DRAWING. THE LAYOUT OF THE PROPOSED LEACHATE COLLECTION SYSTEM IS BASED ON THE PROPOSED LEACHATE COLLECTION SYSTEM LAYOUT SHOWN ON THIS DRAWING.
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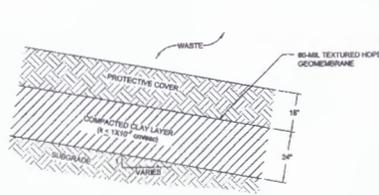
LEGEND

PROPERTY BOUNDARY
LIMIT OF WASTE FOR AREA 1 AND AREA 3 & 4
VERTICAL EXPANSION
APPROXIMATE LIMIT OF WASTE FOR AREA 1, 2, 3, AND 4
EXISTING PHASE BOUNDARY
EXISTING EASEMENTS
EXISTING GEODOMIC CONTOUR
SPOT ELEVATION
EXISTING ROAD
EXISTING WATER LEVEL LIMITS
EXISTING TIE LINE
EXISTING BUILDING
EXISTING SUBGRADE CONTOUR
SUBGRADE CONTOUR
FINISHED GRADE CONTOUR
PROPOSED ROAD
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EXISTING METHANE GAS MONITORING PILES
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DIRECTION OF FLOW BY PRELIMINARY DITCH AND DITCH DESIGNATION
SILT FENCE
FINAL COVER DRAINAGE DITCH
REACH FLOW DIRECTION
IMPROVED AND EXISTING GRADES BEING ENHANCED OR REMOVED
EXISTING COLLECTOR DESIGNATION
PROPOSED COLLECTOR DESIGNATION

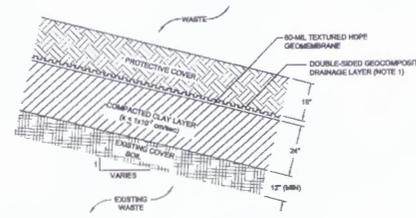
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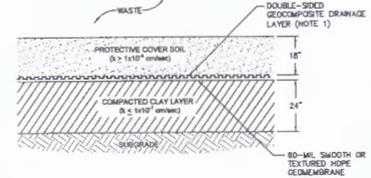
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DETAIL
AREA 5 BASE LINER SYSTEM ON CELL FLOOR
N.T.S.
REF: DET-1, 9, BARE LINER



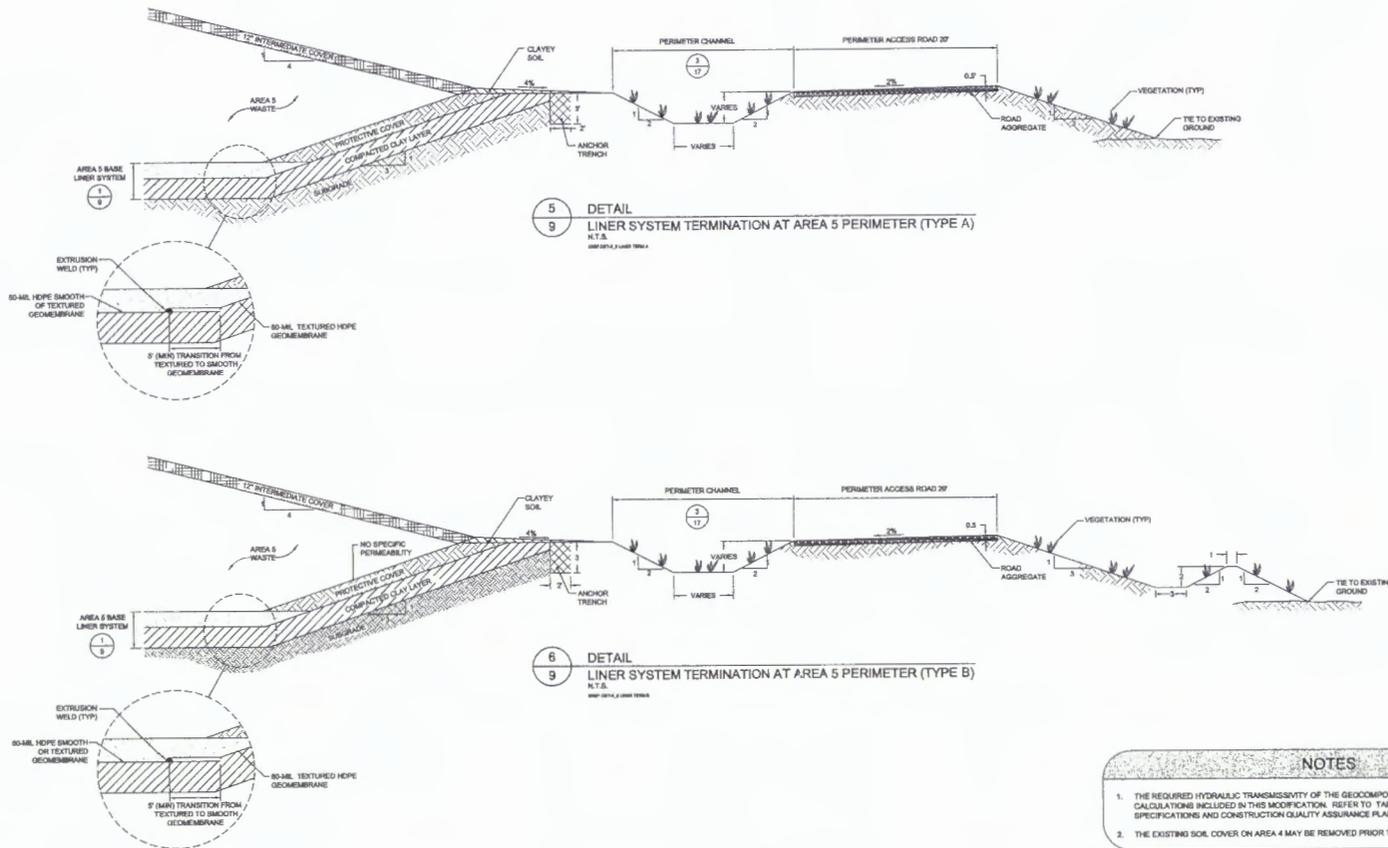
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DETAIL
AREA 5 BASE LINER SYSTEM ON SIDE SLOPE
N.T.S.
REF: DET-1, 9, BARE LINER



3
9
DETAIL
OVERLAY LINER (ON TOP OF AREA 3)
N.T.S.
REF: DET-1, 9, BARE LINER



4
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DETAIL
ALTERNATIVE AREA 5 BASE LINER SYSTEM
N.T.S.
REF: DET-1, 9, BARE LINER



5
9
DETAIL
LINER SYSTEM TERMINATION AT AREA 5 PERIMETER (TYPE A)
N.T.S.
REF: DET-1, 9, BARE LINER

6
9
DETAIL
LINER SYSTEM TERMINATION AT AREA 5 PERIMETER (TYPE B)
N.T.S.
REF: DET-1, 9, BARE LINER

NOTES

1. THE REQUIRED HYDRAULIC TRANSMISSIVITY OF THE GEOCOMPOSITE IS PRESENTED IN THE CALCULATIONS INCLUDED IN THIS MODIFICATION. REFER TO TABLE 144 OF THE MATERIAL SPECIFICATIONS AND CONSTRUCTION QUALITY ASSURANCE PLAN.
2. THE EXISTING SOIL COVER ON AREA 4 MAY BE REMOVED PRIOR TO WASTE PLACEMENT.

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PREPARED BY:
BET WASTE SYSTEMS OF MISSISSIPPI, LLC
A SUBSIDIARY OF:
REPUBLIC SERVICES, INC.

SUBMITTALS & REVISIONS RECORD:

NO.	DATE	DESCRIPTION
1	08/11/17	ISSUE FOR PERMIT
2	08/11/17	ISSUE FOR PERMIT
3	08/11/17	ISSUE FOR PERMIT
4	08/11/17	ISSUE FOR PERMIT
5	08/11/17	ISSUE FOR PERMIT
6	08/11/17	ISSUE FOR PERMIT
7	08/11/17	ISSUE FOR PERMIT
8	08/11/17	ISSUE FOR PERMIT
9	08/11/17	ISSUE FOR PERMIT



THIS PLAN IS ONLY VALID IF:
1. THE PROJECT IS CONSTRUCTED IN ACCORDANCE WITH THE PERMIT.
2. THE PROJECT IS CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AND CONSTRUCTION QUALITY ASSURANCE PLAN.
3. THE PROJECT IS CONSTRUCTED IN ACCORDANCE WITH THE MODIFICATION.
4. THE PROJECT IS CONSTRUCTED IN ACCORDANCE WITH THE MODIFICATION.
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8. THE PROJECT IS CONSTRUCTED IN ACCORDANCE WITH THE MODIFICATION.
9. THE PROJECT IS CONSTRUCTED IN ACCORDANCE WITH THE MODIFICATION.

LINER SYSTEM DETAILS I
MAJOR MODIFICATION
BIG RIVER LANDFILL
WASHINGTON COUNTY, MISSISSIPPI

PROJECT NUMBER:
ESTIMATE NUMBER:
9

