Run-on and Run-off Control System Plan

SWEPCO – John W. Turk, Jr. Power Plant

Fulton, Arkansas

Permit No. 0311-S3N-R1

AFIN: 29-00506

September 2026| Report Number: 35257154

Prepared for:

AMERICAN ELECTRIC POWER℠

BOUNDLESS ENERGY℠

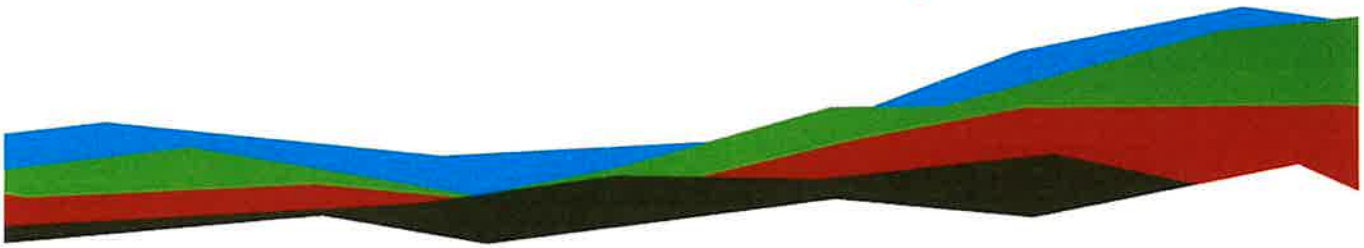
SWEPCO

3711 Highway 355 South

Fulton, Arkansas 71838

9.1.26

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9199
DAVID C. McCORMICK



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RUN-ON AND RUN-OFF CONTROL SYSTEM PLAN
SWEPCO – John W. Turk, Jr. Power Plant

September 2026

1.0 Introduction

Title 40 of the Code of Federal Regulations, Section 257.81 (40 CFR §257.81), requires the owner or operator of an existing or new CCR landfill, or any lateral expansion of a CCR landfill, to comply with the following requirements:

a. Design, construct, operate, and maintain:

b. A run-on control system to prevent flow onto the active portion of the CCR unit during the peak discharge from a 24-hour, 25-year storm.

c. A run-off control system from the active portion of the CCR unit to collect and control at least the water volume resulting from a 24-hour, 25-year storm.

2. Run-off from the active portion of the CCR unit must be handled in accordance with the surface water requirements under §257.3-3

3. Prepare initial and periodic run-on and run-off control system plans for the CCR unit according to the following timeframes:

   a. For existing CCR landfills, the owner or operator of the CCR unit must prepare the initial run-on and run-off control system plan no later than October 17, 2016.

   b. The owner or operator of the CCR unit must prepare periodic run-on and run-off control system plans every five (5) years.

4. Obtain a certification from a qualified professional engineer stating that the initial and periodic run-on and run-off control system plans meet the requirements of this section.

5. Comply with the recordkeeping requirements specified in §257.105(g), the notification requirements specified in §257.106(g), and the internet requirements specified in §257.107(g).

This Run-on and Run-off Control System Plan presents the regulatory-required materials as noted above. It is prepared for the existing Southwestern Electric Power Company John W. Turk, Jr. Power Plant Class 3N Landfill, Fulton, Arkansas. The design of run-on and run-off control measures were completed as part of a previous landfill permit modification:

- The ADEQ minor modification submitted in December 2015 and approved in April 2016 modified the final cover and perimeter drainage systems.

The landfill operations have been installed and are currently maintaining many of the planned stormwater control measures discussed in this plan. Attached FIGURE 1 – *Ponds and Landfill Area Overall Plan* in APPENDIX 1 illustrates the general layout of the Class 3N Landfill and the Stormwater Run-Off Pond.

As part of the 2026 five-year review, Terracon reviewed the current facility configuration, existing and planned filling conditions, stormwater-management drawings, and supporting hydraulic information provided in Appendix 1. The review included the run-on controls surrounding the landfill footprint, stormwater conveyance features associated with closed and inactive areas, contact-water controls within active disposal areas, and the capacity information presented for the applicable drainage features. Based on this review, no changes were identified that would alter the basis of the run-on and run-off control systems described in this Plan. The systems continue to satisfy the applicable design criteria of 40 CFR §257.81.

2.0 Run-on Controls

The run-on control system to prevent flow onto the active portion of the landfill during the peak discharge from a 24-hour, 25-year storm must consider site conditions around the landfill outside of the landfill footprint as well as site conditions within the landfill footprint.

2.1 Run-On Control Outside the Landfill Footprint

Perimeter drainage channels around the landfill provide controls to handle run-on from outside the landfill footprint. Because the area around the landfill is flat and below the landfill's perimeter berm, there is limited potential stormwater drainage directed toward the landfill. The series of perimeter drainage channels were designed to handle the run-off from closed landfill areas as their primary purpose. These perimeter channels are constructed along with perimeter containment berms that define the limits of the landfill ash disposal area/footprint. The perimeter channels (see FIGURE 2), direct flow to the east of the landfill to the stormwater pond that discharges to the north into an unnamed tributary of Bridge Creek. The stormwater then flows to Bridge Creek and into the Red River.

Surface water drainage calculations were performed to size the side-slope benches and down-slope channels incorporated in the final grade and the perimeter channel around the landfill footprint. Stormwater drainage calculations used a 25-year, 24-hour storm event to generate stormwater run-off from a vegetated final grade surface. The calculated flow capacities of the different stormwater systems are summarized on FIGURE 3. The details of the different stormwater systems can be found on FIGURE 4.

A perimeter drainage channel system handles stormwater run-off flow from the down-slope channels and the final cover cap. The perimeter channels have a trapezoidal shape that was modeled to handle the 25-year, 24-hour storm event. The channels are sloped to drain into the stormwater pond on the east side of the landfill.

2.2 Run-On Control Inside the Landfill Footprint

Within the landfill footprint, limited run-on controls are planned through a site-filling phasing plan that consists of five development and filling phases. This phasing plan results in constructing specific areas to accept ash waste while other areas are either un-constructed, being prepared for waste acceptance, have ash waste disposal and are in temporary closed condition, or are filled and in final closed condition. All phases incorporate perimeter containment berms that are either permanent berms or temporary internal berms to control run-on. Run-on controls are planned specific to each phase condition as detailed below and as presented on attached FIGURES 5 through 9 in APPENDIX 1 - *Phases 1, 2, 3, 4 & 5 Active Ash Filling Sequence*.

2.2.1 Cell 1 Inactive

Cell 1 is currently inactive. Although final grades have not been reached in Ce ll 1, filling has been discontinued due to a small working area on the top of Cell 1. Filling has been moved to Cell 2. Run-on controls within the landfill are provided by the cell's perimeter berms. The exterior stormwater is directed into the perimeter graded drainage channels on the north and south side of Cell 1 and is then directed to the east of Cell 1 into the stormwater pond (see FIGURE 5).

2.2.2 Phase 2 Active Filling

Cell 2 was constructed to the west of Cell 1. Cell 2 was approved for waste acceptance in January 2019 and ties into Cell 1's west side divider berm. Cell 2 active filling began on the eastern portion of Cell 2 and is progressing to the west towards future Cell 3. Run-on controls within the landfill are provided by the cells' perimeter berms. The exterior stormwater is directed into the perimeter graded drainage channels on the north and south side of Cells 1 and 2 and directed to the east of Cell 1 into the stormwater pond. After construction of Cell 2, a partial final cover over Cell 1 was constructed. The final cover includes the previously mentioned stormwater system that conveys the stormwater from the cover to the east and into the stormwater pond (see FIGURE 6). A ClosureTurf final cover test pad area was constructed on the south side of Cell 1 and an intermediate clay cover was constructed on the north and east side of Cell 1.

2.2.3 Phase 3 Active Filling

Construction of Cell 3 began in August 2026. Cell 3 is located west of Cell 2 and will tie into the West-side divider berm. The Cell 3 configuration is incorporated into the phased run-on and run-off control approach evaluated by this Plan and depicted on Figure 7. Cell 3 active filling will begin in the eastern portion of Cell 3 and will progress to the west towards future Cell 4. Run-on controls within the landfill will be provided by the cell's perimeter berms. The exterior stormwater is directed into the perimeter graded drainage channels on the north and south side of Cells 1, 2, and 3 and will then be directed to the east of Cell 1 into the stormwater pond. After construction of Cell 3, final cover Cell 1 and a portion of Cell 2 will be constructed. This cover will consist of the previously mentioned stormwater system that will convey the stormwater from the cover to the east and into the stormwater pond (see FIGURE 7).

2.2.4 Phase 4 Active Filling

Future Cell 4 will be constructed to the west of Cell 3. Cell 4 will tie into Cell 3's west side divider berm. Cell 4 active filling will begin in the eastern portion of Cell 4 and will progress to the west

towards future Cell 5. Run-on controls within the landfill will be provided by the cell's perimeter berms. The exterior stormwater is directed into the perimeter graded drainage channels on the north and south side of Cells 1, 2, 3, and 4 and will then be directed to the east of Cell 1 into the stormwater pond. After construction of Cell 4, final cover over Cell 2 and a portion of Cell 3 will be constructed. This cover will consist of the previously mentioned stormwater system that will convey the stormwater from the cover to the east and into the stormwater pond (see FIGURE 8).

2.2.5 Phase 5 Active Filling

Future Cell 5 will be constructed to the west of Cell 4. Cell 5 will tie into Cell 4's west side divider berm. Cell 5 active filling will begin in the eastern portion of Cell 5 and will progress to the west side of Cell 5. Run-on controls within the landfill will be provided by the cell's perimeter berms. The exterior stormwater is directed into the perimeter graded drainage channels on the north and south side of Cells 1, 2, 3, 4, and 5 and will then be directed to the east of Cell 1 into the stormwater pond. The stormwater on the west side of Cell 5 will drain to the south and then to the east towards the stormwater pond on the east side of Cell 1. After construction of Cell 5, final cover over Cell 3 and a portion of Cell 4 will be constructed. This cover will consist of the previously mentioned stormwater system that will convey the stormwater from the cover to the east and into the stormwater pond (see FIGURE 9).

3.0 Run-off Controls

For purposes of this Plan, non-contact stormwater is water managed outside active CCR disposal areas and conveyed through the perimeter stormwater system. Water contacting CCR within an active disposal area is managed as contact water through the landfill leachate collection and treatment system.

The run-off control system to prevent flow (contact water) from leaving the active portion of the landfill during the peak discharge from a 24-hour, 25-year storm considers site conditions within active filling areas. Run-off control consists of the following aspects:

- Perimeter containment berms
- Leachate collection system
- Conveyance piping
- Leachate treatment pond
- Ash filling operations

Perimeter containment berms that are either permanent or temporary are provided around the active filling area to control run-on as discussed above but also serve to control run-off. The landfill includes a collection system for contact water (referred to as leachate collection system) that encompasses a drainage layer and perforated collection pipe which are part of the landfill base liner system. Collected contact water is managed by a collection system, the leachate collection pipes, conveyance pipes, leachate treatment ponds, and final regulated discharge outlet. Ash filling operation is managed such that contact water is directed to the collection system features. The run-off control features are presented on the attached, FIGURE 4. The following further describes the run-off control components.

3.1 Perimeter Containment Berms

The perimeter containment berms are constructed around the active-phase filling areas and are either permanent or temporary features. These berms serve to contain the limits of active ash filling and provide a barrier and collection point for run-off control. The leachate collection system and ash filling operation use the berms as part of their control systems as described below.

3.2 Leachate Collection System

The leachate collection system consists of 2-ft. thick drainage layer over the landfill floor and 1-ft. thick layer over the slopes. The leachate collection system is connected to 12-inch-diameter perforated collection pipes. The composite liner system and leachate collection pipe network slope to low points located at the containment berms where the collected run-off flows into conveyance pipes for the leachate treatment system. The leachate collection pipe network spacing is a function of the base grade liner slope, drainage layer permeability, and flow distance to collection pipes. The Hydraulic Evaluation of Landfill Performance (HELP) model was used in evaluating the pipe spacing with respect to contact water percolation to the leachate collection drainage layer, the minimum liner slope and a selected pipe spacing or flow distance to a collection pipe.

Design of the chimney drains considered a 25-year, 24-hour storm event and a drainage area of approximately 4 acres. This resulted in a controlled discharge of stormwater into the chimney drains and down to the leachate collection pipes. Where possible, the chimney drains are positioned above the perforated leachate collection pipe.

3.3 Conveyance Piping to Treatment Ponds

The leachate collection systems drain toward the western and northern perimeter of the landfill area where the pipes penetrate the landfill liner and continue to drain toward leachate treatment ponds. The pipes outside the limits of the landfill liner are contained within an outer containment pipe. The leachate pipes exiting the landfill are 12-inch-diameter HDPE SDR 17 pipe with an outer containment pipe being 18-inch-diameter HDPE SDR 17 pipe. The conveyance pipe slopes at minimum 0.25% slope or greater toward the leachate treatment ponds. Manholes are provided at pipe connections and bends.

3.4 Leachate Treatment Pond

The leachate treatment pond is on the north side of the landfill. The pond was conservatively sized to handle the run-off from the landfill base on a 100-year, 24-hour storm for when two cells are open. Hydrologic run-off analysis using HydroCAD V8.50 software program estimated a run-off rate and volume for this condition. The pond is approximately 17 feet deep to provide storage of the total storm event run-off with more than 2 feet of freeboard. Accordingly, the evaluated pond-storage condition exceeds the 25-year, 24-hour run-off volume criterion applicable under 40 CFR §257.81. The leachate is then pumped to the Process Water Pond for treatment and use by the facility.

3.5 Ash Filling Operation

The ash filling operation must be performed in a manner to provide run-off control within the disposal cell such that the contact surface water reaches the leachate collection system. This involves grading the placed ash in a controlled manner to direct contact surface water flow toward the leachate collection structures in the interior portions of the disposal area. Ash grading must be directed away from the outboard slopes unless a drainage channel at the toe of the ash slopes is utilized such that leachate is directed away from the perimeter berms and into the leachate collection structures. On the outboard slopes the contact surface water must be provided a collection point at the bottom of the slope where the drainage layer is placed up the inboard side of the containment berm; in these situations the ash placement must be kept back away from the drainage layer such that the leachate will drain toward the collection structures. In situations where the outboard slope is ready for closure, a drainage channel must be provided at the top level of the placed closure cap to collect contact surface water and direct that flow to a location where it can enter the leachate collection system.

4.0 Plan Review and Changes in Facility Configuration

The Owner or Operator may amend this Run-on and Run-off Control System Plan at any time, provided the revised Plan is placed in the facility's operating record in accordance with 40 CFR §257.105(g)(3). The Owner or Operator must amend the written Plan whenever a change in conditions would substantially affect the Plan in effect.

The Owner or Operator will prepare a periodic Run-on and Run-off Control System Plan at least once every five years in accordance with 40 CFR §257.81(c)(4). The deadline for completing each subsequent periodic Plan will be based on the date the previous Plan was completed. For purposes of this requirement, a periodic Plan is completed when it is placed in the facility's operating record.

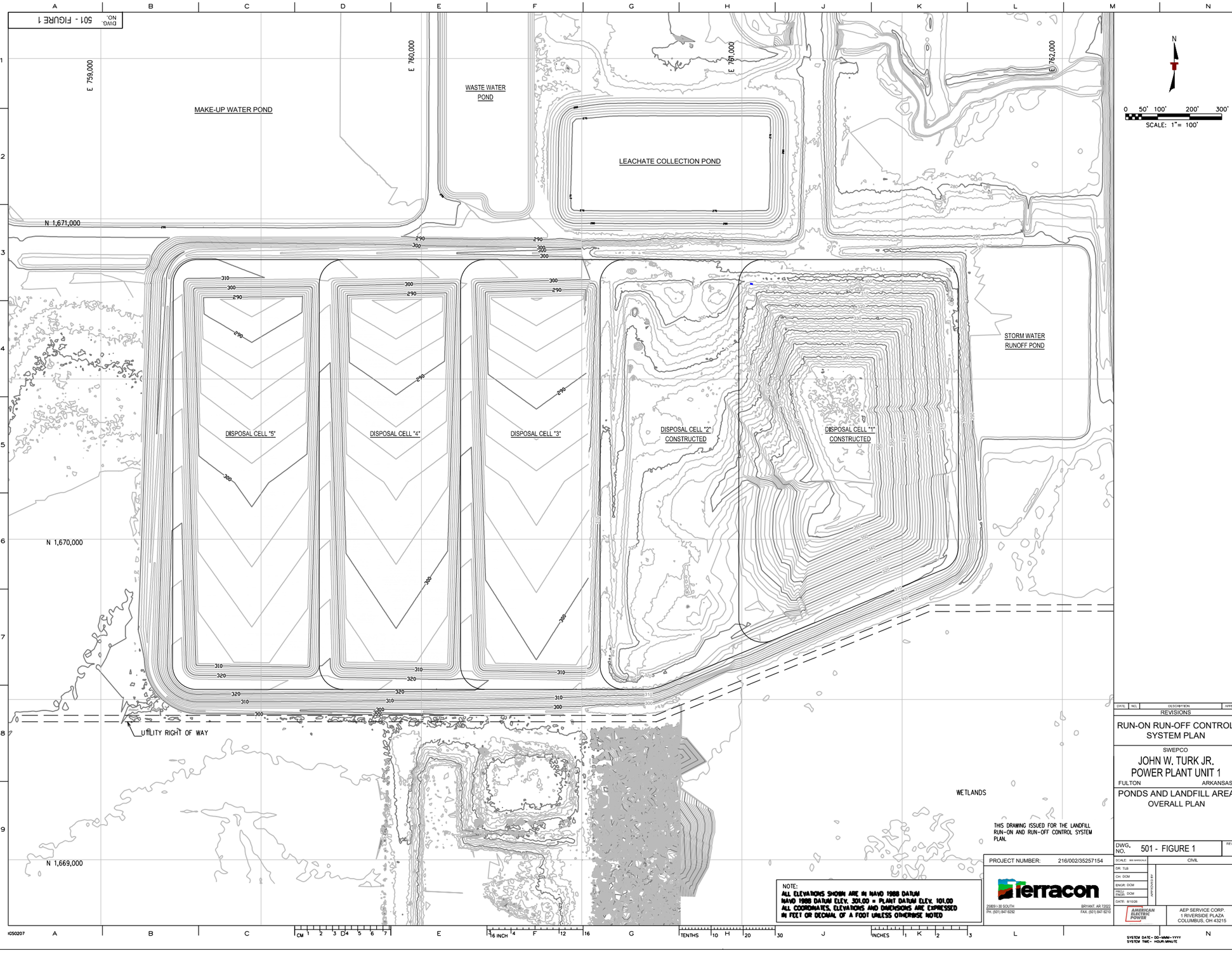
The Owner or Operator is responsible for initiating and coordinating periodic reviews and revisions to this Plan. Periodic reviews and Plan amendments will be documented in the Plan Review Log provided in Appendix 2. The Plan Review Log will be completed even when a periodic review does not result in an amendment. The Owner or Operator will comply with the applicable recordkeeping, notification, and internet-posting requirements of 40 CFR §§257.105(g), 257.106(g), and 257.107(g).

5.0 Professional Engineer Certification

The original plan and all reviews and amended plans must obtain certification from a qualified professional engineer stating that the initial and periodic run-on and run-off control system plans meet the requirements of 40 CFR Part 257, including 40 CFR §257.81. This certification in no way relieves the owner or operator of the facility of his/her duty to fully implement this Plan. The Professional Engineer Certification page is provided in Appendix 3.

APPENDIX 1: FIGURES

DWG. NO. 501 - FIGURE 1



NOTE:
ALL ELEVATIONS SHOWN ARE IN NAVD 1988 DATUM
NAVD 1988 DATUM ELEV. 301.00 = PLANT DATUM ELEV. 101.00
ALL COORDINATES, ELEVATIONS AND DIMENSIONS ARE EXPRESSED IN FEET OR DECIMAL OF A FOOT UNLESS OTHERWISE NOTED

THIS DRAWING ISSUED FOR THE LANDFILL RUN-ON AND RUN-OFF CONTROL SYSTEM PLAN.

DATE	NO.	DESCRIPTION	APPD.

REVISIONS

RUN-ON RUN-OFF CONTROL SYSTEM PLAN

SWEPCO
JOHN W. TURK JR. POWER PLANT UNIT 1
FULTON ARKANSAS

PONDS AND LANDFILL AREA
OVERALL PLAN

DWG. NO. 501 - FIGURE 1 REV:

PROJECT NUMBER: 216/002/35257154

SCALE: SEE BARSCALE | CIVIL
DR: TLB
CH: DCM
ENGR: DCM
PROJ. ENGR.: DCM
DATE: 8/10/06
APPROVED BY

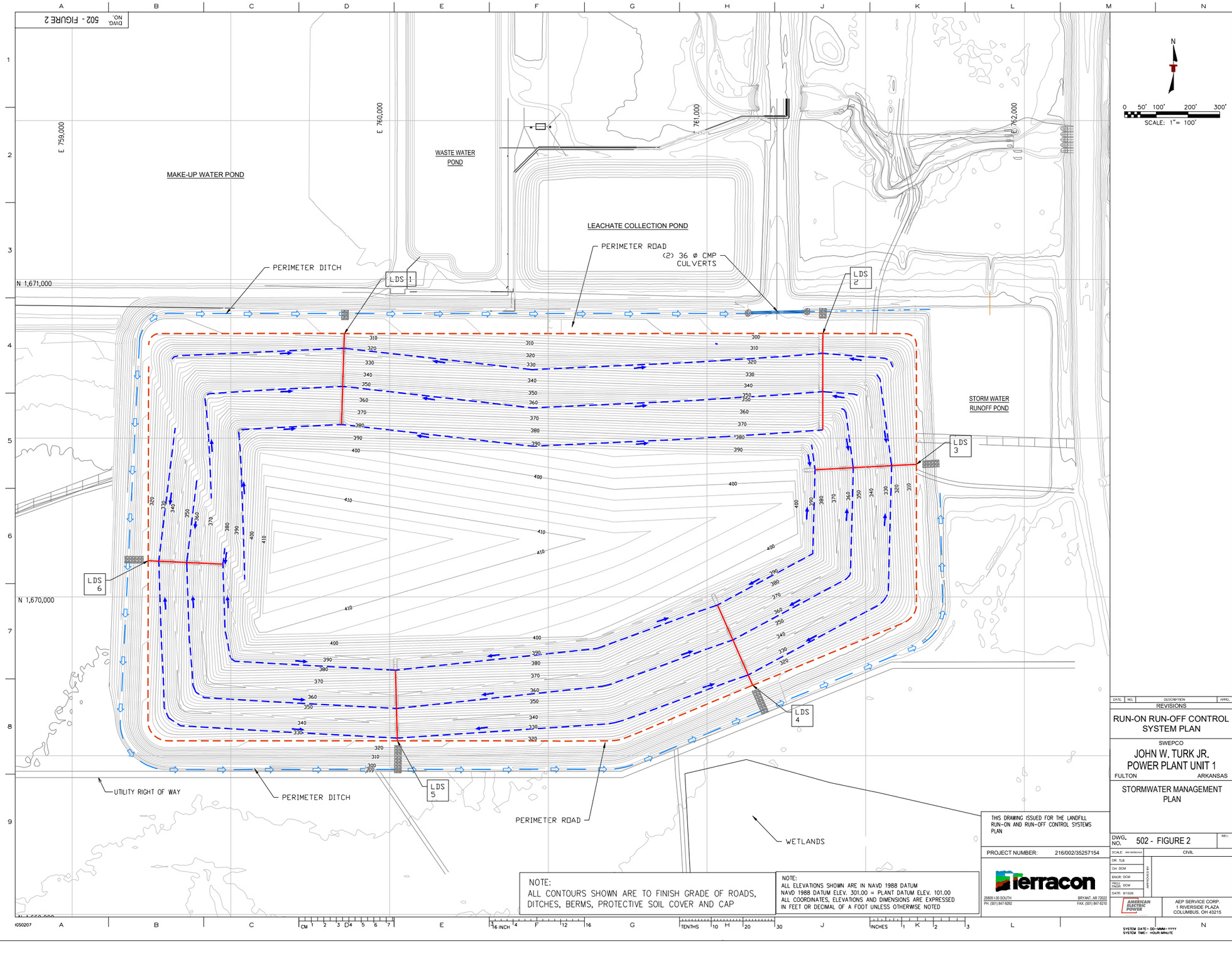
Terracon
25809 I-30 SOUTH BRYANT, AR 72022
PH. (501) 847-5292 FAX. (501) 847-5210

AMERICAN ELECTRIC POWER
AEP SERVICE CORP.
1 RIVERSIDE PLAZA
COLUMBUS, OH 43215

SYSTEM DATE= DD-MMM-YYYY
SYSTEM TIME= HOUR:MINUTE

1050207

DWG. NO.: 502 - FIGURE 2



NOTE:
ALL CONTOURS SHOWN ARE TO FINISH GRADE OF ROADS, DITCHES, BERMS, PROTECTIVE SOIL COVER AND CAP

NOTE:
ALL ELEVATIONS SHOWN ARE IN NAVD 1988 DATUM
NAVD 1988 DATUM ELEV. 301.00 = PLANT DATUM ELEV. 101.00
ALL COORDINATES, ELEVATIONS AND DIMENSIONS ARE EXPRESSED IN FEET OR DECIMAL OF A FOOT UNLESS OTHERWISE NOTED

THIS DRAWING ISSUED FOR THE LANDFILL RUN-ON AND RUN-OFF CONTROL SYSTEMS PLAN

PROJECT NUMBER: 216/002/35257154

Terracon
25809 I-30 SOUTH BRYANT, AR 72022
PH. (501) 847-9292 FAX. (501) 847-9210

DATE	NO.	DESCRIPTION	APPD.
		REVISIONS	

RUN-ON RUN-OFF CONTROL SYSTEM PLAN

SWEPCO
JOHN W. TURK JR. POWER PLANT UNIT 1
FULTON ARKANSAS

STORMWATER MANAGEMENT PLAN

DWG. NO. 502 - FIGURE 2 REV.:

SCALE: SEE BARSCALE | CIVIL
DR: TLB
CH: DCM
ENGR: DCM
PROJ MGR: DCM
DATE: 8/10/09
APPROVED BY

AMERICAN ELECTRIC POWER
AEP SERVICE CORP.
1 RIVERSIDE PLAZA
COLUMBUS, OH 43215

SYSTEM DATE= DD-MMM-YYYY
SYSTEM TIME= HOUR:MINUTE

IGS0207

DWG NO.: 502 - FIGURE 3

SUBBASIN DATA SUPPORT TABLE

Element ID	Area	Average Slope	Design Storm Event	Total Runoff	Peak Runoff
	(acres)	(%)		(inches)	(cfs)
LD1-SUB01	1.32	6.0	24HR/25YR	3.14	12.85
LD1-SUB02	3.79	6.0	24HR/25YR	3.09	31.68
LD1-SUB03	0.82	25.0	24HR/25YR	3.14	8.30
LD1-SUB04	0.53	25.0	24HR/25YR	3.14	5.32
LD1-SUB05	0.68	25.0	24HR/25YR	3.14	6.86
LD1-SUB06	0.63	25.0	24HR/25YR	3.14	6.33
LD1-SUB07	1.04	25.0	24HR/25YR	3.14	10.48
LD1-SUB08	1.66	25.0	24HR/25YR	3.14	16.53
LD1-SUB09	1.37	25.0	24HR/25YR	3.14	13.74
LD1-SUB10	1.65	25.0	24HR/25YR	3.14	16.43
LD2-SUB01	3.72	5.8	24HR/25YR	3.09	31.13
LD2-SUB02	0.83	5.8	24HR/25YR	3.14	8.22
LD2-SUB03	0.45	25.0	24HR/25YR	3.14	4.50
LD2-SUB04	0.30	25.0	24HR/25YR	3.13	3.04
LD2-SUB05	1.68	25.0	24HR/25YR	3.14	16.75
LD2-SUB06	0.90	25.0	24HR/25YR	3.14	9.12
LD2-SUB07	1.69	25.0	24HR/25YR	3.14	16.80
LD2-SUB08	1.19	25.0	24HR/25YR	3.14	11.93
LD3-SUB01	0.34	25.0	24HR/25YR	3.13	3.40
LD3-SUB02	0.07	25.0	24HR/25YR	3.13	0.67
LD3-SUB03	0.85	25.0	24HR/25YR	3.14	8.56
LD3-SUB04	0.37	25.0	24HR/25YR	3.14	3.74
LD3-SUB05	1.08	25.0	24HR/25YR	3.14	10.87
LD3-SUB06	0.67	25.0	24HR/25YR	3.14	6.78
LD4-SUB01	2.22	3.7	24HR/25YR	3.11	19.71
LD4-SUB02	1.37	3.7	24HR/25YR	3.13	13.01
LD4-SUB03	0.48	25.0	24HR/25YR	3.14	4.86
LD4-SUB04	0.40	25.0	24HR/25YR	3.14	4.06
LD4-SUB05	1.14	25.0	24HR/25YR	3.14	11.47
LD4-SUB06	1.04	25.0	24HR/25YR	3.14	10.48
LD4-SUB07	1.20	25.0	24HR/25YR	3.14	12.10
LD4-SUB08	1.25	25.0	24HR/25YR	3.14	12.54
LD5-SUB01	2.42	3.4	24HR/25YR	3.10	21.00
LD5-SUB02	4.33	3.4	24HR/25YR	3.06	32.10
LD5-SUB03	1.13	25.0	24HR/25YR	3.17	11.36
LD5-SUB04	1.09	25.0	24HR/25YR	3.14	11.02
LD5-SUB05	1.61	25.0	24HR/25YR	3.14	16.10
LD5-SUB06	1.80	25.0	24HR/25YR	3.14	17.90
LD5-SUB07	1.48	25.0	24HR/25YR	3.14	14.76
LD5-SUB08	1.65	25.0	24HR/25YR	3.14	16.47
LD6-SUB01	0.02	25.0	24HR/25YR	3.13	0.16
LD6-SUB02	0.44	25.0	24HR/25YR	3.14	4.42
LD6-SUB03	0.41	25.0	24HR/25YR	3.14	4.11
LD6-SUB04	0.96	25.0	24HR/25YR	3.14	9.65
LD6-SUB05	0.69	25.0	24HR/25YR	3.14	6.97
LD6-SUB06	0.94	25.0	24HR/25YR	3.14	9.49
Sub-47	0.78	25.0	24HR/25YR	3.14	7.90
Sub-48	2.46	25.0	24HR/25YR	3.14	24.06
Sub-49	1.34	25.0	24HR/25YR	3.14	13.42
Sub-50	0.63	1.0	24HR/25YR	4.47	6.21
Sub-51	1.06	1.0	24HR/25YR	4.46	9.81
Sub-52	0.64	1.0	24HR/25YR	4.47	6.34
Sub-53	1.50	25.0	24HR/25YR	3.14	15.03
Sub-54	0.76	25.0	24HR/25YR	3.14	7.70
Sub-55	0.05	1.0	24HR/25YR	4.46	0.51
Sub-56	0.24	1.0	24HR/25YR	4.47	2.51
Sub-57	0.52	25.0	24HR/25YR	3.14	5.26
Sub-58	0.23	1.0	24HR/25YR	4.47	2.41
Sub-59	0.53	25.0	24HR/25YR	3.14	5.35
Sub-60	0.32	1.0	24HR/25YR	4.47	3.34
Sub-61	0.99	25.0	24HR/25YR	3.14	10.00
Sub-62	0.42	1.0	24HR/25YR	4.47	4.27
Sub-63	0.67	25.0	24HR/25YR	3.14	6.81
Sub-64	0.25	1.0	24HR/25YR	4.47	2.58
Sub-65	0.90	25.0	24HR/25YR	3.14	9.04
Sub-66	0.19	1.0	24HR/25YR	4.47	2.00
Sub-67	0.82	25.0	24HR/25YR	3.14	8.28
Sub-68	0.20	1.0	24HR/25YR	4.47	2.05
TOTALS	71.20	-	-	-	682.65

CHANNEL DATA SUPPORT TABLE

Element ID	Length	Inlet Invert Elevation	Outlet Invert Elevation	Total Drop	Average Slope	Channel Type	Channel Height	Channel Width	Peak Flow	Max Flow Velocity	Design Flow Capacity
	(ft)	(ft)	(ft)	(ft)	(%)		(ft)	(ft)	(cfs)	(ft/sec)	(cfs)
DB1-1a	353.58	395.86	388.78	7.08	2.0000	Trapezoidal	2.000	12.10	8.19	3.61	75.22
DB1-1b	112.43	388.78	386.54	2.24	1.9900	Trapezoidal	2.000	12.10	8.17	3.55	75.03
DB1-1c	2.48	386.54	386.49	0.05	2.0200	Trapezoidal	2.000	12.10	8.17	3.55	75.48
DB1-1d	2.49	386.49	386.44	0.05	2.0100	Trapezoidal	2.000	12.10	8.17	3.54	75.32
DB1-1e	2.04	386.44	386.40	0.04	1.9600	Trapezoidal	2.000	12.10	8.16	3.51	74.43
DB1-1f	2.93	386.40	386.34	0.06	2.0500	Trapezoidal	2.000	12.10	8.16	3.57	76.07
DB1-1g	150.83	386.34	383.35	2.99	1.9800	Trapezoidal	2.000	12.10	8.12	3.54	74.84
DB1-1h	166.97	383.35	379.98	3.37	2.0200	Trapezoidal	2.000	12.10	25.37	4.72	75.52
DB1-2b	269.71	385.01	379.98	5.03	1.8600	Trapezoidal	2.000	12.10	38.14	5.09	72.59
DB1-3a	225.71	365.16	360.62	4.54	2.0100	Trapezoidal	2.000	12.10	6.31	3.37	75.36
DB1-3b	87.64	360.62	358.88	1.74	1.9900	Trapezoidal	2.000	12.10	6.28	3.32	74.96
DB1-3c	6.88	358.88	358.75	0.13	1.8900	Trapezoidal	2.000	12.10	6.28	3.24	73.07
DB1-3d	6.72	358.75	358.62	0.13	1.9300	Trapezoidal	2.000	12.10	6.28	3.27	73.93
DB1-3e	5.23	358.62	358.51	0.11	2.1000	Trapezoidal	2.000	12.10	6.28	3.38	77.09
DB1-3f	7.88	358.51	358.36	0.15	1.9000	Trapezoidal	2.000	12.10	6.28	3.25	73.34
DB1-3g	246.59	358.36	353.45	4.91	1.9900	Trapezoidal	2.000	12.10	6.21	3.34	75.01
DB1-3h	171.15	353.45	350.00	3.45	2.0200	Trapezoidal	2.000	12.10	16.00	4.21	75.47
DB1-4b	258.34	355.01	350.00	5.01	1.9400	Trapezoidal	2.000	12.10	16.44	4.21	74.02
DB1-5a	10.45	329.47	329.16	0.31	2.9700	Trapezoidal	2.000	12.10	13.72	4.67	91.55
DB1-5b	12.63	329.16	328.94	0.22	1.7400	Trapezoidal	2.000	12.10	13.71	3.83	70.16
DB1-5c	309.29	328.94	324.13	4.81	1.5600	Trapezoidal	2.000	12.10	13.56	3.72	66.29
DB1-5d	213.77	324.13	320.00	4.13	1.9300	Trapezoidal	2.000	12.10	13.50	3.99	73.88
DB1-6b	251.53	324.94	320.00	4.94	1.9600	Trapezoidal	2.000	12.10	16.34	4.22	74.49
DB2-1b	300.80	385.54	379.93	5.61	1.8700	Trapezoidal	2.000	12.10	35.14	4.99	72.59
DB2-3b	299.21	355.43	349.83	5.60	1.8700	Trapezoidal	2.000	12.10	16.62	4.18	72.72
DB2-4b	165.73	357.16	353.75	3.41	2.0600	Trapezoidal	2.000	12.10	9.07	3.71	76.25
DB2-4c	201.37	353.75	349.83	3.92	1.9500	Trapezoidal	2.000	12.10	9.04	3.63	74.16
DB2-5b	306.26	325.43	319.72	5.71	1.8600	Trapezoidal	2.000	12.10	16.67	4.17	72.58
DB2-6b	224.40	328.95	324.46	4.49	2.0000	Trapezoidal	2.000	12.10	11.88	3.93	75.19
DB2-6c	237.50	324.46	319.72	4.74	2.0000	Trapezoidal	2.000	12.10	11.79	3.91	75.09
DB3-1b	36.17	384.54	383.82	0.72	1.9900	Trapezoidal	2.000	12.10	0.67	1.90	75.00
DB3-2b	130.37	386.43	383.82	2.61	2.0000	Trapezoidal	2.000	12.10	3.39	2.87	75.21
DB3-3b	89.41	357.14	355.36	1.78	1.9900	Trapezoidal	2.000	12.10	3.74	2.93	75.00
DB3-3c	85.96	355.36	353.63	1.73	2.0100	Trapezoidal	2.000	12.10	3.73	2.93	75.41
DB3-4c	135.93	356.35	353.63	2.72	2.0000	Trapezoidal	2.000	12.10	8.53	3.61	75.19
DB3-5b	180.59	328.88	325.28	3.60	1.9900	Trapezoidal	2.000	12.10	6.76	3.41	75.05
DB3-5c	93.25	325.28	323.41	1.87	2.0100	Trapezoidal	2.000	12.10	6.75	3.39	75.27
DB3-6b	13.83	331.54	331.26	0.28	2.0200	Trapezoidal	2.000	12.10	10.86	3.82	75.63
DB3-6c	239.01	331.26	326.47	4.79	2.0000	Trapezoidal	2.000	12.10	10.81	3.85	75.25
DB3-6d	153.64	326.47	323.41	3.06	1.9900	Trapezoidal	2.000	12.10	10.77	3.81	75.02
DB4-1b	168.82	385.74	382.36	3.38	2.0000	Trapezoidal	2.000	12.10	16.96	4.28	75.21
DB4-2a	168.32	390.35	386.98	3.37	2.0000	Trapezoidal	2.000	12.10	19.58	4.42	75.21
DB4-2b	230.66	386.98	382.36	4.62	2.0000	Trapezoidal	2.000	12.10	24.17	4.67	75.23
DB4-3b	236.89	380.37	355.63	24.74	10.4400	Trapezoidal	2.000	12.10	10.45	7.05	171.78
DB4-3c	166.08	355.63	352.30	3.33	2.0100	Trapezoidal	2.000	12.10	10.41	3.80	75.27
DB4-4b	170.50	360.55	357.14	3.41	2.0000	Trapezoidal	2.000	12.10	11.42	3.89	75.17
DB4-4c	241.95	357.14	352.30	4.84	2.0000	Trapezoidal	2.000	12.10	11.37	3.89	75.18
DB4-5b	307.73	331.61	325.46	6.15	2.0000	Trapezoidal	2.000	12.10	12.44	3.99	75.15
DB4-5c	163.06	325.46	322.20	3.26	2.0000	Trapezoidal	2.000	12.10	12.38	3.95	75.16
DB4-6b	189.46	330.71	326.92	3.79	2.0000	Trapezoidal	2.000	12.10	12.05	3.94	75.18
DB4-6c	235.87	326.92	322.20	4.72	2.0000	Trapezoidal	2.000	12.10	11.98	3.94	75.19
DB5-1a	363.76	390.36	383.08	7.28	2.0000	Trapezoidal	2.000	12.10	31.77	5.04	75.20
DB5-1b	273.25	383.08	377.81	5.27	1.9300	Trapezoidal	2.000	12.10	41.84	5.27	73.82
DB5-2b	156.44	387.74	384.60	3.14	2.0100	Trapezoidal	2.000	12.10	20.88	4.50	75.31
DB5-2c	349.98	384.60	377.81	6.79	1.9400	Trapezoidal	2.000	12.10	31.69	4.95	74.04
DB5-3b	361.52	360.57	353.34	7.23	2.0000	Trapezoidal	2.000	12.10	17.69	4.36	75.17
DB5-3c	291.80	353.34	347.50	5.84	2.0000	Trapezoidal	2.000	12.10	17.52	4.33	75.20
DB5-4b	252.83	359.64	354.57	5.07	2.0100	Trapezoidal	2.000	12.10	16.01	4.24	75.27
DB5-4c	353.44	354.57	347.50	7.07	2.0000	Trapezoidal	2.000	12.10	15.78	4.23	75.18
DB5-6b	337.17	337.84	331.20	6.74	2.0000	Trapezoidal	2.000	12.10	14.62	4.15	75.15
DB5-6c	347.05	331.20	324.26	6.94	2.0000	Trapezoidal	2.000	12.10	14.41	4.14	75.17
DB6-1b	80.87	387.81	386.19	1.62	2.0000	Trapezoidal	2.000	12.10	4.42	3.05	75.23
DB6-1c	208.01	386.19	382.01	4.18	2.0100	Trapezoidal	2.000	12.10	4.38	3.08	75.35
DB6-2a	27.53	383.02	382.47	0.55	2.0000	Trapezoidal	2.000	12.10	0.16	1.33	75.13
DB6-2b	23.21	382.47	382.01	0.46	1.9800	Trapezoidal	2.000	12.10	0.16	1.33	74.83
DB6-3b	143.55	359.80	356.89	2.91	2.0300	Trapezoidal	2.000	12.10	9.62	3.74	75.68
DB6-3c	243.23	356.89	352.06	4.83	1.9900	Trapezoidal	2.000	12.10	9.57	3.72	74.91
DB6-4a	189.61	357.27	353.49	3.78	1.9900	Trapezoidal	2.000	12.10	4.10	3.01	75.05
DB6-4b	71.27	353.49	352.06	1.43	2.0100	Trapezoidal	2.000	12.10	4.08	2.99	75.29
DB6-5b	178.88	338.17	334.59	3.58	2.0000	Trapezoidal	2.000	12.10	9.45	3.71	75.20
DB6-5c	283.57	334.59	328.92	5.67	2.0000	Trapezoidal	2.000	12.10	9.37	3.71	75.16
DB6-6a	331.79	337.38	330.75	6.63	2.0000	Trapezoidal	2.000	12.10	6.89	3.46	75.14
DB6-6b	91.59	330.75	328.92	1.83	2.0000	Trapezoidal	2.000	12.10	6.88	3.40	75.14
LD1-01	120.18	379.98	350.00	29.98	24.9500	Trapezoidal	2.000	16.00	63.44	13.60	465.95
LD1-02	120.12	350.00	320.00	30.00	24.9800	Trapezoidal	2.000	16.00	95.77	15.27	466.22
LD1-03	46.50	320.00	308.42	11.58	24.9000	Trapezoidal	2.000	16.00	125.31	16.43	465.55
LD2-01	120.42	379.93	349.83	30.10	25.0000	Trapezoidal	2.000	16.00	45.96	12.39	466.42
LD2-02	120.46	349.83	319.72	30.11	25.0000	Trapezoidal	2.000	16.00	71.49	14.08	466.42
LD2-03	83.92	313.60	298.00	15.60	18.5900	Trapezoidal	2.000	16.00	99.86	13.88	402.22
LD3-01	120.87	383.82	353.63	30.19	24.9800	Trapezoidal	2.000	16.00	4.05	5.65	466.24
LD3-02	120.88	353.63	323.41	30.22	25.0000	Trapezoidal	2.000	16.00	16.31	9.03	466.45
LD3-03	78.47	323.41	303.85	19.56	24.9300	Trapezoidal	2.000	16.00	33.72	11.28	465.77
LD4-01	120.09	382.36	352.30	30.06	25.0300	Trapezoidal	2.000	16.00	40.88	11.98	466.75
LD4-02	120.59	352.30	322.20	30.10	24.9600	Trapezoidal	2.000	16.00	62.62	13.54	466.09
LD4-03	35.65	322.20	313.32	8.88	24.9100	Trapezoidal	2.000	16.00	86.97	14.85	465.60
LD5-01	120.66	377.81	347.50	30.31	25.1200	Trapezoidal	2.000	16.00	73.38	14.20	467.57
LD5-02	93.00	347.50	324.26	23.24	24.9900	Trapezoidal	2.000	16.00	106.69	15.73	466.35
LD5-03	9.08	324.26	322.10	2.16	23.7900	Trapezoidal	2.000	16.00	136.84	16.55	455.01
LD6-01	114.03	382.01	352.06	29.95	26.2700	Trapezoidal	2.000	16.00	4.54	5.98	478.11
LD6-02	88.53	352.06	328.92	23.14	26.1400	Trapezoidal	2.000	16.00	18.18	9.48	476.95
LD6-03	33.56	328.92	320.16	8.76	26.1000	Trapezoidal	2.000	16.00	34.41	11.54	476.63
Link-151	57.15	290.49	290.10	0.39	0.6800	Trapezoidal	4.000	28.00	148.68	4.98	413.33
Link-153	372.01	330.94	327.21	3.73	1.0000	Trapezoidal	2.000	12.10	16.14	3.31	53.23
Link-154	294.65	327.21	324.26	2.95	1.0000	Trapezoidal	2.000	12.10	15.91	3.27	53.19
Link-178	339.89	290.10	288.00	2.10	0.6200	Trapezoidal	4.000	28.00	225.38	5.37	393.29
Link-184	142.58	308.30	305.20	3.10	2.1700	Trapezoidal	4.000	28.00	15.44	1.99	262.32
Link-185	556.36	305.20	302.00	3.20	0.5800	Trapezoidal	4.000	28.00	20.48	1.80	134.92
Link-186	1279.29	302.00	291.97	10.03	0.7800	Trapezoidal	4.000	28.00	131.25	3.09	157.52
Link-187	236.43	302.40	301.60	0.80	0.3400	Trapezoidal	4.000	28.00	48.35	2.47	232.84
Link-188	476.64	294.17	291.70	2.47	0.5200	Trapezoidal	4.000	28.00	181.84	4.07	288.15
Link-189	712.49	297.90	294.17	3.73	0.5200	Trapezoidal	4.000	28.00	172.51	4.16	289.62
Link-190	724.38	301.60	297.90	3.70	0.5100	Trapezoidal	4.000	28.00	46.25	3.04	286.08
Link-191	603.53	291.70	288.39	3.31	0.5500	Trapezoidal	6.000	40.00	247.01	4.51	779.85
Link-192	436.06	288.39	286.00	2.39	0.5500	Trapezoidal	8.000	52.00	251.46	4.49	1578.90

CULVERT DATA SUPPORT TABLE

Element ID	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Pipe Shape	Pipe Diameter or Height	Pipe Width	Peak Flow	Max Flow Velocity	Design Flow Capacity
	(ft)	(ft)	(ft)	(%)		(inches)	(inches)	(cfs)	(ft/sec)	(cfs)
CULVERT-001	169.29	291.97	290.49	0.8700	CIRCULAR	36.000	36.00	146.27	12.99	162.15

THIS DRAWING ISSUED FOR THE LANDFILL RUN-ON AND RUN-OFF CONTROL SYSTEMS PLAN

PROJECT NUMBER: 216/002/35257154

Terracon
25809 I-30 SOUTH BRYANT, AR 72022
PH: (501) 847-9292 FAX: (501) 847-9210

DATE	NO.	DESCRIPTION	APPD.

REVISIONS

RUN-ON RUN-OFF CONTROL SYSTEM PLAN

SWEPCO

JOHN W. TURK JR. POWER PLANT UNIT 1

FULTON ARKANSAS

STORMWATER DATA SUPPORT SHEET

DWG. NO. 502 - FIGURE 3 REV:

SCALE: N/A CIVIL

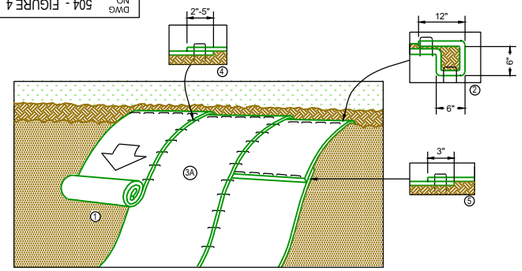
DR: TLB
CH: DCM
ENGR: DCM
PROJ MGR: DCM
DATE: 8/19/08
APPROVED BY

AEP SERVICE CORP.
1 RIVERSIDE PLAZA
COLUMBUS, OH 43215

SYSTEM DATE= DD-MMM-YYYY
SYSTEM TIME= HOUR:MINUTE

IGS0207

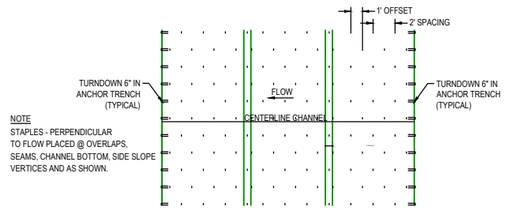
DWG NO. 504 - FIGURE 4



SLOPE INSTALLATION OF ROLLED EROSION CONTROL PRODUCT (R.E.C.P.)

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS DOWN THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/ STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 6" OVERLAP. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.

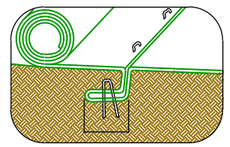
NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. IN LOOSE SOIL CONDITIONS THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.



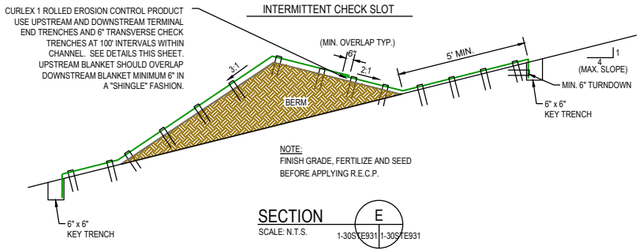
NOTE
STAPLES - PERPENDICULAR TO FLOW PLACED @ OVERLAPS, SEAMS, CHANNEL BOTTOM, SIDE SLOPE VERTICES AND AS SHOWN.

STAPLE PATTERN PLACEMENT - R.E.C.P.

SECTION D (1-30STE931 | 1-30STE931)
SCALE: N.T.S.



INTERMITTENT CHECK SLOT

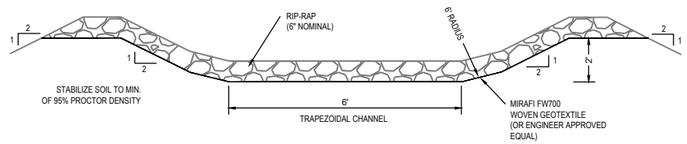


NOTE:
FINISH GRADE, FERTILIZE AND SEED BEFORE APPLYING R.E.C.P.

SECTION E (1-30STE931 | 1-30STE931)
SCALE: N.T.S.

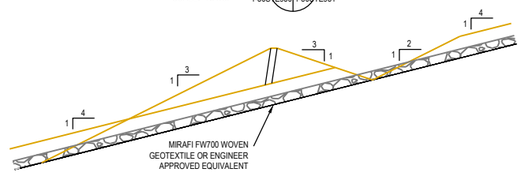
ROLLED EROSION CONTROL PRODUCT (R.E.C.P.)

DETAIL 7 (1-30STE930 | 1-30STE931)
SCALE: N.T.S.



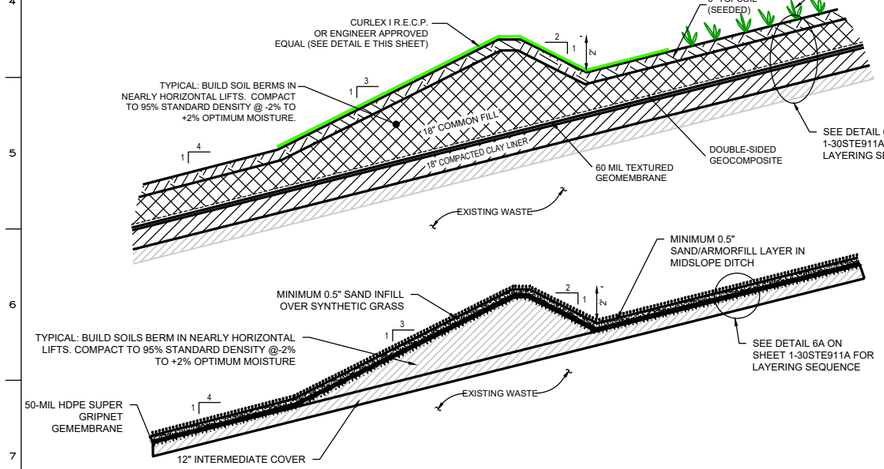
GROUTED RIP RAP LETDOWN STRUCTURE DETAIL

DETAIL 9 (1-30STE930 | 1-30STE931)
SCALE: N.T.S.



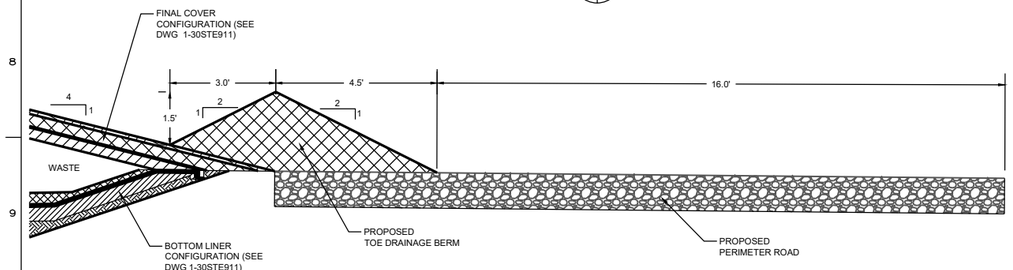
LETDOWN STRUCTURE INTERSECTION

DETAIL 10 (1-30STE930 | 1-30STE931)
SCALE: N.T.S.



MID-SLOPE BERM DETAILS

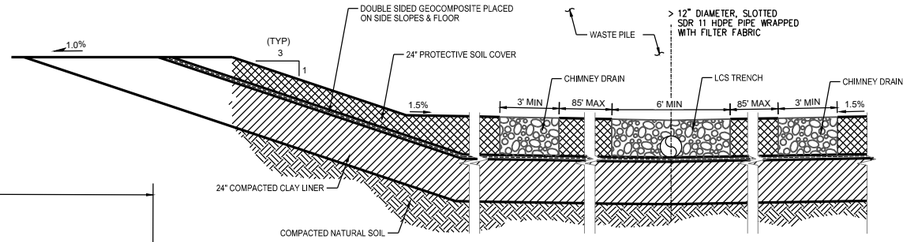
DETAIL 8 (1-30STE930 | 1-30STE931)
SCALE: N.T.S.



BERM @ TOE OF LANDFILL

DETAIL 11 (1-30STE930 | 1-30STE931)
SCALE: N.T.S.

NOTE:
PROPOSED TOE DRAINAGE BERM NOT FOR USE WITH CLOSURE TURF OPTION.



LCS TRENCH & CHIMNEY DRAINS

SECTION F (1-30STE931)
SCALE: N.T.S.

NOTE:
1. CHIMNEY DRAINS WILL BE UTILIZED IF ON-SITE MATERIAL OR BOTTOM ASH FROM THE FACILITY ARE USED FOR PROTECTIVE COVER.
2. MAXIMUM CHIMNEY DRAIN SPACING WILL BE 85 FT SEPARATION.

THIS DRAWING ISSUED FOR THE LANDFILL RUN-ON AND RUN-OFF CONTROL SYSTEMS PLAN

PROJECT NUMBER: 216/002/35257154

Terracon
25809 I-30 SOUTH BRYANT, AR 72022
PH: (501) 847-9292 FAX: (501) 847-9210

DATE	NO.	DESCRIPTION	APPD.

REVISIONS

RUN-ON RUN-OFF CONTROL SYSTEM PLAN

SWEPCO
JOHN W. TURK JR. POWER PLANT UNIT 1
FULTON ARKANSAS

SOLID WASTE LANDFILL MISCELLANEOUS DETAILS

LANDFILL PERMIT 2018

DWG. NO. 504 - FIGURE 4 REV:

SCALE: N.T.S. | CIVIL
DR: TLB
CH: DCM
LNGR: DCM
PROJ ENGR: DCM
DATE: 8/10/26
APPROVED BY

AEP SERVICE CORP.
1 RIVERSIDE PLAZA
COLUMBUS, OH 43215

IGS0207

SYSTEM DATE= DD-MMM-YYYY
SYSTEM TIME= HOUR:MINUTE

DWG NO. 505 - FIGURE 5

LEACHATE COLLECTION POND

INV 274.42

(2) 36" DIA HDPE CULVERTS L = 170.00

INV 290.49 (TYP. BOTH CULVERTS)

INV 291.97 (TYP BOTH CULVERTS)

INSPECTION WELL

PIPE

(2)INSPECTION WELLS

INSPECTION WELL

MH-P-01-B

MH-P-01-A

CAP (TYP)

EXIST. 12" DIAMETER SLOTTED HDPE LEACHATE COLLECTION PIPE (TYPICAL)

DISPOSAL CELL "1"

EXIST. 12" DIAMETER SOLID HDPE PIPE (TYPICAL)

24" SLIDE GATE VALVE

INV 282.57

INV 284.00

STORM WATER RUNOFF POND

WETLANDS

N 1,671,000

N 1,670,500

N 1,670,000

N 1,669,500

E 760,500

E 761,000

E 761,500

E 762,000

E 762,500

SCALE: 1" = 60'

NOTE:
ALL CONTOURS SHOWN ARE TO FINISH GRADE OF ROADS, DITCHES, BERMS, PROTECTIVE SOIL COVER AND CAP

NOTE:
ALL ELEVATIONS SHOWN ARE IN NAVD 1988 DATUM
NAVD 1988 DATUM MV 301.00 = PLANT DATUM MV 101.00
ALL COORDINATES, ELEVATIONS AND DIMENSIONS ARE EXPRESSED IN FEET OR DECIMAL OF A FOOT UNLESS OTHERWISE NOTED

THIS DRAWING ISSUED FOR THE LANDFILL RUN-ON AND RUN-OFF CONTROL SYSTEMS PLAN

PROJECT NUMBER: 216/002/35257154

Terracon
29809 I-30 SOUTH BRYANT, AR 72022
PH. (501) 847-9292 FAX. (501) 847-9210

DATE	NO.	DESCRIPTION	APPR.

REVISIONS

RUN-ON RUN-OFF CONTROL SYSTEM PLAN

SWEPCO

JOHN W. TURK JR. POWER PLANT UNIT 1

FULTON ARKANSAS

SOLID WASTE LANDFILL
DISPOSAL CELL "1"
PHASE 1 ACTIVE ASH FILLING SEQUENCE

DWG. NO. 505 - FIGURE 5 REV:

SCALE: N.T.S. CIVIL
DR: TLB
CH: DCM
ENGR: DCM
PM: DCM
DATE: 8/19/08
APPROVED BY

AEP SERVICE CORP.
1 RIVERSIDE PLAZA
COLUMBUS, OH 43215

SYSTEM DATE= DD-MMM-YYYY
SYSTEM TIME= HOUR:MIN/TE

IGS0207

DWG NO. 506 - FIGURE 6

LEACHATE COLLECTION POND

N 1,671,000

N 1,670,500

N 1,670,000

N 1,669,500

E 760,500

E 761,000

E 761,500

E 762,000

MH-P-02-A

INSPECTION WELL

INSTALL PIPE

MH-P-02-B

INSPECTION WELL

INSTALL PIPE

EXIST. 12" DIAMETER SLOTTED HDPE LEACHATE COLLECTION PIPE (TYPICAL)

CHIMNEY DRAIN

CHIMNEY DRAIN

CHIMNEY DRAIN

LEACHATE COLLECTION TRENCH (TYP)

EXIST. 12" DIAMETER PERFORATED HDPE LEACHATE COLLECTION PIPE (TYPICAL)

END SOLID / BEG PERF

EXIST. 12" DIAMETER SOLID HDPE PIPE (TYPICAL)

DISPOSAL CELL "2"

DISPOSAL CELL "1"

AREA UNDER INTERMEDIATE COVER

TEST PAD AREA

STORM WATER RUNOFF POND

WETLANDS

SECURITY FENCE

SECURITY FENCE

N

0 30' 60' 120' 180'

SCALE: 1"= 60'

NOTE:
ALL CONTOURS SHOWN ARE TO FINISH GRADE OF ROADS, DITCHES, BERMS, PROTECTIVE SOIL COVER AND CAP

NOTE:
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NAVD 1988 DATUM ADD 301.00 = PLANT DATUM ADD 101.00
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THIS DRAWING ISSUED FOR THE LANDFILL RUN-ON AND RUN-OFF CONTROL SYSTEMS PLAN

PROJECT NUMBER: 216/002/35257154

Terracon
25809 I-30 SOUTH BRYANT, AR 72022
PH. (501) 847-9292 FAX. (501) 847-9210

DATE | NO. | DESCRIPTION | APPD.

REVISIONS

RUN-ON RUN-OFF CONTROL SYSTEM PLAN

SWEPCO

JOHN W. TURK JR. POWER PLANT UNIT 1

FULTON ARKANSAS

SOLID WASTE LANDFILL
DISPOSAL CELL "2"
PHASE 2 ACTIVE ASH FILLING SEQUENCE

DWG. NO. 506 - FIGURE 6 | REV:

SCALE: N.T.S. | CIVIL

DR: TLB
CH: DCM
ENGR: DCM
PROJ. ENGR: DCM
DATE: 8/10/26

APPROVED BY

AEP SERVICE CORP.
1 RIVERSIDE PLAZA
COLUMBUS, OH 43215

SYSTEM DATE= DD-MMM-YYYY
SYSTEM TIME= HOUR:MINUTE

IGS0207

DWG NO. 507 - FIGURE 7

E 759,500 | E 760,500 | E 761,500

N 1,671,500

N 1,670,500

N 1,669,500

MAKE-UP WATER POND

WASTE WATER POND

LEACHATE COLLECTION POND

STORM WATER RUNOFF POND

WETLANDS

MH-P-03-A

MH-P-03-B

INSPECTION WELL

INSTALL PIPE

INSPECTION WELL

INSTALL PIPE

INSTALL 12" DIAMETER PERFORATED HDPE LEACHATE COLLECTION PIPE (TYPICAL)

INSTALL 12" DIAMETER PERFORATED HDPE LEACHATE COLLECTION PIPE (TYPICAL)

DISPOSAL CELL "3"

DISPOSAL CELL "2"

DISPOSAL CELL "1"

CHIMNEY DRAIN

LEACHATE COLLECTION TRENCH (TYP)

CHIMNEY DRAIN

CHIMNEY DRAIN

INSTALL 12" DIAMETER SOLID HDPE PIPE (TYPICAL)

N

0 50' 100' 200' 300'

SCALE: 1" = 100'

NOTE:
ALL CONTOURS SHOWN ARE TO FINISH GRADE OF ROADS, DITCHES, BERMS, PROTECTIVE SOIL COVER AND CAP

NOTE:
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THIS DRAWING ISSUED FOR THE LANDFILL RUN-ON AND RUN-OFF CONTROL SYSTEMS PLAN

PROJECT NUMBER: 216/002/35177239

Terracon
25809 I-30 SOUTH BRYANT, AR 72022
PH. (501) 847-9292 FAX. (501) 847-9210

DATE	NO.	DESCRIPTION	APPD.

REVISIONS

RUN-ON RUN-OFF CONTROL SYSTEM PLAN

SWEPCO
JOHN W. TURK JR. POWER PLANT UNIT 1
FULTON ARKANSAS

SOLID WASTE LANDFILL
DISPOSAL CELL "3"
PHASE 3 ACTIVE ASH FILLING SEQUENCE

DWG. NO. 507 - FIGURE 7 REV:

SCALE: N.T.S. CIVIL

DR: TLB
CH: DCM
ENGR: DCM
PVSU ENGR: DCM
DATE: 8/19/26

APPROVED BY

AMERICAN ELECTRIC POWER

AEP SERVICE CORP.
1 RIVERSIDE PLAZA
COLUMBUS, OH 43215

IGS0207

SYSTEM DATE= DD-MMM-YYYY
SYSTEM TIME= HOUR:MINUTE

DWG NO. 508 - FIGURE 8

MAKE-UP WATER POND

WASTE WATER POND

LEACHATE COLLECTION POND

STORM WATER RUNOFF POND

WETLANDS

DISPOSAL CELL "3"

DISPOSAL CELL "2"

DISPOSAL CELL "1"

DISPOSAL CELL "4"

℄ 759.500

℄ 760.500

℄ 761.500

N 1,671,500

N 1,671,000

N 1,670,500

N 1,670,000

N 1,669,500

MH-P-04

MH-P-03-B

INSPECTION WELL

INSPECTION WELL

INSTALL PIPE

INSTALL PIPE

INSTALL 12" DIAMETER SLOTTED HDPE LEACHATE COLLECTION PIPE (TYPICAL)

INSTALL 12" DIAMETER PERFORATED HDPE LEACHATE COLLECTION PIPE (TYPICAL)

LEACHATE COLLECTION TRENCH (TYP)

CHIMNEY DRAIN

CHIMNEY DRAIN

CHIMNEY DRAIN

INSTALL 12" DIAMETER SOLID HDPE PIPE (TYPICAL)

N

0 50' 100' 200' 300'

SCALE: 1" = 100'

NOTE:
ALL CONTOURS SHOWN ARE TO FINISH GRADE OF ROADS, DITCHES, BERMS, PROTECTIVE SOIL COVER AND CAP

NOTE:
ALL ELEVATIONS SHOWN ARE IN NAVD 1988 DATUM
NAVD 1988 DATUM MV 301.00 = PLANT DATUM MV 101.00
ALL COORDINATES, ELEVATIONS AND DIMENSIONS ARE EXPRESSED IN FEET OR DECIMAL OF A FOOT UNLESS OTHERWISE NOTED

THIS DRAWING ISSUED FOR THE LANDFILL RUN-ON AND RUN-OFF CONTROL SYSTEMS PLAN

PROJECT NUMBER: 216/002/35177239

Terracon
25809 I-30 SOUTH BRYANT, AR 72022
PH: (501) 847-9292 FAX: (501) 847-9210

DATE	NO.	DESCRIPTION	APPD.

REVISIONS

RUN-ON RUN-OFF CONTROL SYSTEM PLAN

SWEPCO
JOHN W. TURK JR. POWER PLANT UNIT 1
FULTON ARKANSAS

SOLID WASTE LANDFILL
DISPOSAL CELL "4"
PHASE 4 ACTIVE ASH FILLING SEQUENCE

DWG. NO. 508 - FIGURE 8 REV:

SCALE: N/A CIVIL
DR: TLB
CH: DCM
ENGR: DCM
PROJ ENGR: DCM
DATE: 8/13/08
APPROVED BY:

AMERICAN ELECTRIC POWER
AEP SERVICE CORP.
1 RIVERSIDE PLAZA
COLUMBUS, OH 43215

SYSTEM DATE= DD-MMM-YYYY
SYSTEM TIME= HOUR:MINUTE

IGS0207

DWG NO. 509 - FIGURE 9

MAKE-UP WATER POND

WASTE WATER POND

LEACHATE COLLECTION POND

STORM WATER RUNOFF POND

WETLANDS

DISPOSAL CELL "4"

DISPOSAL CELL "3"

DISPOSAL CELL "2"

DISPOSAL CELL "1"

DISPOSAL CELL "5"

E 759,500

E 760,500

E 761,500

N 1,671,500

N 1,670,500

N 1,669,500

MH-P-04

MH-P-05

INSTALL PIPE

INSPECTION WELL

INSTALL 12" DIAMETER PERFORATED HDPE LEACHATE COLLECTION PIPE (TYPICAL)

INSTALL 12" DIAMETER SOLID HDPE PIPE (TYPICAL)

CHIMNEY DRAIN

LEACHATE COLLECTION TRENCH (TYP)

3'

6'

85'

NOTE:
ALL CONTOURS SHOWN ARE TO FINISH GRADE OF ROADS, DITCHES, BERMS, PROTECTIVE SOIL COVER AND CAP

NOTE:
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NAVD 1988 DATUM ANV 301.00 = PLANT DATUM ANV 101.00
ALL COORDINATES, ELEVATIONS AND DIMENSIONS ARE EXPRESSED IN FEET OR DECIMAL OF A FOOT UNLESS OTHERWISE NOTED

0 50' 100' 200' 300'
SCALE: 1" = 100'

THIS DRAWING ISSUED FOR THE LANDFILL RUN-ON AND RUN-OFF CONTROL SYSTEMS PLAN

PROJECT NUMBER: 216/002/35177239

Terracon
25809 I-30 SOUTH BRYANT, AR 72022
PH. (501) 847-9292 FAX. (501) 847-9210

DATE | NO. | DESCRIPTION | APPR.
REVISIONS

RUN-ON RUN-OFF CONTROL SYSTEM PLAN

SWEPCO
JOHN W. TURK JR. POWER PLANT UNIT 1
FULTON ARKANSAS

SOLID WASTE LANDFILL
DISPOSAL CELL "5"
PHASE 5 ACTIVE ASH FILLING SEQUENCE

DWG. NO. 509 - FIGURE 9 REV:

SCALE: NTS | CIVIL
DR: TLB
CH: DCM
ENGR: DCM
PM: DCM
DATE: 8/19/26
APPROVED BY

AMERICAN ELECTRIC POWER
AEP SERVICE CORP.
1 RIVERSIDE PLAZA
COLUMBUS, OH 43215

IDS0207

SYSTEM DATE= DD-MMM-YYYY
SYSTEM TIME= HOUR:MINUTE

APPENDIX 2: PLAN REVIEW LOG

Plan Review and Changes in Facility Configuration

Scheduled reviews and Plan amendments shall be recorded in the Plan Review Log below. This log must be completed even if no amendment is made to the Plan as a result of the review.

By	Date	Amendment Description	P.E. certification required?	P.E. Name	Licensing State: Registration No.
Terracon	10/07/16	Initial Plan	Yes	David McCormick	Arkansas: 9199
Terracon	9/13/21	Five-year review	Yes	David McCormick	Arkansas: 9199
Terracon	9/1/26	Five-year review	Yes	David McCormick	Arkansas: 9199

APPENDIX 3: PROFESSIONAL ENGINEER CERTIFICATION PAGE

Professional Engineer Certification Page

The undersigned licensed Professional Engineer (P.E.) attests that this Run-on and Run-off Control Plan has been prepared, reviewed, and/or revised in accordance with good engineering practice, including consideration of applicable industry standards and the requirements of 40 CFR 257. This certification in no way relieves the owner or operator of the facility of his/her duty to fully implement this Plan.

Engineer: David McCormick, P.E.

Registration Number: 9199

State: Arkansas

Date: 9.1.26

9.1.26



P.E. certification is required for the original Plan and Plan reviews and amendments.