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water resources / environmental consultants

2015 ANNUAL ENGINEERING INSPECTION REPORT

PLUM POINT ENERGY STATION CLASS 3N LANDFILL

PERMIT NO. 0303-S3N
AFIN: 47-00461

JANUARY 15, 2016

PLUM POINT ENERGY STATION
CLASS 3N LANDFILL
2015 ANNUAL ENGINEERING INSPECTION REPORT

PERMIT NO. 0303-S3N
AFIN: 47-00461

Prepared for

Plum Point Services Company, LLC
2732 County Road 623
Osceola, AR 72370

Prepared by

FTN Associates, Ltd.
3 Innwood Circle, Suite 220
Little Rock, AR 72211

FTN No. R14590-1102-001

January 15, 2016

PROFESSIONAL ENGINEER'S CERTIFICATION

This report on the annual engineering inspection of the Plum Point Energy Station Class 3N Landfill and supporting documentation was prepared under the direction and supervision of a qualified, State of Arkansas-registered Professional Engineer. Mr. Jason Ghidotti, PE, of FTN Associates, Ltd. (FTN), was responsible for the overall preparation of this report. The report has been prepared to fulfill the requirements of §257.84(b). Based on the inspection of the landfill facility and review of available landfill documents the design, construction, operation, and maintenance of the landfill is generally consistent with recognized and generally accepted good engineering standards.

Jason Ghidotti, PE, Arkansas License No. 10031 — Date

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1.0 INTRODUCTION

1.1 Purpose of Report

The purpose of this report is to document the annual inspection of the Plum Point Energy Station (the Plant) landfill facility in accordance with *§257, Subpart D - Standards for the Disposal of Coal Combustion Residuals (CCR) in Landfills and Surface Impoundments* (the CCR Rule). In particular, the report has been prepared to comply with §257.84(b), which requires an inspection to be conducted by a qualified professional engineer to ensure that the design, construction, operation, and maintenance of the landfill is consistent with recognized and generally accepted good engineering standards.

The report includes the following:

- Information on the current layout of the landfill,
- Waste volume estimates for the amount of waste contained in the landfill and remaining disposal capacity, and
- An assessment of the landfill including structural integrity and overall operations with respect to the CCR Rule and the facility permit requirements.

1.2 Plum Point Energy Station Information

The Plum Point Services Company, LLC (PPSC) Plum Point Energy Station (the Plant, PPES) Class 3N Landfill (the Landfill) is located in Mississippi County, approximately 2 miles southeast of Osceola, Arkansas. The 245-acre solid waste management facility is located within the Plant boundaries. The location of the facility is shown on Figure 1 (all figures are located in Appendix A). The site is characterized by flat terrain and is situated within the Mississippi River floodplain. The Plant is located in an agricultural and industrial area.

PPSC is the owner of the landfill facility but uses a contractor to operate the Landfill for disposal of CCR materials generated at the Plant and general maintenance of the landfill facility.

The Plant generates electricity through the combustion of coal, which produces CCR materials that are captured through the facility air emission control systems and placed in the

onsite landfill. The CCRs consist of bottom ash, economizer ash, fly ash, and coal pulverizer rejects.

The bottom ash is the coarsest fraction of the coal ash and is collected in a water-filled trough beneath the steam generation furnace. Bottom ash is composed of angular, glassy particles with a porous surface texture and has the consistency of coarse sand. Coal pulverizer rejects are periodically sluiced to the collection trough beneath the boiler furnaces along with the bottom ash. The economizer ash is the heavier fraction of fly ash and is collected in hoppers and is periodically transferred via dry flight conveyors to a submerged flight conveyor that carries the bottom ash, economizer ash, and coal pulverizer rejects to a concrete basin called the "Bottom Ash Stockout Area." The collected materials are periodically loaded into haul trucks and taken to the Landfill.

The largest fraction of the CCR material generated from the coal combustion process is fly ash. The fly ash is composed of very fine particles similar to glass and has the consistency of a powder. The plant has a fly ash collection system that captures dry air heater ash and dry scrubber ash in a series of fabric filter and air heater hoppers. The collected material is conveyed to a large silo, which is periodically unloaded into haul trucks and transferred to the Landfill.

The Plant air emission controls include a dry Flue Gas Desulfurization (FGD) system and an activated carbon injection system. The FGD system is designed to cool down the flue gas and remove sulfur dioxide and particulate matter from the gases emitted from the coal-fired boiler. This is accomplished by a chemical reaction using a slurry of calcium hydroxide with the flue gases, while simultaneously allowing the hot flue gases to dry the reaction products (calcium sulfite, calcium sulfate, calcium chloride, and calcium fluoride). The dry reaction products are collected with the fly ash materials in a fabric filter hopper system. The activated carbon injection system removes mercury from the gases emitted from the coal-fired boiler. The mercury combines chemically with powdered activated carbon and is removed in the same filter system as the fly ash and dry scrubber ash.

The used FGD lime slurry is collected and reused within the FGD system. The retained solids are containerized and periodically transported to the Ash Containment Area, and then to the onsite landfill.

Water is pumped from the Mississippi River and clarified to become either cooling tower makeup water or service water for plant use. The sludge generated from this process is conveyed to a filter press where the solids are containerized and periodically transported to the onsite landfill. The filtrate from this process is pumped back to the clarifiers for treatment.

Although it varies greatly, the Plant generates approximately 500,000 tons of fly ash, bottom ash, and filter cake per year, of which approximately 85% is fly ash, 10% is bottom ash, and 5% is filter cake. The amount placed in the Landfill also varies from year to year, but the average for the past 5 years is approximately 150,000 cubic yards (cy), in-place volume.

The permitted landfill area is located west of the plant site as shown on Figure 2. The landfill is permitted to have 12 disposal areas, varying in size from 15 to 9 acres.

1.3 Permit History

In July 2001, Genesis Environmental Consulting, Inc. (GEC) submitted an application on behalf of Plum Point Energy Associates, LLC, to the Arkansas Department of Environmental Quality (ADEQ) for a solid waste disposal facility at the PPES. In October 2002, ADEQ issued a solid waste permit (0303-S3N) to construct and operate the proposed Class 3N facility.

Prior to construction of the landfill, GEC submitted a minor permit modification application in November 2005 to revise the final landfill grading plan, stormwater control plan, bottom grading plan, earthwork balance calculations, and Construction Quality Assurance (CQA) Plan. The application also included the request for an alternative bottom liner design. ADEQ requested the inclusion of a leachate collection system and Terracon Consultants, Inc. (which had purchased GEC) submitted revised permit documents in July 2006. ADEQ approved the minor permit modification in September 2006. Cell 1 of the landfill and the western stormwater pond were constructed in 2008. The Plant and the Landfill began operation in March 2010.

Since beginning operation, the landfill constructed an adjacent cell, Cell 3, in 2014 and began placing waste in the new cell in 2015.

2.0 LANDFILL LAYOUT

2.1 Existing Conditions of Landfill

The PPES Class 3N Landfill is approximately 173 acres in size and has been designed to have 12 waste disposal cells (Figure 1, Appendix A). Cells 1 through 10 are about 15 acres in size with approximate dimensions of 1,000 ft by 660 ft. Cells 11 and 12 are narrower and smaller than the remaining cells to accommodate a potential archeological concern located east of the Landfill. Cell 11 is about 9.6 acres (450 ft by 1,000 ft) and Cell 12 is about 10.8 acres (500 ft by 1,000 ft). The permitted disposal capacity (air space) is 22,400,000 cubic yards.

The Landfill has been designed to meet Arkansas Pollution Control and Ecology Commission Regulation No. 22 standards. The bottom of the Landfill is divided to slope north or south to leachate collection sumps. The elevation of the bottom varies from 245 ft National Geodetic Vertical Datum (NGVD) in the center of the Landfill to 230 ft NGVD at the collection sump. The final surface of the Landfill has 4:1 (horizontal to vertical) slopes up to elevation 335 ft NGVD and then slopes at 5% to elevation 365 ft NGVD (Figure 3).

The bottom liner system for Waste Cells 1 and 3 were prepared in accordance with the 2002 permit for the facility (i.e., 12-inch minimum thickness compacted clay liner with a maximum hydraulic conductivity of 1×10^{-7} cm/sec, a 60-mil HDPE liner and a leachate collection system).

No final cover system has been installed on Waste Cells 1 and 3. However, as shown on Figure 1, the west, north, and south slopes of Cell 1 have received interim soil cover.

2.2 Changes Made to Landfill Configuration During Reporting Period

During 2015, the facility began utilization of the new Cell 3, which will eventually allow waste to be placed at higher elevations in the adjacent Cell 1, increasing its operational capacity.

The landfill manager that works for the contracted landfill management company, Charah, reported additional improvements during the year. Of note is installation of a new leachate forcemain from Cell 1 to the onsite collection tanks.

To prepare for the new CCR rule, Charah staff that are responsible for the landfill facility were trained on conducting weekly inspections, copies of which are included in Appendix B. The inspections began in October 2015 in accordance with the CCR Rule. It appears that the inspections these were done by the same inspector from Charah during October, November and December. It is recommended that the inspector be alternated and inspections reviewed by all necessary personnel.

3.0 WASTE VOLUME CALCULATIONS

The landfill facility has been surveyed annually since 2010. Each year's survey is compared to the previous year to compute the amount of CCR disposed. The current survey is also compared to the permitted top of waste elevations to determine remaining capacity, or airspace. Additionally, the current survey is compared to an estimated "operational" top of waste to determine the remaining operational capacity. The operational top of waste is the maximum disposal elevation that can be achieved within the open cells while maintaining the required 4:1 exterior and 3:1 interior slopes along with a top width sufficient for disposal activities. If additional operational capacity is needed, construction of an adjacent disposal cell will be required.

Disposal rates for the facility are calculated using the average of the disposal rates from the five most recent years. Disposal rates depend upon CCR production at the plant and sales of the ash, if any. These can vary significantly year to year based upon the current economic climate, weather, and how much the plant is operational.

For the reporting year of 2015, the active disposal areas of the landfill were surveyed on May 7, 2015 and again on December 22, 2015, a period of approximately eight months. A comparison of surface models developed from these surveys as well as the operational top of waste is summarized in Table 3.1, below. Current disposal activities resulted in a net fill of approximately 87,600 cubic yards of ash in the active disposal area during the eight-month period.

Table 3.1 Summary of waste volume calculations.

Cell Number	Status	Area (ac)	Permitted Waste Capacity (cy)	2015 Volume Placed* (cy)	Total Volume Placed (cy)	Operational Remaining Disposal Capacity (cy)	Operational Remaining Life (years)
Cell 1	Active	15.5	1,607,400	20,650	858,200	283,000	1.9
Cell 3	Active	13.6	2,191,700	66,660	66,700	1,142,200	7.5
Totals		**29.1**	**3,799,100**	**87,310**	**924,900**	**1,425,200**	**9.3**

* Volume filled during the 8-month period of May through December 2015.

The 5-year average disposal rate, including 2015, is approximately 153,000 cubic yards per year, in-place volume. At this rate, the calculated available airspace, 1,425,200 cubic yards, provides approximately 9 years of remaining operation capacity before a new disposal cell must be opened.

4.0 ASSESSMENT OF LANDFILL FACILITY

This section of the report provides a summary of the inspection of the Plum Point Landfill facility that was conducted on December 17, 2015. The assessment included an interview with the landfill operating company (Charah) personnel, review of weekly inspections of the facility, review of documents pertaining to the operation and compliance of the landfill, and an onsite inspection of the landfill facility. Copies of the Weekly Inspection Reports are included in Appendix B. Photographs of the site inspection are included in Appendix C.

4.1 General Operations

Active disposal during 2015 was conducted primarily at the top of Cell 1 and proceeding east into Cell 3.

The side-slopes of the landfill are generally at the required 4:1 external and 3:1 interior slope requirements. Much of the western, northern, and southern slopes of Cell 1 have been covered with interim soil cover and are well vegetated.

The elevated disposal area in Cell 1 is surrounded by berms for safety and to reduce effects of wind, as described in Section 4.7, below. It appears that some sections of these berms have been raised as the level of ash in the active areas rises. This has created steeper slopes near the top of the side slopes of the landfill. These were noted to the landfill manager who will regrade the affected upper slopes as soon as weather conditions allow. Charah also plans to place interim cover on these slopes, once graded.

No tension cracks, seeps, or other features that indicate a potential slope failure were observed during the site inspection. In addition, no active seeps were noted on the exterior slopes.

The general operations of the landfill facility are being done in a safe manner and the overall maintenance of the facility is in good condition.

4.2 Landfill Cover System

As noted, no final cover system has been installed on Waste Cells 1 and 3. Figure 3 presents contours for the currently permitted final cover system.

Both active cells remain open. Interim cover soil has been placed, as noted, on the western, southern and northern side slopes of Cell 1. The landfill manager plans to begin installation of additional interim cover in 2016.

4.3 Leachate Collection System

Waste Cells 1 and 3 do have leachate collection systems. The cells are graded to drain to sumps in each cell from which leachate is pumped via dual-contained transmission lines to onsite storage tanks. From there the leachate is recirculated to the active cells for dust control or is loaded to trucks for reuse in the Plant's FGD lime slurry system or disposal at an offsite treatment facility. Improvements were made to the leachate transmission lines during 2015 to increase pumping efficiencies.

4.4 Stormwater Control System

Stormwater at the landfill site flows west to the stormwater pond on the western side of Cell 1. To prevent run-on, a stormwater channel and berm was constructed along the north side of the landfill, routing stormwater west around the landfill. Additionally, clay perimeter berms prevent both run-on and run-off. Stormwater from the covered slopes drains to the onsite stormwater pond located west of Cell 1. Stormwater channels, culverts and discharge structures were in good operational condition.

The facility is permitted to discharge stormwater under NPDES General Landfill Stormwater Permit No. ARG160042, as issued by the ADEQ effective April 30, 2009, and renewed March 1, 2015.

4.5 Facility Roads

Facility perimeter and access roads were generally well maintained and allow all-weather access.

4.6 Fugitive Dust Control

The facility is operated as outlined by the CCR Fugitive Dust Control Plan, prepared in October 2015.

Fly ash is transported to the landfill using end-dump trucks with tarps. The ash is mixed with water in the pug mill at an appropriate ration to minimize fugitive dust problems during truck loading and dumping, but not create excess free liquids. Water is applied, when necessary, for dust suppression on roads and the landfill using a water truck.

Speed limit signs were posted along the main haul road to the Landfill.

APPENDIX A

Figures

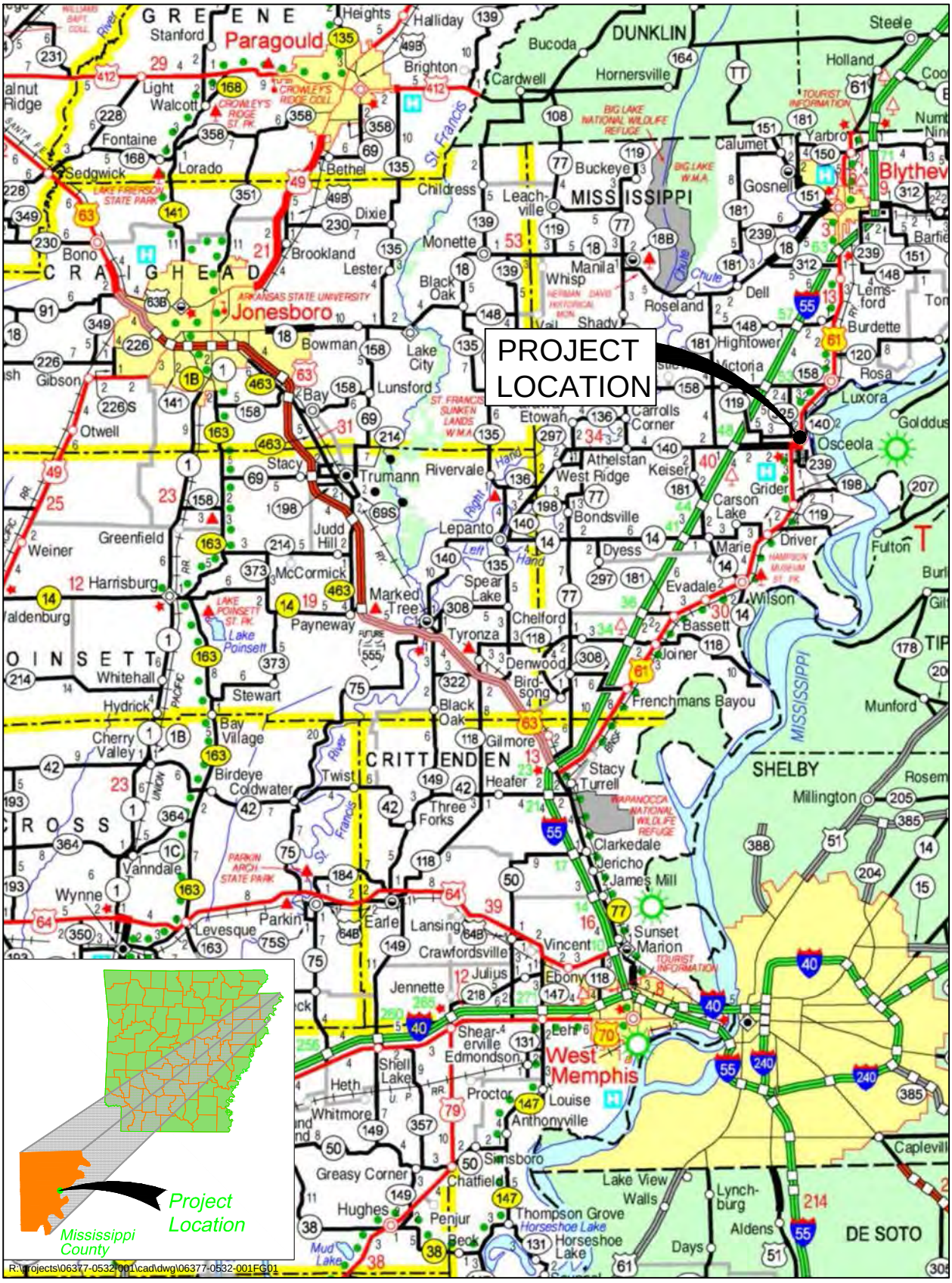

Figure 1. Site location map.

LEGEND

- WASTE CELL BOUNDARY
- EXISTING PERMITTED BOUNDARY
- 230 EXISTING INDEX CONTOUR (5-FT)
- EXISTING INTERMEDIATE CONTOUR (1-FT)
- EXISTING GRAVEL ROAD
- EXISTING FENCE
- EXISTING POWER POLE
- OHE EXISTING OVERHEAD ELECTRIC LINE
- N 488400 LANDFILL GRID MARKER

N

SCALE 1"=150'

NOTE:

TOPOGRAPHIC INFORMATION IS FROM SURVEYS CONDUCTED BY HARMON SURVEYING, INC. ON OCTOBER 2014 (CELL 3), DECEMBER 2015 (CELLS 1 AND 3) AND OCTOBER 2011.

FTN Associates, Ltd. water resources | environmental | consultants

CERTIFICATE OF AUTHORIZATION FTN Associates, Ltd. No. 63 ARKANSAS - ENGINEER

STATE OF ARKANSAS JASON J. GHIDOTTI REGISTERED PROFESSIONAL ENGINEER No. 10031 01-15-16

PLUM POINT SERVICES COMPANY, LLC

PLUM POINT ENERGY STATION CLASS 3N LANDFILL

2015 ANNUAL ENGINEERING INSPECTION REPORT

OSCEOLA, ARKANSAS

FIGURE 2
EXISTING CONDITIONS

DRAWN BY: JJS	FILE NAME: FG02.DWG
APPROVED: JJS	PROJECT NO. 14590-1102-001
SCALE: 1" = 150'	DATE: 01/14/2016
SHEET NO. 1 OF 1	

R:\PROJECT\14590-1102-001\CAD\DWG\14590-1102-001FG02.DWG

LEGEND

- EXISTING PERMITTED BOUNDARY
- 230 EXISTING INDEX CONTOUR (5-FT)
- EXISTING INTERMEDIATE CONTOUR (1-FT)
- EXISTING GRAVEL ROAD
- EXISTING FENCE
- EXISTING POWER POLE
- EXISTING OVERHEAD ELECTRIC LINE
- PROPERTY LINE
- 235 PROPOSED TOP OF FINAL COVER CONTOURS (5-FT)
- MW-2 GROUNDWATER MONITORING WELL

N

0 150 300
SCALE 1"=300'

NOTE:

TOPOGRAPHIC INFORMATION IS FROM SURVEYS CONDUCTED BY HARMON SURVEYING, INC. IN OCTOBER 2014 (CELL 3), DECEMBER 2015 (CELLS 1 AND 3) AND OCTOBER 2011.

FTN Associates, Ltd. water resources | environmental consultants

CERTIFICATE OF AUTHORIZATION
FTN Associates, Ltd
No. 63
ARKANSAS - ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 10031
JASON J. GHIDOTTI
01-15-16

PLUM POINT SERVICES COMPANY, LLC

PLUM POINT ENERGY STATION CLASS 3N LANDFILL
2015 ANNUAL ENGINEERING INSPECTION REPORT
OSCEOLA, ARKANSAS

FIGURE 3
PERMITTED FINAL COVER

DRAWN BY: gjb	FILE NAME: FG03.DWG
APPROVED: gjb	PROJECT NO. 14590-1102-001
SCALE: 1" = 150'	DATE: 01/14/2016
SHEET NO. 1 OF 1	

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APPENDIX B

Copies of Weekly Landfill Inspections

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill		
Facility Address: 2732 South County Road 623, Osceola, AR 72370		
Date: 10-20-15	Time: 9:45	Weather: Clear
Inspection Representatives		
Charah:		
Others:		

Weekly Inspection Observations	Acceptable	Needs Improvement	Comments (See Page 2 for Additional Comments)
1. General Operating Issues			
1a. General stability of landfill slopes	✓		
1b. Condition of exposed waste slopes		✓	South, West, NORL Slopes
1c. Condition of exposed waste grading	✓		
1d. Signs of erosion or washouts	✓		
1e. Signs of leachate seeps	✓		
1f. Condition of dust control measures	✓		
1g. Condition of landfill signage	✓		
2. Cover System			
2a. Condition of interim cover	✓		
2b. Condition of final cover	N/A		
2c. Condition of vegetation	✓		
2d. Condition of erosion control devices	✓		
3. Leachate Collection and Storage System			
3a. Condition of leachate pumps	✓		
3b. Condition of leachate control panels	✓		
3c. Status of leachate levels in disposal cells	✓		
3d. Condition of leachate collection piping	✓		
3e. Condition of cleanouts and headwalls	✓		
3f. Condition of leachate transmission piping	✓		
3g. Condition of leachate storage system			
4. Stormwater Control Facilities			
4a. Condition of culverts	✓		
4b. Condition of ditches	✓		
4c. Condition of diversion berms	✓		
4d. Condition of letdowns	N/A		
4e. Condition of stormwater ponds	✓		
5. Groundwater Monitoring Wells			
5a. Condition of well casings and locks	✓		
5b. Condition of well pads and pipe bollards	✓		
5c. Access to wells	✓		
6. Landfill Access Roads			
6a. Condition of main access road	✓		
6b. Condition of active disposal area access road	✓		
6c. Acceptable dust control measures	✓		
7. Other Items			
7a.			
7b.			

Print Name of Inspector Completing Form	Signature	Date
Brian Mangrum		

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill
Facility Address: 2732 South County Road 623, Osceola, AR 72370
Additional Comments: The Southern, Western, And North Slope of cell one Need To be Put To grade And have Interim cover placed up To the Top so that water can be directed To The storm water Pond.

Print Name of Inspector Completing Form	Signature	Date
Brian Mangrum	Brian Mangrum	10-20-15

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill		
Facility Address: 2732 South County Road 623, Osceola, AR 72370		
Date: 12-23-15	Time: 10:25	Weather: Cloudy
Inspection Representatives		
Charah:		
Others:		

Weekly Inspection Observations

	Acceptable	Needs Improvement	Comments (See Page 2 for Additional Comments)
1. General Operating Issues			
1a. General stability of landfill slopes	✓		
1b. Condition of exposed waste slopes		✓	
1c. Condition of exposed waste grading	✓		
1d. Signs of erosion or washouts	✓		
1e. Signs of leachate seeps	✓		
1f. Condition of dust control measures	✓		
1g. Condition of landfill signage	✓		
2. Cover System			
2a. Condition of interim cover	✓		
2b. Condition of final cover	N/A		
2c. Condition of vegetation	✓		
2d. Condition of erosion control devices	✓		
3. Leachate Collection and Storage System			
3a. Condition of leachate pumps	✓		
3b. Condition of leachate control panels	✓		
3c. Status of leachate levels in disposal cells	✓		
3d. Condition of leachate collection piping	✓		
3e. Condition of cleanouts and headwalls	✓		
3f. Condition of leachate transmission piping	✓		
3g. Condition of leachate storage system			
4. Stormwater Control Facilities			
4a. Condition of culverts	✓		
4b. Condition of ditches	✓		
4c. Condition of diversion berms	✓		
4d. Condition of letdowns	N/A		
4e. Condition of stormwater ponds	✓		
5. Groundwater Monitoring Wells			
5a. Condition of well casings and locks	✓		
5b. Condition of well pads and pipe bollards	✓		
5c. Access to wells	✓		
6. Landfill Access Roads			
6a. Condition of main access road	✓		
6b. Condition of active disposal area access road	✓		
6c. Acceptable dust control measures	✓		
7. Other Items			
7a.			
7b.			

Print Name of Inspector Completing Form	Signature	Date
E. Wamble	E. Wamble	

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill
Facility Address: 2732 South County Road 623, Osceola, AR 72370
Additional Comments: The Southern, Western, And Northern Slope Of Cell one Need To be put to Grade And Have Intrim Cover Placed up To the Top So That Water Can Be Directed To Storm Water Pond

E. Wamble	Eddie Wamble	10-23-15
Print Name of Inspector Completing Form	Signature	Date

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill		
Facility Address: 2732 South County Road 623, Osceola, AR 72370		
Date: 10-27-15	Time: 1:00 PM	Weather: RAIN

Inspection Representatives

Charah: BRYAN MANSRUM

Others:

Weekly Inspection Observations

	Acceptable	Needs Improvement	Comments (See Page 2 for Additional Comments)
1. General Operating Issues			
1a. General stability of landfill slopes	✓		
1b. Condition of exposed waste slopes	✓		
1c. Condition of exposed waste grading	✓		
1d. Signs of erosion or washouts	✓		
1e. Signs of leachate seeps	✓		
1f. Condition of dust control measures	✓		
1g. Condition of landfill signage	✓		
2. Cover System			
2a. Condition of interim cover	✓		
2b. Condition of final cover	✓		
2c. Condition of vegetation	✓		
2d. Condition of erosion control devices	✓		
3. Leachate Collection and Storage System			
3a. Condition of leachate pumps		✓	POWER OFF
3b. Condition of leachate control panels		✓	POWER OFF
3c. Status of leachate levels in disposal cells	?	?	UNKNOWN POWER OFF
3d. Condition of leachate collection piping	✓		
3e. Condition of cleanouts and headwalls	✓		
3f. Condition of leachate transmission piping	✓		
3g. Condition of leachate storage system	✓		
4. Stormwater Control Facilities			
4a. Condition of culverts	✓		
4b. Condition of ditches	✓		
4c. Condition of diversion berms	✓		
4d. Condition of letdowns	N/A		
4e. Condition of stormwater ponds	✓		
5. Groundwater Monitoring Wells			
5a. Condition of well casings and locks	✓	✓	MW 1 Needs Bollard Repaired
5b. Condition of well pads and pipe bollards	✓		
5c. Access to wells	✓		
6. Landfill Access Roads			
6a. Condition of main access road	✓		
6b. Condition of active disposal area access road	✓		
6c. Acceptable dust control measures	✓		
7. Other Items			
7a.			
7b.			

Print Name of Inspector Completing Form	Signature	Date
BRYAN MANSRUM	BMM	10-27-15

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill
Facility Address: 2732 South County Road 623, Osceola, AR 72370
Additional Comments: Leachate Levels are unknown at this time due to power out at Headwalls moniter s pumps are inactive at this time. moniter well 1 in NW corner has two bollards down.

Bryan Mansrum	Bryan Mansrum	10-27-15
Print Name of Inspector Completing Form	Signature	Date

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill		
Facility Address: 2732 South County Road 623, Osceola, AR 72370		
Date: 10-30-15	Time: 2:00 PM	Weather: Clear
Inspection Representatives		
Charah: Bryan Mangrum		
Others:		

Weekly Inspection Observations

	Acceptable	Needs Improvement	Comments (See Page 2 for Additional Comments)
1. General Operating Issues			
1a. General stability of landfill slopes	✓		
1b. Condition of exposed waste slopes	✓		
1c. Condition of exposed waste grading	✓		
1d. Signs of erosion or washouts	✓		
1e. Signs of leachate seeps	✓		
1f. Condition of dust control measures	✓		
1g. Condition of landfill signage	✓		
2. Cover System			
2a. Condition of interim cover	✓		
2b. Condition of final cover	~~N/A~~		
2c. Condition of vegetation	✓		
2d. Condition of erosion control devices	✓		
3. Leachate Collection and Storage System			
3a. Condition of leachate pumps	✓		
3b. Condition of leachate control panels		✓	Cell 3
3c. Status of leachate levels in disposal cells	✓		
3d. Condition of leachate collection piping	✓		
3e. Condition of cleanouts and headwalls	✓		
3f. Condition of leachate transmission piping	✓		
3g. Condition of leachate storage system	✓		
4. Stormwater Control Facilities			
4a. Condition of culverts	✓		
4b. Condition of ditches	✓		
4c. Condition of diversion berms	✓		
4d. Condition of letdowns	N/A		
4e. Condition of stormwater ponds	✓		
5. Groundwater Monitoring Wells			
5a. Condition of well casings and locks	✓		
5b. Condition of well pads and pipe bollards		✓	MW 1 Needs bollards
5c. Access to wells	✓		
6. Landfill Access Roads			
6a. Condition of main access road	✓		
6b. Condition of active disposal area access road	✓		
6c. Acceptable dust control measures	✓		
7. Other Items			
7a.			
7b.			

Print Name of Inspector Completing Form	Signature	Date
Bryan Mangrum	Bryan Mangrum	10-30-15

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill		
Facility Address: 2732 South County Road 623, Osceola, AR 72370		
Date: 11-3-15	Time: 3:00	Weather: Cloudy

Inspection Representatives

Charah: BRYAN MANSRUM

Others:

Weekly Inspection Observations

	Acceptable	Needs Improvement	Comments (See Page 2 for Additional Comments)
1. General Operating Issues			
1a. General stability of landfill slopes	✓		
1b. Condition of exposed waste slopes	✓		
1c. Condition of exposed waste grading	✓		
1d. Signs of erosion or washouts	✓		
1e. Signs of leachate seeps	✓		
1f. Condition of dust control measures	✓		
1g. Condition of landfill signage	✓		
2. Cover System			
2a. Condition of interim cover	✓		
2b. Condition of final cover	✓		
2c. Condition of vegetation	✓		
2d. Condition of erosion control devices	✓		
3. Leachate Collection and Storage System			
3a. Condition of leachate pumps	✓		
3b. Condition of leachate control panels	✓		
3c. Status of leachate levels in disposal cells		✓	Cell 1 High Level Sump
3d. Condition of leachate collection piping	✓		
3e. Condition of cleanouts and headwalls	✓		
3f. Condition of leachate transmission piping	✓		
3g. Condition of leachate storage system	✓		
4. Stormwater Control Facilities			
4a. Condition of culverts	✓		
4b. Condition of ditches	✓		
4c. Condition of diversion berms	✓		
4d. Condition of letdowns	N/A		
4e. Condition of stormwater ponds	✓		
5. Groundwater Monitoring Wells			
5a. Condition of well casings and locks	✓		
5b. Condition of well pads and pipe bollards		✓	monitor well 2 Repaired
5c. Access to wells	✓		
6. Landfill Access Roads			
6a. Condition of main access road	✓		
6b. Condition of active disposal area access road	✓		
6c. Acceptable dust control measures	✓		
7. Other Items			
7a.			
7b.			

Print Name of Inspector Completing Form	Signature	Date
BRYAN MANSRUM	[signature]	11-3-15

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill
Facility Address: 2732 South County Road 623, Osceola, AR 72370
Additional Comments: Cell 1 has A Level OF 90.1 due To Power being lost At Headwall Power Restored Pumps Are Running will be At Normal operating level within A couple hours.

Print Name of Inspector Completing Form	Signature	Date
BRYAN MANGRUM	Bryan Mangrum	11-3-15

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill		
Facility Address: 2732 South County Road 623, Osceola, AR 72370		
Date: 11-10-15	Time: 2:00 PM	Weather: Clear

Inspection Representatives

Charah: BRYAN NIANGRUM

Others:

Weekly Inspection Observations

	Acceptable	Needs Improvement	Comments (See Page 2 for Additional Comments)
1. General Operating Issues			
1a. General stability of landfill slopes	✓		
1b. Condition of exposed waste slopes	✓		
1c. Condition of exposed waste grading	✓		
1d. Signs of erosion or washouts	✓		
1e. Signs of leachate seeps	✓		
1f. Condition of dust control measures	✓		
1g. Condition of landfill signage	✓		20 mph Limit Signs Posted
2. Cover System			
2a. Condition of interim cover	✓		
2b. Condition of final cover	N/A		
2c. Condition of vegetation	✓		
2d. Condition of erosion control devices	✓		
3. Leachate Collection and Storage System			
3a. Condition of leachate pumps	✓		
3b. Condition of leachate control panels	✓		
3c. Status of leachate levels in disposal cells	✓		
3d. Condition of leachate collection piping	✓		
3e. Condition of cleanouts and headwalls	✓		
3f. Condition of leachate transmission piping	✓		
3g. Condition of leachate storage system	✓		
4. Stormwater Control Facilities			
4a. Condition of culverts	✓		
4b. Condition of ditches	✓		
4c. Condition of diversion berms	✓		
4d. Condition of letdowns	N/A		
4e. Condition of stormwater ponds	✓		
5. Groundwater Monitoring Wells			
5a. Condition of well casings and locks	✓		
5b. Condition of well pads and pipe bollards		✓	Some Repairs needed
5c. Access to wells			
6. Landfill Access Roads			
6a. Condition of main access road	✓		SRAded THIS WK
6b. Condition of active disposal area access road	✓		
6c. Acceptable dust control measures	✓		
7. Other Items			
7a.			
7b.			

BRYAN NIANGRUM	Bryan Mangrum	10-10-15
Print Name of Inspector Completing Form	Signature	Date

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill
Facility Address: 2732 South County Road 623, Osceola, AR 72370
Additional Comments:

BRYAN MANSRUM Print Name of Inspector Completing Form	BRYAN Mansrum Signature	11-10-15 Date

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill		
Facility Address: 2732 South County Road 623, Osceola, AR 72370		
Date: 11-13-15	Time: 1245	Weather: Clear
Inspection Representatives		
Charah: Bryan Mansrum		
Others:		

Weekly Inspection Observations

	Acceptable	Needs Improvement	Comments (See Page 2 for Additional Comments)
1. General Operating Issues			
1a. General stability of landfill slopes	✓		
1b. Condition of exposed waste slopes	✓		
1c. Condition of exposed waste grading	✓		
1d. Signs of erosion or washouts	✓		
1e. Signs of leachate seeps	✓		
1f. Condition of dust control measures	✓		
1g. Condition of landfill signage	✓		
2. Cover System			
2a. Condition of interim cover	✓		
2b. Condition of final cover	N/A		
2c. Condition of vegetation	✓		
2d. Condition of erosion control devices	✓		
3. Leachate Collection and Storage System			
3a. Condition of leachate pumps	✓		
3b. Condition of leachate control panels	✓		
3c. Status of leachate levels in disposal cells	✓		
3d. Condition of leachate collection piping	✓		
3e. Condition of cleanouts and headwalls	✓		
3f. Condition of leachate transmission piping	✓		
3g. Condition of leachate storage system	✓		
4. Stormwater Control Facilities			
4a. Condition of culverts	✓		
4b. Condition of ditches	✓		
4c. Condition of diversion berms	✓		
4d. Condition of letdowns	N/A		
4e. Condition of stormwater ponds	✓		
5. Groundwater Monitoring Wells			
5a. Condition of well casings and locks	✓		
5b. Condition of well pads and pipe bollards		✓	MW 1 & MW 5 bollards
5c. Access to wells			
6. Landfill Access Roads			
6a. Condition of main access road	✓		
6b. Condition of active disposal area access road	✓		
6c. Acceptable dust control measures	✓		
7. Other Items			
7a.			
7b.			

Print Name of Inspector Completing Form	Signature	Date
Bryan Mansrum	Bryan Mansrum	11-13-15

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill	
Facility Address: 2732 South County Road 623, Osceola, AR 72370	
Additional Comments: MW 7 and 5 neck Pipe bollards Repaired.	

BRYAN MAISEL	Bryan Maisel	11-13-15
Print Name of Inspector Completing Form	Signature	Date

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill		
Facility Address: 2732 South County Road 623, Osceola, AR 72370		
Date: 11-17-15	Time: 2:45	Weather: Cloudy Humid misty

Inspection Representatives

Charah: BRYAN MANSRUM

Others:

Weekly Inspection Observations

	Acceptable	Needs Improvement	Comments (See Page 2 for Additional Comments)
1. General Operating Issues			
1a. General stability of landfill slopes	✓		
1b. Condition of exposed waste slopes	✓		
1c. Condition of exposed waste grading	✓		
1d. Signs of erosion or washouts	✓		
1e. Signs of leachate seeps	✓		
1f. Condition of dust control measures	✓		
1g. Condition of landfill signage	✓		
2. Cover System			
2a. Condition of interim cover	✓		
2b. Condition of final cover	✓		
2c. Condition of vegetation	✓		
2d. Condition of erosion control devices	✓		
3. Leachate Collection and Storage System			
3a. Condition of leachate pumps	✓		
3b. Condition of leachate control panels	✓		
3c. Status of leachate levels in disposal cells	•	✓	HEAVY RAINFALL
3d. Condition of leachate collection piping			
3e. Condition of cleanouts and headwalls	✓		
3f. Condition of leachate transmission piping	✓		
3g. Condition of leachate storage system	✓		
4. Stormwater Control Facilities			
4a. Condition of culverts	✓		
4b. Condition of ditches	✓		
4c. Condition of diversion berms	✓		
4d. Condition of letdowns	N/A		
4e. Condition of stormwater ponds	✓		
5. Groundwater Monitoring Wells			
5a. Condition of well casings and locks	✓		
5b. Condition of well pads and pipe bollards		✓	MW 1 & 5 Need bollard Repair
5c. Access to wells	✓		
6. Landfill Access Roads			
6a. Condition of main access road	✓		
6b. Condition of active disposal area access road	✓		
6c. Acceptable dust control measures	✓		
7. Other Items			
7a.			
7b.			

Print Name of Inspector Completing Form	Signature	Date
BRYAN MANSRUM	Bryan Mansrum	11-17-15

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill
Facility Address: 2732 South County Road 623, Osceola, AR 72370
Additional Comments: Cell 3 is at High Level due To Heavy Rains. monitering well 1 & 5 have Bollard damage

Bryan Mangrum Print Name of Inspector Completing Form	Bryan Mangrum Signature	11-17-15 Date

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill		
Facility Address: 2732 South County Road 623, Osceola, AR 72370		
Date: 11-20-15	Time: 1:45 PM	Weather: Clear
Inspection Representatives		
Charah: Bryan Mangum		
Others:		

Weekly Inspection Observations

	Acceptable	Needs Improvement	Comments (See Page 2 for Additional Comments)
1. General Operating Issues			
1a. General stability of landfill slopes	✓		
1b. Condition of exposed waste slopes	✓		
1c. Condition of exposed waste grading	✓		
1d. Signs of erosion or washouts	✓		
1e. Signs of leachate seeps	✓		
1f. Condition of dust control measures	✓		
1g. Condition of landfill signage	✓		
2. Cover System			
2a. Condition of interim cover	✓		
2b. Condition of final cover	✓		
2c. Condition of vegetation	✓		
2d. Condition of erosion control devices	✓		
3. Leachate Collection and Storage System			
3a. Condition of leachate pumps		✓	Cell 1 Pumping Slow
3b. Condition of leachate control panels	✓		
3c. Status of leachate levels in disposal cells		✓	Cell 3 High
3d. Condition of leachate collection piping	✓		
3e. Condition of cleanouts and headwalls	✓		
3f. Condition of leachate transmission piping	✓		
3g. Condition of leachate storage system	✓		
4. Stormwater Control Facilities			
4a. Condition of culverts	✓		
4b. Condition of ditches	✓		
4c. Condition of diversion berms	✓		
4d. Condition of letdowns	N/A		
4e. Condition of stormwater ponds		✓	Seepage Around overflow
5. Groundwater Monitoring Wells			
5a. Condition of well casings and locks	✓		
5b. Condition of well pads and pipe bollards	✓		MW 2 & 5 bollards Repair
5c. Access to wells	✓		
6. Landfill Access Roads			
6a. Condition of main access road	✓		
6b. Condition of active disposal area access road	✓		
6c. Acceptable dust control measures	✓		
7. Other Items			
7a.			
7b.			

Bryan Mangum Print Name of Inspector Completing Form	Bryan Mangum Signature	11-20-15 Date

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill		
Facility Address: 2732 South County Road 623, Osceola, AR 72370		
Date: 11-24-15	Time: 2150	Weather: Overcast
Inspection Representatives		
Charah: Bryan Mayhew		
Others:		

Weekly Inspection Observations

	Acceptable	Needs Improvement	Comments (See Page 2 for Additional Comments)
1. General Operating Issues			
1a. General stability of landfill slopes	✓		
1b. Condition of exposed waste slopes	✓		
1c. Condition of exposed waste grading	✓		
1d. Signs of erosion or washouts	✓		
1e. Signs of leachate seeps	✓		
1f. Condition of dust control measures	✓		
1g. Condition of landfill signage	✓		
2. Cover System			
2a. Condition of interim cover	✓		
2b. Condition of final cover	N/A		
2c. Condition of vegetation	✓		
2d. Condition of erosion control devices	✓		
3. Leachate Collection and Storage System			
3a. Condition of leachate pumps	✓	✓	Cell 7 Pumping Slow
3b. Condition of leachate control panels	✓		
3c. Status of leachate levels in disposal cells		✓	Cell 3 High Level Sump
3d. Condition of leachate collection piping	✓		
3e. Condition of cleanouts and headwalls	✓		
3f. Condition of leachate transmission piping	✓		
3g. Condition of leachate storage system	✓		
4. Stormwater Control Facilities			
4a. Condition of culverts	✓		
4b. Condition of ditches	✓		
4c. Condition of diversion berms	✓		
4d. Condition of letdowns	N/A		
4e. Condition of stormwater ponds	✓		
5. Groundwater Monitoring Wells			
5a. Condition of well casings and locks	✓		
5b. Condition of well pads and pipe bollards		✓	bollards on 2 & 5 MW
5c. Access to wells	✓		
6. Landfill Access Roads			
6a. Condition of main access road	✓		
6b. Condition of active disposal area access road	✓		
6c. Acceptable dust control measures	✓		
7. Other Items			
7a.			
7b.			

BRYAN MAYHEW Print Name of Inspector Completing Form	Bryan Mayhew Signature	Date

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill		
Facility Address: 2732 South County Road 623, Osceola, AR 72370		
Date: 12-1-15	Time: 8:30 AM	Weather: Overcast

Inspection Representatives

Charah: Bryan Mayer

Others:

Weekly Inspection Observations

	Acceptable	Needs Improvement	Comments (See Page 2 for Additional Comments)
1. General Operating Issues			
1a. General stability of landfill slopes	✓		
1b. Condition of exposed waste slopes	✓		
1c. Condition of exposed waste grading	✓		
1d. Signs of erosion or washouts	✓		
1e. Signs of leachate seeps	✓		
1f. Condition of dust control measures	✓		
1g. Condition of landfill signage	✓		
2. Cover System			
2a. Condition of interim cover	✓		
2b. Condition of final cover	N/A		
2c. Condition of vegetation	✓		
2d. Condition of erosion control devices	✓		
3. Leachate Collection and Storage System			
3a. Condition of leachate pumps	✓		
3b. Condition of leachate control panels	✓		
3c. Status of leachate levels in disposal cells			
3d. Condition of leachate collection piping	✓		
3e. Condition of cleanouts and headwalls	✓		
3f. Condition of leachate transmission piping	✓		
3g. Condition of leachate storage system	✓		
4. Stormwater Control Facilities			
4a. Condition of culverts	✓		
4b. Condition of ditches	✓		
4c. Condition of diversion berms	✓		
4d. Condition of letdowns	N/A		
4e. Condition of stormwater ponds	✓		
5. Groundwater Monitoring Wells			
5a. Condition of well casings and locks	✓		
5b. Condition of well pads and pipe bollards		✓	MW 1, 5 Bollards
5c. Access to wells			
6. Landfill Access Roads			
6a. Condition of main access road	✓		
6b. Condition of active disposal area access road	✓		
6c. Acceptable dust control measures	✓		
7. Other Items			
7a.			
7b.			

Print Name of Inspector Completing Form	Signature	Date
Bryan Mayer	Bryan Mayer	12-1-15

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill		
Facility Address: 2732 South County Road 623, Osceola, AR 72370		
Date: 12-4-15	Time: 9:15	Weather: CLEAR
Inspection Representatives		
Charah:		
Others:		

Weekly Inspection Observations

	Acceptable	Needs Improvement	Comments (See Page 2 for Additional Comments)
1. General Operating Issues			
1a. General stability of landfill slopes	✓		
1b. Condition of exposed waste slopes	✓		
1c. Condition of exposed waste grading	✓		
1d. Signs of erosion or washouts	✓		
1e. Signs of leachate seeps	✓		
1f. Condition of dust control measures	✓		
1g. Condition of landfill signage	✓		
2. Cover System			
2a. Condition of interim cover	N/A ✓	N/A	
2b. Condition of final cover			
2c. Condition of vegetation	✓		
2d. Condition of erosion control devices	✓		
3. Leachate Collection and Storage System			
3a. Condition of leachate pumps	✓		
3b. Condition of leachate control panels	✓		
3c. Status of leachate levels in disposal cells	✓		
3d. Condition of leachate collection piping	✓		
3e. Condition of cleanouts and headwalls	✓		
3f. Condition of leachate transmission piping	✓		
3g. Condition of leachate storage system	✓		
4. Stormwater Control Facilities			
4a. Condition of culverts	✓		
4b. Condition of ditches	✓		
4c. Condition of diversion berms	✓		
4d. Condition of letdowns	N/A		
4e. Condition of stormwater ponds	✓		
5. Groundwater Monitoring Wells			
5a. Condition of well casings and locks	✓		
5b. Condition of well pads and pipe bollards		✓	MW 1, 5 Bollards
5c. Access to wells			
6. Landfill Access Roads			
6a. Condition of main access road	✓		
6b. Condition of active disposal area access road	✓		
6c. Acceptable dust control measures	✓		
7. Other Items			
7a.			
7b.			

E. Wamble	E. Wamble	12-4-15
Print Name of Inspector Completing Form	Signature	Date

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill		
Facility Address: 2732 South County Road 623, Osceola, AR 72370		
Date: 12-8-15	Time: 1:30	Weather: Clear

Inspection Representatives

Charah: BRYAN NIANSRUM

Others:

Weekly Inspection Observations

	Acceptable	Needs Improvement	Comments (See Page 2 for Additional Comments)
1. General Operating Issues			
1a. General stability of landfill slopes	✓		
1b. Condition of exposed waste slopes	✓		
1c. Condition of exposed waste grading	✓		
1d. Signs of erosion or washouts	✓		
1e. Signs of leachate seeps	✓		
1f. Condition of dust control measures	✓		
1g. Condition of landfill signage	✓		
2. Cover System			
2a. Condition of interim cover	✓		
2b. Condition of final cover	N/A		
2c. Condition of vegetation	✓		
2d. Condition of erosion control devices	✓		
3. Leachate Collection and Storage System			
3a. Condition of leachate pumps		✓	Cell 2 Pump is Slowing
3b. Condition of leachate control panels	✓		
3c. Status of leachate levels in disposal cells		✓	Cell 3 High Level
3d. Condition of leachate collection piping	✓		
3e. Condition of cleanouts and headwalls	✓		
3f. Condition of leachate transmission piping	✓		
3g. Condition of leachate storage system	✓		
4. Stormwater Control Facilities			
4a. Condition of culverts	✓		
4b. Condition of ditches	✓		
4c. Condition of diversion berms	✓		
4d. Condition of letdowns	N/A		
4e. Condition of stormwater ponds	✓		
5. Groundwater Monitoring Wells			
5a. Condition of well casings and locks	✓		
5b. Condition of well pads and pipe bollards		✓	MW 7 & 5 bollard Repair
5c. Access to wells	✓		
6. Landfill Access Roads			
6a. Condition of main access road	✓		
6b. Condition of active disposal area access road	✓		
6c. Acceptable dust control measures	✓		
7. Other Items			
7a.			
7b.			

BRYAN NIANSEN	Bryan Mans	12-8-15
Print Name of Inspector Completing Form	Signature	Date

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill		
Facility Address: 2732 South County Road 623, Osceola, AR 72370		
Date: 12-11-15	Time: 2:15	Weather: Partly Cloudy
Inspection Representatives		
Charah: E. Wamble		
Others:		

Weekly Inspection Observations

	Acceptable	Needs Improvement	Comments (See Page 2 for Additional Comments)
1. General Operating Issues			
1a. General stability of landfill slopes	✓		
1b. Condition of exposed waste slopes	✓		
1c. Condition of exposed waste grading	✓		
1d. Signs of erosion or washouts	✓		
1e. Signs of leachate seeps	–		
1f. Condition of dust control measures	✓		
1g. Condition of landfill signage	–		
2. Cover System			
2a. Condition of interim cover	✓		
2b. Condition of final cover	✓		
2c. Condition of vegetation	✓		
2d. Condition of erosion control devices	✓		
3. Leachate Collection and Storage System			
3a. Condition of leachate pumps	✓		
3b. Condition of leachate control panels	✓		
3c. Status of leachate levels in disposal cells	✓		
3d. Condition of leachate collection piping	✓		
3e. Condition of cleanouts and headwalls	✓		
3f. Condition of leachate transmission piping	✓		
3g. Condition of leachate storage system	✓		
4. Stormwater Control Facilities			
4a. Condition of culverts	✓		
4b. Condition of ditches	–		
4c. Condition of diversion berms	✓		
4d. Condition of letdowns	N/A		
4e. Condition of stormwater ponds			
5. Groundwater Monitoring Wells			
5a. Condition of well casings and locks	✓		
5b. Condition of well pads and pipe bollards		✓	MW 1 & 5 Bollard Repair
5c. Access to wells	✓		
6. Landfill Access Roads			
6a. Condition of main access road	✓		
6b. Condition of active disposal area access road	✓		
6c. Acceptable dust control measures	–		
7. Other Items			
7a.			
7b.			

E. Wamble Print Name of Inspector Completing Form	E. Wamble Signature	12-11-15 Date

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill		
Facility Address: 2732 South County Road 623, Osceola, AR 72370		
Date: 12-15-15	Time: 1220	Weather: Sunny & Clear
Inspection Representatives		
Charah: Bryan Mansrum		
Others:		

Weekly Inspection Observations			
	Acceptable	Needs Improvement	Comments (See Page 2 for Additional Comments)
1. General Operating Issues			
1a. General stability of landfill slopes	✓		
1b. Condition of exposed waste slopes	✓		
1c. Condition of exposed waste grading	✓		
1d. Signs of erosion or washouts	✓		
1e. Signs of leachate seeps	✓		
1f. Condition of dust control measures	✓		
1g. Condition of landfill signage	✓		
2. Cover System			
2a. Condition of interim cover	✓		
2b. Condition of final cover	N/A		
2c. Condition of vegetation	✓		
2d. Condition of erosion control devices	✓		
3. Leachate Collection and Storage System			
3a. Condition of leachate pumps		✓	Cell 1 Pumping Slow
3b. Condition of leachate control panels	✓		
3c. Status of leachate levels in disposal cells		✓	Cell 3 High Level
3d. Condition of leachate collection piping	✓		
3e. Condition of cleanouts and headwalls	✓		
3f. Condition of leachate transmission piping	✓		
3g. Condition of leachate storage system	✓		
4. Stormwater Control Facilities			
4a. Condition of culverts	✓		
4b. Condition of ditches	✓		
4c. Condition of diversion berms	✓		
4d. Condition of letdowns	N/A		
4e. Condition of stormwater ponds	✓		
5. Groundwater Monitoring Wells			
5a. Condition of well casings and locks	✓		
5b. Condition of well pads and pipe bollards		✓	MW 1 & 5 Need Repair
5c. Access to wells	✓		
6. Landfill Access Roads			
6a. Condition of main access road	✓		
6b. Condition of active disposal area access road	✓		
6c. Acceptable dust control measures	✓		
7. Other Items			
7a.			
7b.			

Bryan Mansrum	Bryan Mansrum	12-15-15
Print Name of Inspector Completing Form	Signature	Date

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill		
Facility Address: 2732 South County Road 623, Osceola, AR 72370		
Date: 12-18-15	Time: 11:00	Weather: overcast
Inspection Representatives		
Charah:		
Others:		

Weekly Inspection Observations

	Acceptable	Needs Improvement	Comments (See Page 2 for Additional Comments)
1. General Operating Issues			
1a. General stability of landfill slopes	✓		
1b. Condition of exposed waste slopes	✓		
1c. Condition of exposed waste grading	✓		
1d. Signs of erosion or washouts	✓		
1e. Signs of leachate seeps	✓		
1f. Condition of dust control measures	✓		
1g. Condition of landfill signage	✓		
2. Cover System			
2a. Condition of interim cover	✓		
2b. Condition of final cover	N/A		
2c. Condition of vegetation	✓		
2d. Condition of erosion control devices	✓		
3. Leachate Collection and Storage System			
3a. Condition of leachate pumps		✓	Cell 1 Pumping slow
3b. Condition of leachate control panels	✓		
3c. Status of leachate levels in disposal cells		✓	Cell 3 High Level
3d. Condition of leachate collection piping	✓		
3e. Condition of cleanouts and headwalls	✓		
3f. Condition of leachate transmission piping	✓		
3g. Condition of leachate storage system	✓		
4. Stormwater Control Facilities			
4a. Condition of culverts	✓		
4b. Condition of ditches	✓		
4c. Condition of diversion berms	✓		
4d. Condition of letdowns	N/A		
4e. Condition of stormwater ponds	✓		
5. Groundwater Monitoring Wells			
5a. Condition of well casings and locks	✓		
5b. Condition of well pads and pipe bollards		✓	MW 5 Bollards
5c. Access to wells	✓		
6. Landfill Access Roads			
6a. Condition of main access road	✓		
6b. Condition of active disposal area access road	✓		
6c. Acceptable dust control measures	✓		
7. Other Items			
7a.			
7b.			

Print Name of Inspector Completing Form	Signature	Date
Brian Musgrave	Brian Musgrave	

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill		
Facility Address: 2732 South County Road 623, Osceola, AR 72370		
Date: 12-22-15	Time: 2:00	Weather: Clear
Inspection Representatives		
Charah: BRYAN MAYZUM		
Others:		

Weekly Inspection Observations

	Acceptable	Needs Improvement	Comments (See Page 2 for Additional Comments)
1. General Operating Issues			
1a. General stability of landfill slopes	✓		
1b. Condition of exposed waste slopes	✓		
1c. Condition of exposed waste grading	✓		
1d. Signs of erosion or washouts	✓		
1e. Signs of leachate seeps	✓		
1f. Condition of dust control measures	✓		
1g. Condition of landfill signage	✓		
2. Cover System			
2a. Condition of interim cover	✓		
2b. Condition of final cover	N/A		
2c. Condition of vegetation	✓		
2d. Condition of erosion control devices	✓		
3. Leachate Collection and Storage System			
3a. Condition of leachate pumps		✓	Cell 1 Pumps Slow
3b. Condition of leachate control panels	✓		
3c. Status of leachate levels in disposal cells		✓	Cell 3 High Level @ Sump
3d. Condition of leachate collection piping	✓		
3e. Condition of cleanouts and headwalls	✓		
3f. Condition of leachate transmission piping	✓		
3g. Condition of leachate storage system	✓		
4. Stormwater Control Facilities			
4a. Condition of culverts	✓		
4b. Condition of ditches	✓		
4c. Condition of diversion berms	✓		
4d. Condition of letdowns	N/A		
4e. Condition of stormwater ponds	✓		
5. Groundwater Monitoring Wells			
5a. Condition of well casings and locks	✓		
5b. Condition of well pads and pipe bollards		✓	MW 1 & 5 need Bolted Repair
5c. Access to wells	✓		
6. Landfill Access Roads			
6a. Condition of main access road	✓		
6b. Condition of active disposal area access road	✓		
6c. Acceptable dust control measures	✓		
7. Other Items			
7a.			
7b.			

Print Name of Inspector Completing Form	Signature	Date
BRYAN MAYZUM	BRYAN MAYZUM	12-22-15

PLUM POINT SERVICES COMPANY CLASS 3N LANDFILL
WEEKLY LANDFILL INSPECTION FORM

Facility Name: Plum Point Energy Station, Class 3N Landfill		
Facility Address: 2732 South County Road 623, Osceola, AR 72370		
Date: 12-28-15	Time: 11:00	Weather: Rain Forecast Today

Inspection Representatives

Charah:

Others:

Weekly Inspection Observations

	Acceptable	Needs Improvement	Comments (See Page 2 for Additional Comments)
1. General Operating Issues			
1a. General stability of landfill slopes	✓		
1b. Condition of exposed waste slopes	✓		
1c. Condition of exposed waste grading	✓		
1d. Signs of erosion or washouts	✓		
1e. Signs of leachate seeps	✓		
1f. Condition of dust control measures	✓		
1g. Condition of landfill signage	✓		
2. Cover System			
2a. Condition of interim cover	✓		
2b. Condition of final cover	N/A		
2c. Condition of vegetation	✓		
2d. Condition of erosion control devices	✓		
3. Leachate Collection and Storage System			
3a. Condition of leachate pumps		✓	Cell 1 Pumping Slow
3b. Condition of leachate control panels	✓		
3c. Status of leachate levels in disposal cells		✓	Cell 3 High Level
3d. Condition of leachate collection piping	✓		
3e. Condition of cleanouts and headwalls	✓		
3f. Condition of leachate transmission piping	✓		
3g. Condition of leachate storage system	✓		
4. Stormwater Control Facilities			
4a. Condition of culverts	✓		
4b. Condition of ditches	✓		
4c. Condition of diversion berms	✓		
4d. Condition of letdowns	N/A		
4e. Condition of stormwater ponds	✓		
5. Groundwater Monitoring Wells			
5a. Condition of well casings and locks	✓		
5b. Condition of well pads and pipe bollards		✓	bollard on MW 1 & 5 Need Repair
5c. Access to wells	✓		
6. Landfill Access Roads			
6a. Condition of main access road	✓		
6b. Condition of active disposal area access road	✓		
6c. Acceptable dust control measures	✓		
7. Other Items			
7a.			
7b.			

Print Name of Inspector Completing Form	Signature	Date
Bryan Marsh		12-28-15

APPENDIX C

Photos of Annual Engineering Inspection

Photo 1: Cell 3 disposal area, Cell 1 from east

Photo 2: Cell 3 active disposal area, Cell 1 from east

Photo 6: Side slope of landfill, typical of north and west sides of Cell 1

Photo 7: Upper section of Cell 1 west slope, above interim cover

Photo 8: Top of Cell 1, edge berms and chimney drain

Photo 9: Cell 3 northwest chimney drain

Photo 10: Cell 3 stormwater separation berm, from east

Photo 11: Typical leachate pumping system, Cell 1

Photo 3: Typical 'Limit of Waste' and ‘Edge of Liner’ signage

Photo 4: Leachate storage tanks

Photo 5: Stormwater pond from Northeast