Johns Manville
A Berkshire Hathaway Company



2235 North Hwy 411
Etowah, Tennessee 37331
423-263-1229
www.jm.com

March 21, 2024

Via USPS No. 7022 0410 0000 3973 8541

TN Department of Environmental Conservation
Division of Water Resources
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, TN 37243

RE: 2024 Annual Stormwater Monitoring Reports for TNR058715 and TNR051828

To Whom it may concern:

Please find attached 2024 Annual Stormwater Monitoring Report and laboratory analysis for TNR058715, also enclosed is 2024 Annual Stormwater Monitoring Report for TNR051828.

Analytical results were in compliance with applicable sectors of the Tennessee Multi-Sector General Permit (TMSP) permit limits.

Please contact Michael Yoder, Environmental Manager at 423-263-6286 if you have any questions.

Sincerely,

David Kissell

David Kissell
Plant Manager
Johns Manville
Etowah, TN

Tennessee Department of Environment and Conservation
Division of Water Resources
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243

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MAR 25 2024

# ANNUAL STORMWATER MONITORING REPORT

for Stormwater Discharges Associated with Industrial Activity under the
**TENNESSEE MULTI-SECTOR GENERAL PERMIT (TMSP)**

| | |
|---|---|
| Facility Name: JOHNS MANVILLE | TMSP Number: TNR051828 |
| Contact Person: DAVID KISSELL | Phone Number: 423-263-6268 |
| This report is submitted for the following calendar year (e.g. 2015): 2024 | Outfall Number: 001 |
| List all TMSP sectors which apply to discharge from this outfall: E | Sample Date: 3/06/2024 |
| Low Concentration Waiver (Note 3): list all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived: | |

**DIRECTIONS:** In the spaces below, provide the results of stormwater monitoring for the designated outfall. For each outfall, one Annual Stormwater Monitoring Report must be submitted. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the TMSP and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be grab.

| Parameter | Cut-off Conc. (mg/L) | Annual Sample Result (mg/L) |
|---|---|---|
| Aluminum, Total | 0.75 | |
| Ammonia | 4.0 | |
| Arsenic, Total | 0.16854 | |
| BOD, 5-Day | 30 | |
| Cadmium, Total | 0.0159 | |
| COD | 120 | |
| Copper, Total | 0.018 | |
| Cyanide, Total | 0.064 | |
| Fluoride | 1.8 | |
| Iron, Total | 5.0 | |
| Lead, Total | 0.15 | |

| Parameter (continued) | Cut-off Conc. (mg/L) | Annual Sample Result (mg/L) |
|---|---|---|
| Magnesium, Total | 0.0636 | |
| Mercury, Total | 0.0024 | |
| Nickel, Total | 0.875 | |
| Nitrate + Nitrite Nitrogen | 0.68 | |
| Oil and Grease | 15 | |
| pH | 5.0-9.0 | |
| Phosphorus, Total (as P) | 2.0 | |
| Selenium, Total | 0.2385 | |
| Silver, Total | 0.032 | |
| Total Suspended Solids | 150 | 3 |
| Zinc, Total | 0.395 | |

**CERTIFICATION AND SIGNATURE:** (Make all entries in ink, not with a pencil. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.)

I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

| DAVID KISSELL | PLANT MANAGER | Daryl Kissell | 3-21-24 |
|---|---|---|---|
| Printed Name | Official Title | Signature | Date |

**Tennessee Multi-Sector General Permit (TMSP)**
**Annual Stormwater Monitoring Report – Instructions**

1. The purpose of this form is to report stormwater (SW) monitoring results under the TMSP. **Only 1 sample per calendar year is required** (except Sectors J and H). **For each outfall, one Annual Stormwater Monitoring Report form must be submitted**. Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than one pH sample is collected for any outfall, report all individual pH monitoring results for a given outfall on the corresponding form or in a separate, referenced attachment if necessary. If more than 1 sample for other parameters is collected at any outfall, submit the average results of all monitoring data (for calculating average, use the numerical method detection limit (MDL) if a parameter was not detected). If all monitoring results for a given parameter were non-detect, report the parameter as below detection limit (BDL) and provide the applicable numerical MDL value in parentheses (e.g., BDL (<0.001 mg/L)). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The form(s) shall be submitted 30 days after the sampling results are obtained, but no later than the March 31st of the following calendar year, whichever comes first.
2. If the results of annual SW runoff monitoring demonstrates that the facility has exceeded the cut-off concentration(s), the permittee must inform the division's local Environmental Field Office (EFO) in writing within 30 days from the time SW monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time SW monitoring results were received, the facility must review its stormwater pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the monitoring cut-off concentrations for that parameter, and submit to the local EFO a summary of the proposed SWPPP modifications (including a timetable for implementation).
3. Low Concentration Waiver – When the average concentration for a pollutant calculated from monitoring data collected from 4 consecutive calendar years of monitoring is less than the cut-off concentration, a facility may waive monitoring requirements in the following annual monitoring period. This form should be used for certification of low concentration waiver provision.

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Mining and quarrying facilities only (Sectors J and H) should submit one signed copy of Annual Stormwater Monitoring Report to the division's Mining Section at the following address:

**Tennessee Division of Water Resources**
**Mining Section**
**3711 Middlebrook Pike**
**Knoxville, TN 37921**

Tennessee Department of Environment and Conservation
Division of Water Resources
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243



**ANNUAL STORMWATER MONITORING REPORT**
for Stormwater Discharges Associated with Industrial Activity under the
**TENNESSEE MULTI-SECTOR GENERAL PERMIT (TMSP)**

| | |
|---|---|
| Facility Name: JOHNS MANVILLE | TMSP Number: TNR051828 |
| Contact Person: DAVID KISSELL | Phone Number: 423-263-6268 |
| This report is submitted for the following calendar year (e.g. 2015): 2024 | Outfall Number: 004 |
| List all TMSP sectors which apply to discharge from this outfall: E | Sample Date: 3/06/2024 |
| Low Concentration Waiver (Note 3): list all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived: | |

**DIRECTIONS:** In the spaces below, provide the results of stormwater monitoring for the designated outfall. For each outfall, one Annual Stormwater Monitoring Report must be submitted. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the TMSP and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be grab.

| Parameter | Cut-off Conc. (mg/L) | Annual Sample Result (mg/L) |
|---|---|---|
| Aluminum, Total | 0.75 | |
| Ammonia | 4.0 | |
| Arsenic, Total | 0.16854 | |
| BOD, 5-Day | 30 | |
| Cadmium, Total | 0.0159 | |
| COD | 120 | |
| Copper, Total | 0.018 | |
| Cyanide, Total | 0.064 | |
| Fluoride | 1.8 | |
| Iron, Total | 5.0 | |
| Lead, Total | 0.15 | |

| Parameter (continued) | Cut-off Conc. (mg/L) | Annual Sample Result (mg/L) |
|---|---|---|
| Magnesium, Total | 0.0636 | |
| Mercury, Total | 0.0024 | |
| Nickel, Total | 0.875 | |
| Nitrate + Nitrite Nitrogen | 0.68 | |
| Oil and Grease | 15 | |
| pH | 5.0-9.0 | |
| Phosphorus, Total (as P) | 2.0 | |
| Selenium, Total | 0.2385 | |
| Silver, Total | 0.032 | |
| Total Suspended Solids | 150 | 19 |
| Zinc, Total | 0.395 | |

**CERTIFICATION AND SIGNATURE:** (Make all entries in ink, not with a pencil. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.)

I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

| DAVID KISSELL | PLANT MANAGER | David Kissell | 3-21-24 |
|---|---|---|---|
| Printed Name | Official Title | Signature | Date |

**Tennessee Multi-Sector General Permit (TMSP)**
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**Mining Section**
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**Knoxville, TN 37921**

Tennessee Department of Environment and Conservation
Division of Water Resources
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243

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BY

**ANNUAL STORMWATER MONITORING REPORT**
for Stormwater Discharges Associated with Industrial Activity under the
**TENNESSEE MULTI-SECTOR GENERAL PERMIT (TMSP)**

| | |
|---|---|
| Facility Name: JOHNS MANVILLE | TMSP Number: TNR058715 |
| Contact Person: DAVID KISSELL | Phone Number: 423-263-6268 |
| This report is submitted for the following calendar year (e.g. 2015): 2024 | Outfall Number: 005 |
| List all TMSP sectors which apply to discharge from this outfall: L | Sample Date: 3/06/2024 |
| Low Concentration Waiver (Note 3): list all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived: | |

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| Arsenic, Total | 0.16854 | |
| BOD, 5-Day | 30 | |
| Cadmium, Total | 0.0159 | |
| COD | 120 | |
| Copper, Total | 0.018 | |
| Cyanide, Total | 0.064 | |
| Fluoride | 1.8 | |
| Iron, Total | 5.0 | 0.166 |
| Lead, Total | 0.15 | |

| Parameter (continued) | Cut-off Conc. (mg/L) | Annual Sample Result (mg/L) |
|---|---|---|
| Magnesium, Total | 0.0636 | |
| Mercury, Total | 0.0024 | |
| Nickel, Total | 0.875 | |
| Nitrate + Nitrite Nitrogen | 0.68 | |
| Oil and Grease | 15 | |
| pH | 5.0-9.0 | |
| Phosphorus, Total (as P) | 2.0 | |
| Selenium, Total | 0.2385 | |
| Silver, Total | 0.032 | |
| Total Suspended Solids | 150 | 30 |
| Zinc, Total | 0.395 | |

**CERTIFICATION AND SIGNATURE:** (Make all entries in ink, not with a pencil. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.)

I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

| DAVID KISSELL | PLANT MANAGER | David Kissell | 3-21-24 |
|---|---|---|---|
| Printed Name | Official Title | Signature | Date |

## Tennessee Multi-Sector General Permit (TMSP)
## Annual Stormwater Monitoring Report – Instructions

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# ANNUAL STORMWATER MONITORING REPORT

for Stormwater Discharges Associated with Industrial Activity under the
**TENNESSEE MULTI-SECTOR GENERAL PERMIT (TMSP)**

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|---|---|
| Facility Name: JOHNS MANVILLE | TMSP Number: TNR058715 |
| Contact Person: DAVID KISSELL | Phone Number: 423-263-6268 |
| This report is submitted for the following calendar year (e.g. 2015): 2024 | Outfall Number: 006 |
| List all TMSP sectors which apply to discharge from this outfall: L | Sample Date: 3/06/2024 |
| Low Concentration Waiver (Note 3): list all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived: | |

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| Fluoride | 1.8 | |
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| Lead, Total | 0.15 | |

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| DAVID KISSELL | PLANT MANAGER | David Kissell | 3-21-24 |
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| | |
|---|---|
| Facility Name: JOHNS MANVILLE | TMSP Number: TNR058715 |
| Contact Person: DAVID KISSELL | Phone Number: 423-263-6268 |
| This report is submitted for the following calendar year (e.g. 2015): 2024 | Outfall Number: 007 |
| List all TMSP sectors which apply to discharge from this outfall: L | Sample Date: 3/06/2024 |
| Low Concentration Waiver (Note 3): list all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived: | |

**DIRECTIONS:** In the spaces below, provide the results of stormwater monitoring for the designated outfall. For each outfall, one Annual Stormwater Monitoring Report must be submitted. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the TMSP and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be grab.

| Parameter | Cut-off Conc. (mg/L) | Annual Sample Result (mg/L) |
|---|---|---|
| Aluminum, Total | 0.75 | |
| Ammonia | 4.0 | |
| Arsenic, Total | 0.16854 | |
| BOD, 5-Day | 30 | |
| Cadmium, Total | 0.0159 | |
| COD | 120 | |
| Copper, Total | 0.018 | |
| Cyanide, Total | 0.064 | |
| Fluoride | 1.8 | |
| Iron, Total | 5.0 | 0.442 |
| Lead, Total | 0.15 | |

| Parameter (continued) | Cut-off Conc. (mg/L) | Annual Sample Result (mg/L) |
|---|---|---|
| Magnesium, Total | 0.0636 | |
| Mercury, Total | 0.0024 | |
| Nickel, Total | 0.875 | |
| Nitrate + Nitrite Nitrogen | 0.68 | |
| Oil and Grease | 15 | |
| pH | 5.0-9.0 | |
| Phosphorus, Total (as P) | 2.0 | |
| Selenium, Total | 0.2385 | |
| Silver, Total | 0.032 | |
| Total Suspended Solids | 150 | 28 |
| Zinc, Total | 0.395 | |

**CERTIFICATION AND SIGNATURE:** (Make all entries in ink, not with a pencil. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.)

I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

| DAVID KISSELL | PLANT MANAGER | David Kissell | 3-21-24 |
|---|---|---|---|
| Printed Name | Official Title | Signature | Date |

**Tennessee Multi-Sector General Permit (TMSP)**
**Annual Stormwater Monitoring Report – Instructions**

1. The purpose of this form is to report stormwater (SW) monitoring results under the TMSP. **Only 1 sample per calendar year is required** (except Sectors J and H). **For each outfall, one Annual Stormwater Monitoring Report form must be submitted**. Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than one pH sample is collected for any outfall, report all individual pH monitoring results for a given outfall on the corresponding form or in a separate, referenced attachment if necessary. If more than 1 sample for other parameters is collected at any outfall, submit the average results of all monitoring data (for calculating average, use the numerical method detection limit (MDL) if a parameter was not detected). If all monitoring results for a given parameter were non-detect, report the parameter as below detection limit (BDL) and provide the applicable numerical MDL value in parentheses (e.g., BDL (<0.001 mg/L)). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The form(s) shall be submitted 30 days after the sampling results are obtained, but no later than the March 31st of the following calendar year, whichever comes first.
2. If the results of annual SW runoff monitoring demonstrates that the facility has exceeded the cut-off concentration(s), the permittee must inform the division's local Environmental Field Office (EFO) in writing within 30 days from the time SW monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time SW monitoring results were received, the facility must review its stormwater pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the monitoring cut-off concentrations for that parameter, and submit to the local EFO a summary of the proposed SWPPP modifications (including a timetable for implementation).
3. Low Concentration Waiver – When the average concentration for a pollutant calculated from monitoring data collected from 4 consecutive calendar years of monitoring is less than the cut-off concentration, a facility may waive monitoring requirements in the following annual monitoring period. This form should be used for certification of low concentration waiver provision.

Complete, sign and date this form before it is submitted. Keep a copy of the completed form for your records. The division supports and encourages submission of electronic documents (e.g., scanned reports submitted as PDF files) by using the following dedicated email address: Water.Permits@tn.gov. You may also submit the original completed and signed form to the appropriate Environmental Field Office using the addresses below.

| EFO | Street Address | City | Zip | Telephone |
|---|---|---|---|---|
| Chattanooga | 1301 Riverfront Parkway, Suite #206 | Chattanooga | 37402 | (423) 634-5745 |
| Columbia | 1421 Hampshire Pike | Columbia | 38401 | (931) 380-3371 |
| Cookeville | 1221 South Willow Ave. | Cookeville | 38506 | (931) 432-4015 |
| Jackson | 1625 Hollywood Drive | Jackson | 38305 | (731) 512-1300 |
| Johnson City | 2305 Silverdale Road | Johnson City | 37601 | (423) 854-5400 |
| Knoxville | 3711 Middlebrook Pike | Knoxville | 37921 | (865) 594-6035 |
| Memphis | 8383 Wolf Lake Drive | Bartlett | 38133 | (901) 371-3000 |
| Nashville | 711 RS Gass Boulevard | Nashville | 37216 | (615) 687-7000 |

Mining and quarrying facilities only (Sectors J and H) should submit one signed copy of Annual Stormwater Monitoring Report to the division's Mining Section at the following address:

**Tennessee Division of Water Resources**
**Mining Section**
**3711 Middlebrook Pike**
**Knoxville, TN 37921**

# ANALYTICAL REPORT

March 18, 2024

Cp
Tc
Ss
Cn
Sr
Qc
Gl
Al
Sc

## Johns Manville

| | |
|---|---|
| Sample Delivery Group: | L1713553 |
| Samples Received: | 03/08/2024 |
| Project Number: | |
| Description: | Landfill Yearly Stormwater |



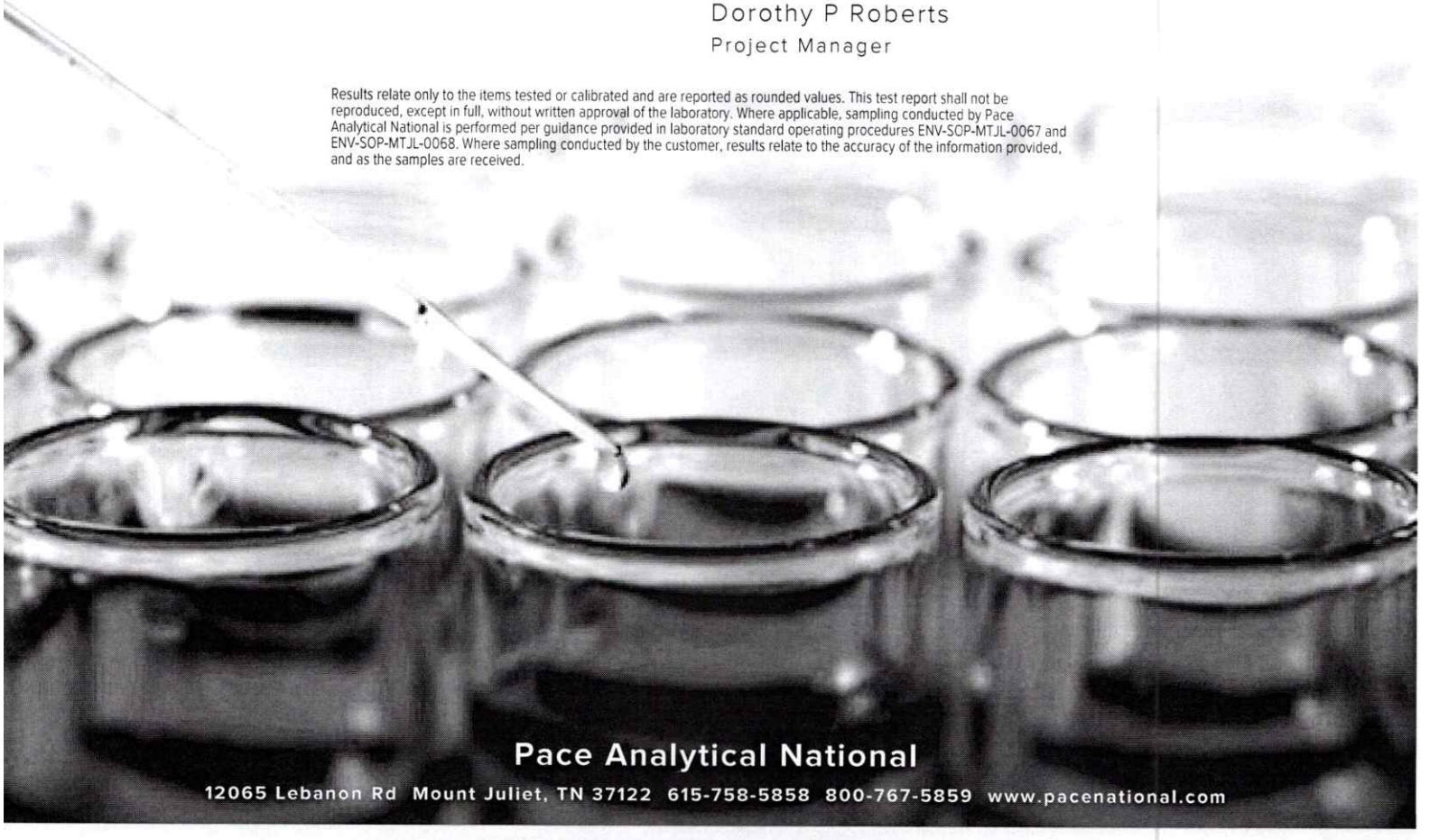
Report To:

David Kissel
PO Box 309
Etowah, TN 37331

Entire Report Reviewed By:

Dorothy P Roberts
Project Manager





**Pace Analytical National**
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

# TABLE OF CONTENTS

# SAMPLE SUMMARY

## 005 L1713553-01 WW

Collected by: Wyatt Barnett
Collected date/time: 03/06/24 07:30
Received date/time: 03/08/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Metals (ICP) by Method 200.7 | WG2246519 | 1 | 03/15/24 04:10 | 03/15/24 19:05 | DJS | Mt. Juliet, TN |

## 006 L1713553-02 WW

Collected by: Wyatt Barnett
Collected date/time: 03/06/24 07:45
Received date/time: 03/08/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Metals (ICP) by Method 200.7 | WG2246519 | 1 | 03/15/24 04:10 | 03/15/24 19:08 | DJS | Mt. Juliet, TN |

## 007 L1713553-03 WW

Collected by: Wyatt Barnett
Collected date/time: 03/06/24 07:30
Received date/time: 03/08/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Metals (ICP) by Method 200.7 | WG2246519 | 1 | 03/15/24 04:10 | 03/15/24 19:11 | DJS | Mt. Juliet, TN |

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Dorothy P Roberts

Dorothy P Roberts
Project Manager

005
Collected date/time: 03/06/24 07:30

# SAMPLE RESULTS - 01
L1713553

## Metals (ICP) by Method 200.7

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Iron | 0.166 | | 0.100 | 1 | 03/15/2024 19:05 | WG2246519 |

## Metals (ICP) by Method 200.7

| Analyte | Result | Qualifier | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Iron | 0.251 | | 0.100 | 1 | 03/15/2024 19:08 | WG2246519 |

## Metals (ICP) by Method 200.7

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Iron | 0.442 | | 0.100 | 1 | 03/15/2024 19:11 | WG2246519 |

# QUALITY CONTROL SUMMARY

L1713553-01,02,03

## Method Blank (MB)

(MB) R4046330-1 03/15/24 18:29

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Iron | U | | 0.0205 | 0.100 |

## Laboratory Control Sample (LCS)

(LCS) R4046330-2 03/15/24 18:31

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Iron | 10.0 | 10.1 | 101 | 85.0-115 | |

## L1713540-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1713540-01 03/15/24 18:34 • (MS) R4046330-4 03/15/24 18:40 • (MSD) R4046330-5 03/15/24 18:42

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Iron | 10.0 | 0.111 | 10.2 | 10.3 | 101 | 102 | 1 | 70.0-130 | | | 1.33 | 20 |

## L1714106-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1714106-01 03/15/24 18:46 • (MS) R4046330-6 03/15/24 18:48 • (MSD) R4046330-7 03/15/24 18:51

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Iron | 10.0 | ND | 10.4 | 10.2 | 104 | 102 | 1 | 70.0-130 | | | 2.04 | 20 |

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

| | |
|---|---|
| MDL | Method Detection Limit. |
| ND | Not detected at the Reporting Limit (or MDL where applicable). |
| RDL | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Johns Manville**

PO Box 309
Etowah, TN 37331

Billing Information:
Accounts Payable 6-03
PO Box 5108
Mail Stop 6-03
Denver, CO 80217-5108

Pres Chk

Report to: David Kissel

Email To: david.kissell@jm.com;treatment@JM.com;jenni

Project Description: Landfill Yearly Stormwater

City/State Collected: Athens, TN

Please Circle: PT MT CT (ET)

Phone: 423-263-6286

Client Project #

Lab Project #: Landfill

Collected by (print): Wyatt Barnett

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___ *See below

*Rush?* (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | FEICP 250mlHDPE-HNO3 | NH3 250mlHDPENaThioH2SO4 | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|
| 005 | Grab | WW | | 3-6-24 | 7:30 | 2 | X | X | | -01 |
| 006 | Grab | WW | | 3-6-24 | 7:45 | 2 | X | X | | -02 |
| 007 | Grab | WW | | 3-6-24 | 7:30 | 2 | X | X | | -03 |

NV 3/8

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 171353
H243

Acctnum: JOHNSMAN
Template: T172959
Prelogin: P973143
PM: 296 - Darren Reeder
PB: 1-4-2023 GM
Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Iron test only
- Collected, refridgerated, shipped the following day

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__UPS __FedEx __Courier _____

Tracking # 7754 5187 9021

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
|---|---|---|---|
| Wyatt Barnett | 3-7-24 | 9:00 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) |
| | | | Jackie Patterson (14) |

Trip Blank Received: Yes (No) HCL / MeoH TBR

Temp: MS 4.9°C 1.2 to 1.2 Bottles Received: 3

If preservation required by Login: Date/Time

Date: 3/8/24 Time: 900

PH-10BDH5021 TRC-235236
CR6-20221V

Condition: NCF / (OK)

# JOHNS MANVILLE – COKER LANDFILL

**Annual Stormwater Sampling Procedure**

**Facility Location: 187 County Road 166, Athens, Tennessee 37331**

Inspector's Name: Wyatt Barnett

Date: 3-6-24

| | | | |
|---|---|---|---|
| **Duration of storm event (hours):** 8 hrs | | | |
| **Rainfall measurement or estimate (inches)†:** .5 inch | | | |
| **Duration between storm event sampled and end of the previous measurable (greater than 0.1 inch rainfall) storm event†:** previous event greater than 72 hours | | | |
| **Estimate of total volume of discharge sampled (gallons):** NA | | | |
| **Pollutant of Concern** | **Tested Value (mg/L) Outfall 005** | **Tested Value (mg/L) Outfall 006** | **Tested Value (mg/L) Outfall 007** |
| Total Suspended Solids (TSS) | 30 | 12 | 28 |
| Total Recoverable Iron | .166 | .251 | .442 |

† Value must be greater than 0.1 inches of rainfall and must of occurred at least 72 hours from the previous measurable (greater than 0.1 inch rainfall) event.

Additional Comments:

MAR 25 2024

SAMPLED BY: Wyatt Bassett DATE OF SAMPLE: 3-6-24

| | 001 | 004 | 005 | 006 | 007 | | |
|---|---|---|---|---|---|---|---|
| TYPE OF SAMPLE: | GRAB: | GRAB: | GRAB: | COMP: | COMP: | COMP: | DUPL: |
| SAMPLE LOCATION: | #4 | #4 | RAS: | SUMP: | WEIR: | POND 2: | POND 2: |
| SAMPLE BOTTLE #: | #4 | #4 | RAS: | SUMP: | WEIR: | POND 2: | POND 2: |
| CRUCIBLE #: | #4 | #4 | RAS: | SUMP: | WEIR: | POND 2: | POND 2: |
| (Wt./CRUCIBLE/FILTER & DRY SOLIDS) | 8411 | 4429 | 4381 | 3668 | 4256 | | |
| Wt. CRUCIBLE/FILTER: | 8408 | 4410 | 4366 | 3662 | 4242 | | |
| Wt. DRY SOLIDS: | 3 | 19 | 15 | 6 | 14 | | |
| Ml OF SAMPLES: | 5 | 5 | 5 | 50 | 50 | 50 | 50 |
| | AVG. MG/L | | LBS. | | LBS. | LBS. | LBS. |
| (TOTAL SUSPENDED SOLIDS Mg/L) | 6 | 38 | 30 | 12 | 28 | | |
| (Wt. CRUCIBLE/FILTER & DRY SOLIDS) | | | | | | | |
| (Wt. CRUCIBLE/FILTER & ASH) | | | | | | | |
| Wt. VOL. SOLIDS: | | | | | | | |
| Ml. OF SAMPLE: | 5 | 5 | 5 | 50 | 50 | 50 | 50 |
| (VOLATILE SUSPENDED SOLIDS) | | | | | | | |
| | AVG. MG/L | | LBS. | | | | |