**JOINT MEETING OF ESSEX & UNION CNTYS (41813)**

Date: 5/19/2022

# New Jersey Department of Environmental Protection
# Reason for Application

## Permit Being Modified

**Permit Class:** BOP **Number:** 200001

**Description of Modifications:** This permit is covering the replacement of the existing (2) waste gas burners (flares) for the (4) digesters covered under U2 and the waste gas burner for the (2) sludge storage tanks covered under U37 with (2) new enclosed flares covered under U4 as CD4, CD5, PT4 and PT5.

The digesters and storage tanks will be vented to the new flares where only one flare will operate at a time. The storage tanks, which vent only a small fraction of the amount of gas produced in the digesters, will be vented all the time but the digesters will only be vented in the event of an emergency when the Cogen facility and boilers are unable to use the digester gas.

# New Jersey Department of Environmental Protection
## Facility Profile (General)

**Facility Name (AIMS):** JOINT MEETING OF ESSEX & UNION CN **Facility ID (AIMS):** 41813

**Street Address:** JOINT MEETING OF ESSEX AND UNION COUNTIE
500 SOUTH FIRST ST
ELIZABETH, NJ 07202

**Mailing Address:** JOINT MEETING OF ESSEX AND UNION COUNTIE
500 SOUTH FIRST ST
ELIZABETH, NJ 07202

**State Plane Coordinates:**

| | |
|---|---|
| **X-Coordinate:** | 2,129,000 |
| **Y-Coordinate:** | 659,000 |
| **Units:** | Feet |
| **Datum:** | NAD27 |
| **Source Org.:** | xAddress Match |
| **Source Type:** | Hard Copy Map |

**County:** Union

**Location Description:** Municipal Wastewater Treatment

**Industry:**

| | |
|---|---|
| **Primary SIC:** | 4952 |
| **Secondary SIC:** | |
| **NAICS:** | 221320 |

# New Jersey Department of Environmental Protection
## Facility Profile (General)

**Contact Type:** **Air Permit Information Contact**

**Organization:** N/A
**Name:** STEPHEN T. PASCUCCI, P.E.
**Title:** CHEMICAL ENGINEER
**Phone:** (908) 353-1313 x
**Fax:** (908) 353-7925 x
**Other:** ( ) - x
**Type:**
**Email:** spascucci@jmeuc.com

**Org. Type:** Municipal
**NJ EIN:** 00226002146

**Mailing Address:** 500 SOUTH FIRST STREET
ELIZABETH, NJ 07202

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**Contact Type:** **BOP - Operating Permits**

**Organization:** N/A
**Name:** STEPHEN T. PASCUCCI, P.E.
**Title:** CHEMICAL ENGINEER
**Phone:** (908) 353-1313 x0324
**Fax:** (908) 353-7925 x
**Other:** ( ) - x
**Type:**
**Email:** spascucci@jmeuc.com

**Org. Type:** Municipal
**NJ EIN:** 00226002146

**Mailing Address:** 500 SOUTH FIRST STREET
ELIZABETH, NJ 07202

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**Contact Type:** **Emission Statements**

**Organization:** N/A
**Name:** STEPHEN T. PASCUCCI, P.E.
**Title:** CHEMICAL ENGINEER
**Phone:** (908) 353-1313 x
**Fax:** (908) 353-7925 x
**Other:** ( ) - x
**Type:**
**Email:** spascucci@jmeuc.com

**Org. Type:** Municipal
**NJ EIN:** 00226002146

**Mailing Address:** 500 SOUTH FIRST STREET
ELIZABETH, NJ 07202

# New Jersey Department of Environmental Protection
## Facility Profile (General)

**Contact Type:** **On-Site Manager**

**Organization:** N/A

**Name:** STEPHEN DOWHAN

**Title:** SUPERINTENDENT

**Phone:** (908) 353-1313 x

**Fax:** (908) 353-7925 x

**Other:** ( ) - x

**Type:**

**Email:** sdowhan@jmeuc.com

**Org. Type:** Municipal

**NJ EIN:** 00226002146

**Mailing Address:** 500 SOUTH FIRST STREET
ELIZABETH, NJ 07202

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**Contact Type:** **Responsible Official**

**Organization:** N/A

**Name:** HANIFA JOHNSON

**Title:** EXECUTIVE DIRECTOR

**Phone:** (908) 353-1313 x

**Fax:** (908) 353-7925 x

**Other:** ( ) - x

**Type:**

**Email:** hjohnson@jmeuc.com

**Org. Type:** Municipal

**NJ EIN:** 00226002146

**Mailing Address:** 500 SOUTH FIRST STREET
ELIZABETH, NJ 07202

# New Jersey Department of Environmental Protection
## Equipment Inventory

| Equip. NJID | Facility's Designation | Equipment Description | Equipment Type | Certificate Number | Install Date | Grand-Fathered | Last Mod. (Since 1968) | Equip. Set ID |
|---|---|---|---|---|---|---|---|---|
| E1 | E1 | 250 HP CLEAVER BROOKS BOILER # 1 | Boiler | 115024 | 12/31/1977 | No | 8/1/1993 | |
| E3 | E3 | WASTE GAS BURNER AND STANDBY: DIGESTER # 1 | Other Equipment | 035931 | | No | 11/1/1977 | |
| E4 | E4 | WASTE GAS BURNER AND STANDBY: DIGESTER # 2 | Other Equipment | 035931 | | No | 11/1/1977 | |
| E5 | E5 | WASTE GAS BURNER AND STANDBY: DIGESTER # 3 | Other Equipment | 035931 | | No | 11/1/1977 | |
| E6 | E6 | WASTE GAS BURNER AND STANDBY: DIGESTER # 4 | Other Equipment | 035931 | | No | 11/1/1977 | |
| E7 | E7 | 190 HP - HB SMITH BOILER # 3 | Boiler | 035932 | | No | 9/1/1977 | |
| E8 | E8 | 190 HP - HB SMITH BOILER # 4 | Boiler | 035932 | | No | 9/1/1977 | |
| E9 | E9 | 190 HP - HB SMITH BOILER # 5 | Boiler | 035932 | | No | 9/1/1977 | |
| E11 | E11 | ENGINATOR # 2 | Stationary Reciprocating Engine | PCP030002 | | No | 5/15/1998 | |
| E12 | E12 | ENGINATOR # 1 | Stationary Reciprocating Engine | PCP030002 | | No | 5/15/1998 | |
| E13 | E13 | ENGINATOR # 3 | Stationary Reciprocating Engine | PCP030002 | | No | 5/15/1998 | |
| E14 | E14 | PUGMILL # 1, EF-19 | Manufacturing and Materials Handling Equipment | 116550 | | No | 8/1/1993 | |
| E15 | E15 | PUGMILL # 2, EF-20 | Manufacturing and Materials Handling Equipment | 116550 | | No | 8/1/1993 | |

# New Jersey Department of Environmental Protection
## Equipment Inventory

| Equip. NJID | Facility's Designation | Equipment Description | Equipment Type | Certificate Number | Install Date | Grand-Fathered | Last Mod. (Since 1968) | Equip. Set ID |
|---|---|---|---|---|---|---|---|---|
| E46 | E46 | REVERSING BELT CONVEYOR # 3 | Manufacturing and Materials Handling Equipment | PCP990001 | 2/1/1991 | No | 8/24/1998 | |
| E47 | E47 | REVERSING BELT CONVEYOR # 4 | Manufacturing and Materials Handling Equipment | PCP990001 | 2/1/1991 | No | 8/24/1998 | |
| E48 | E48 | STABILIZED SLUDGE BIN # 1 | Storage Vessel | PCP990001 | 2/1/1991 | No | 8/24/1998 | |
| E49 | E49 | STABILIZED SLUDGE BIN # 2 | Storage Vessel | PCP990001 | 2/1/1991 | No | 8/24/1998 | |
| E50 | E50 | STABILIZED SLUDGE BIN # 3 | Storage Vessel | PCP990001 | 2/1/1991 | No | 8/24/1998 | |
| E51 | E51 | Sludge Dryer No. 2 | Manufacturing and Materials Handling Equipment | PCP000001 | 7/15/1996 | No | 9/11/2000 | |
| E52 | E52 | Sludge Dryer No. 3 | Manufacturing and Materials Handling Equipment | PCP000002 | 7/15/1996 | No | 9/11/2000 | |
| E53 | E53 | Sludge Dryer No. 1 | Manufacturing and Materials Handling Equipment | PCP000003 | 7/15/1996 | No | 9/11/2000 | |
| E54 | E54 | PROCESS DRAIN LIFT STATION WET WELL | Manufacturing and Materials Handling Equipment | PCP970006 | | No | 8/24/1998 | |
| E57 | E57 | WASTE GAS BURNER: SLUDGE STORAGE TANK # 1 | Storage Vessel | 118781 | | No | 2/1/1995 | |

# New Jersey Department of Environmental Protection
## Equipment Inventory

| Equip. NJID | Facility's Designation | Equipment Description | Equipment Type | Certificate Number | Install Date | Grand-Fathered | Last Mod. (Since 1968) | Equip. Set ID |
|---|---|---|---|---|---|---|---|---|
| E58 | E58 | WASTE GAS BURNER: SLUDGE STORAGE TANK # 2 | Storage Vessel | 118781 | | No | 1/1/1994 | |
| E61 | E61 | VAC-U-MAX UNIT - TRANSFER STATION | Manufacturing and Materials Handling Equipment | LOG # 01980987 | | No | 8/19/1998 | |
| E62 | E62 | ROLL COMPACTOR HOPPER # 1 | Manufacturing and Materials Handling Equipment | LOG # 01980992 | | No | 7/13/1998 | |
| E63 | E63 | ROLL COMPACTOR HOPPER # 2 | Manufacturing and Materials Handling Equipment | LOG # 01980992 | | No | 7/13/1998 | |
| E64 | E64 | ROLL COMPACTOR HOPPER # 3 | Manufacturing and Materials Handling Equipment | LOG # 01980992 | | No | 7/13/1998 | |
| E65 | E65 | ROLL COMPACTOR # 1 | Manufacturing and Materials Handling Equipment | LOG # 01980992 | | No | 7/13/1998 | |
| E66 | E66 | ROLL COMPACTOR # 2 | Manufacturing and Materials Handling Equipment | LOG # 01980992 | | No | 7/13/1998 | |
| E67 | E67 | ROLL COMPACTOR # 3 | Manufacturing and Materials Handling Equipment | LOG # 01980992 | | No | 7/13/1998 | |
| E68 | E68 | VIBRATING SCREEN # 1 | Manufacturing and Materials Handling Equipment | LOG # 01980992 | | No | 7/13/1998 | |

# New Jersey Department of Environmental Protection
## Control Device Inventory

| CD NJID | Facility's Designation | Description | CD Type | Install Date | Grand-Fathered | Last Mod. (Since 1968) | CD Set ID |
|---|---|---|---|---|---|---|---|
| CD1 | CD1 | WASTE GAS BURNER - DIGESTER BUILDING | Flare | | No | 11/1/1977 | |
| CD2 | CD2 | WASTE GAS BURNER - DIGESTER BUILDING | Flare | | No | 11/1/1977 | |
| CD3 | CD3 | LIME DUST FILTER | Particulate Filter (Baghouse) | | No | 2/1/1991 | |
| CD4 | New WGB1 | Enclosed Waste Gas Burner #1 | Flare | 12/1/2024 | No | 10/15/2021 | |
| CD5 | New WGB2 | Enclosed Waste Gas Burner #2 | Flare | 12/1/2024 | No | 10/15/2021 | |
| CD7 | CD7 | WASTE GAS BURNER -SST #1 AND 2 | Flare | | No | 1/1/1994 | |
| CD8 | CD8 | VAC-U-MAX FILTER TRANSFER STATION | Particulate Filter (Cartridge) | | No | 7/1/1992 | |
| CD9 | CD9 | DUST FILTER NO. 1- FLUE V | Particulate Filter (Baghouse) | | No | 10/25/1995 | |
| CD10 | CD10 | DUST FILTER NO. 2- FLUE V | Particulate Filter (Baghouse) | | No | 10/25/1995 | |
| CD11 | CD11 | Cyclone | Cyclone | 6/6/2000 | No | 9/11/2000 | |
| CD12 | CD12 | Direct Contact Condenser | Condenser | 7/15/1996 | No | 9/11/2000 | |
| CD13 | CD13 | Venturi Scrubber | Scrubber (Venturi) | 7/15/1996 | No | 9/11/2000 | |
| CD14 | CD14 | Boiler | Other | 7/15/1996 | No | 9/11/2000 | |
| CD15 | CD15 | Cyclone | Cyclone | 6/6/2000 | No | 9/11/2000 | |
| CD16 | CD16 | Direct Contact Condenser | Condenser | 7/15/1996 | No | 9/11/2000 | |
| CD17 | CD17 | Venturi Scrubber | Scrubber (Venturi) | 7/15/1996 | No | 9/11/2000 | |
| CD18 | CD18 | Boiler | Other | 7/15/1996 | No | 9/11/2000 | |
| CD19 | CD19 | Cyclone | Cyclone | 6/6/2000 | No | 9/11/2000 | |

**JOINT MEETING OF ESSEX & UNION CNTYS (41813)**

Date: 5/19/2022

## New Jersey Department of Environmental Protection
## Emission Points Inventory

| PT NJID | Facility's Designation | Description | Config. | Equiv. Diam. (in.) | Height (ft.) | Dist. to Prop. Line (ft) | Exhaust Temp. (deg. F) | | | Exhaust Vol. (acfm) | | | Discharge Direction | PT Set ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Avg. | Min. | Max. | Avg. | Min. | Max. | | |
| PT1 | PT1 | Boiler #1 (Cleaver Brooks-250hP) P&O Bldg. | Round | 27 | 35 | 400 | 500.0 | 475.0 | 525.0 | 3,500.0 | 3,325.0 | 3,675.0 | Horizontal | |
| PT3 | PT3 | (3) 190 hP Smith boilers #3, 4, and 5 - Boiler house | Round | 36 | 23 | 200 | 400.0 | 380.0 | 420.0 | 5,500.0 | 4,800.0 | 5,970.0 | Up | |
| PT4 | New WGB1 | New Waste Gas Burner #1 | Round | 90 | 30 | 142 | 700.0 | 500.0 | 900.0 | 29,000.0 | 200.0 | 66,000.0 | Up | |
| PT5 | New WGB2 | New Waste Gas Burner #2 | Round | 90 | 30 | 142 | 700.0 | 500.0 | 900.0 | 29,000.0 | 200.0 | 66,000.0 | Up | |
| PT13 | PT13 | Liquid sludge storage tanks EF-21 & EF22 - Dewatering Facility | Round | 12 | 188 | 78 | 70.0 | 65.0 | 75.0 | 800.0 | 760.0 | 840.0 | Up | |
| PT16 | PT16 | (2) 125 hP-Kewanee boilers #1 & #2, SDB-1 &SDB-2 - Dewatering Facility | Round | 22 | 76 | 158 | 325.0 | 310.0 | 341.0 | 3,210.0 | 3,180.0 | 3,240.0 | Up | |
| PT18 | PT18 | Lime storage silo, LS-1 and lime day bins #1 & #2 - Dewatering Facility | Round | 6 | 65 | 135 | 70.0 | 65.0 | 80.0 | 1,000.0 | 950.0 | 1,050.0 | Up | |
| PT19 | PT19 | Centrate wetwell, CP-1 - Dewatering Facility | Round | 6 | 79 | 56 | 78.0 | 50.0 | 85.0 | 78.0 | 50.0 | 105.0 | Up | |
| PT21 | PT21 | Waste gas burner & standby: Digesters #1, 2, 3, & 4 - Digester Bldg. | Round | 6 | 53 | 150 | 2,200.0 | 2,090.0 | 2,310.0 | 9,500.0 | 9,025.0 | 9,975.0 | Up | |
| PT22 | PT22 | Waste gas burner & standby: Digesters #1, 2, 3, & 4 - Digester Bldg. | Round | 6 | 53 | 150 | 2,200.0 | 2,090.0 | 2,310.0 | 9,500.0 | 9,025.0 | 9,975.0 | Up | |
| PT23 | PT23 | Dewatering Facility Exhaust Fans | Rectangle | 36 | 33 | 113 | 70.0 | -20.0 | 120.0 | 105,000.0 | 99,750.0 | 110,250.0 | Horizontal | |
| PT31 | PT31 | Dryer/Boiler #2 | Round | 24 | 76 | 90 | 400.0 | 350.0 | 460.0 | 6,000.0 | 5,480.0 | 6,150.0 | Up | |
| PT32 | PT32 | Dryer/Boiler #3 | Round | 24 | 76 | 93 | 400.0 | 350.0 | 460.0 | 6,000.0 | 5,480.0 | 6,150.0 | Up | |
| PT33 | PT33 | Dryer/Boiler # 1 | Round | 24 | 76 | 88 | 400.0 | 350.0 | 460.0 | 6,000.0 | 5,480.0 | 6,150.0 | Up | |
| PT34 | PT34 | Process drain lift station wet well - Dryer Bldg. | Round | 4 | 40 | 103 | 70.0 | 65.0 | 80.0 | 33.0 | 30.0 | 35.0 | Up | |
| PT37 | PT37 | Waste gas burner: sludge storage tanks #1 & #2 - Waste gas burner bldg. | Round | 20 | 39 | 240 | 1,200.0 | 1,140.0 | 1,260.0 | 524.0 | 498.0 | 550.0 | Up | |

## New Jersey Department of Environmental Protection
## Emission Unit/Batch Process Inventory

### U 4 New WGB SLUDGE DIGESTERS AND SLUDGE STORAGE TANKS CONTROLLED BY FLARES (CD4 OR CD5)

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours Min. | Annual Oper. Hours Max. | VOC Range | Flow (acfm) Min. | Flow (acfm) Max. | Temp. (deg F) Min. | Temp. (deg F) Max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS1 | DIGESTER #1 | SLUDGE DIGESTER #1 CONTROLLED BY FLARE | Normal - Steady State | E3 | CD4 (P)<br>CD5 (S) | PT4<br>PT5 | 5-01-007-89 | 0.0 | 8,760.0 | | 0.0 | 300.0 | 60.0 | 100.0 |
| OS2 | DIGESTER #2 | SLUDGE DIGESTER #2 CONTROLLED BY FLARE | Normal - Steady State | E4 | CD4 (P)<br>CD5 (S) | PT4<br>PT5 | 5-01-007-89 | 0.0 | 8,760.0 | | 0.0 | 300.0 | 60.0 | 100.0 |
| OS3 | DIGESTER #3 | SLUDGE DIGESTER #3 CONTROLLED BY FLARE | Normal - Steady State | E5 | CD4 (P)<br>CD5 (S) | PT4<br>PT5 | 5-01-007-89 | 0.0 | 8,760.0 | | 0.0 | 300.0 | 60.0 | 100.0 |
| OS4 | DIGESTER #4 | SLUDGE DIGESTER #4 CONTROLLED BY FLARE | Normal - Steady State | E6 | CD4 (P)<br>CD5 (S) | PT4<br>PT5 | 5-01-007-89 | 0.0 | 8,760.0 | | 0.0 | 300.0 | 60.0 | 100.0 |
| OS5 | SST #1 | SLUDGE STORAGE TANK #1 CONTROLLED BY FLARE | Normal - Steady State | E57 | CD4 (P)<br>CD5 (S) | PT4<br>PT5 | 5-01-007-89 | 0.0 | 8,760.0 | | 0.0 | 30.0 | 60.0 | 100.0 |
| OS6 | SST #2 | SLUDGE STORAGE TANK #2 CONTROLLED BY FLARE | Normal - Steady State | E58 | CD4 (P)<br>CD5 (S) | PT4<br>PT5 | 5-01-007-89 | 0.0 | 8,760.0 | | 0.0 | 30.0 | 60.0 | 100.0 |

### U 12 Pugmills PUGMILLS # 1 AND # 2

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours Min. | Annual Oper. Hours Max. | VOC Range | Flow (acfm) Min. | Flow (acfm) Max. | Temp. (deg F) Min. | Temp. (deg F) Max. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OS1 | OS1 | TWO CENTRIFUGES TO ONE OF TWO PUGMILLS | Normal - Steady State | E14 | | PT121 | 5-01-007-99 | | 8,760.0 | | 500.0 | 1,490.0 | 65.0 | 120.0 |

# New Jersey Department of Environmental Protection
## Potential to Emit

**Subject Item:** U2 Wst gas Brn

**Operating Scenario:** OS2

**Step:**

| Air Contaminant Category (HAPS) | Fugitive Emissions | Emissions Before Controls | Emissions After Controls | Total Emissions | Units | Alt. Em. Limit |
|---|---|---|---|---|---|---|
| NOx (Total) | | | 0.40000000 | 0.40000000 | lb/hr | No |
| Pb | | | | | lb/hr | No |
| PM-10 (Total) | | | 0.17500000 | 0.17500000 | lb/hr | No |
| SO2 | | | 1.49000000 | 1.49000000 | lb/hr | No |
| TSP | | | 0.17500000 | 0.17500000 | lb/hr | No |
| VOC (Total) | | | 0.53400000 | 0.53400000 | lb/hr | No |

**Subject Item:** U4 New WGB

**Operating Scenario:** OS0 Summary

**Step:**

| Air Contaminant Category (HAPS) | Fugitive Emissions | Emissions Before Controls | Emissions After Controls | Total Emissions | Units | Alt. Em. Limit |
|---|---|---|---|---|---|---|
| CO | | | 36.00000000 | 36.00000000 | tons/yr | No |
| NOx (Total) | | | 7.20000000 | 7.20000000 | tons/yr | No |
| PM-10 (Total) | | | 3.20000000 | 3.20000000 | tons/yr | No |
| SO2 | | | 35.00000000 | 35.00000000 | tons/yr | No |
| TSP | | | 3.20000000 | 3.20000000 | tons/yr | No |
| VOC (Total) | | | 10.00000000 | 10.00000000 | tons/yr | No |

# New Jersey Department of Environmental Protection
## Potential to Emit

**Subject Item:** U4 New WGB

**Operating Scenario:** OS1

**Step:**

| Air Contaminant Category (HAPS) | Fugitive Emissions | Emissions Before Controls | Emissions After Controls | Total Emissions | Units | Alt. Em. Limit |
|---|---|---|---|---|---|---|
| CO | | | 2.00000000 | 2.00000000 | lb/hr | No |
| NOx (Total) | | | 0.40000000 | 0.40000000 | lb/hr | No |
| PM-10 (Total) | | | 0.20000000 | 0.20000000 | lb/hr | No |
| SO2 | | | 2.90000000 | 2.90000000 | lb/hr | No |
| TSP | | | 0.20000000 | 0.20000000 | lb/hr | No |
| VOC (Total) | | | 0.60000000 | 0.60000000 | lb/hr | No |

**Subject Item:** U4 New WGB

**Operating Scenario:** OS2

**Step:**

| Air Contaminant Category (HAPS) | Fugitive Emissions | Emissions Before Controls | Emissions After Controls | Total Emissions | Units | Alt. Em. Limit |
|---|---|---|---|---|---|---|
| CO | | | 2.00000000 | 2.00000000 | lb/hr | No |
| HAPs (Total) | | | | | lb/hr | No |
| NOx (Total) | | | 0.40000000 | 0.40000000 | lb/hr | No |
| Pb | | | | | lb/hr | No |
| PM-10 (Total) | | | 0.20000000 | 0.20000000 | lb/hr | No |
| SO2 | | | 2.90000000 | 2.90000000 | lb/hr | No |
| TSP | | | 0.20000000 | 0.20000000 | lb/hr | No |
| VOC (Total) | | | 0.60000000 | 0.60000000 | lb/hr | No |

## New Jersey Department of Environmental Protection
## Potential to Emit

**Subject Item:** U4 New WGB

**Operating Scenario:** OS3

**Step:**

| Air Contaminant Category (HAPS) | Fugitive Emissions | Emissions Before Controls | Emissions After Controls | Total Emissions | Units | Alt. Em. Limit |
|---|---|---|---|---|---|---|
| CO | | | 2.00000000 | 2.00000000 | lb/hr | No |
| HAPs (Total) | | | | | lb/hr | No |
| NOx (Total) | | | 0.40000000 | 0.40000000 | lb/hr | No |
| Pb | | | | | lb/hr | No |
| PM-10 (Total) | | | 0.20000000 | 0.20000000 | lb/hr | No |
| SO2 | | | 2.90000000 | 2.90000000 | lb/hr | No |
| TSP | | | 0.20000000 | 0.20000000 | lb/hr | No |
| VOC (Total) | | | 0.60000000 | 0.60000000 | lb/hr | No |

**Subject Item:** U4 New WGB

**Operating Scenario:** OS4

**Step:**

| Air Contaminant Category (HAPS) | Fugitive Emissions | Emissions Before Controls | Emissions After Controls | Total Emissions | Units | Alt. Em. Limit |
|---|---|---|---|---|---|---|
| CO | | | 2.00000000 | 2.00000000 | lb/hr | No |
| HAPs (Total) | | | | | lb/hr | No |
| NOx (Total) | | | 0.40000000 | 0.40000000 | lb/hr | No |
| Pb | | | | | lb/hr | No |
| PM-10 (Total) | | | 0.20000000 | 0.20000000 | lb/hr | No |
| SO2 | | | 2.90000000 | 2.90000000 | lb/hr | No |
| TSP | | | 0.20000000 | 0.20000000 | lb/hr | No |
| VOC (Total) | | | 0.60000000 | 0.60000000 | lb/hr | No |

# New Jersey Department of Environmental Protection
## Potential to Emit

**Subject Item:** U4 New WGB

**Operating Scenario:** OS5

**Step:**

| Air Contaminant Category (HAPS) | Fugitive Emissions | Emissions Before Controls | Emissions After Controls | Total Emissions | Units | Alt. Em. Limit |
|---|---|---|---|---|---|---|
| CO | | | 0.10000000 | 0.10000000 | lb/hr | No |
| NOx (Total) | | | 0.03000000 | 0.03000000 | lb/hr | No |
| PM-10 (Total) | | | 0.01500000 | 0.01500000 | lb/hr | No |
| SO2 | | | 0.20000000 | 0.20000000 | lb/hr | No |
| TSP | | | 0.01500000 | 0.01500000 | lb/hr | No |
| VOC (Total) | | | 0.03000000 | 0.03000000 | lb/hr | No |

**Subject Item:** U4 New WGB

**Operating Scenario:** OS6

**Step:**

| Air Contaminant Category (HAPS) | Fugitive Emissions | Emissions Before Controls | Emissions After Controls | Total Emissions | Units | Alt. Em. Limit |
|---|---|---|---|---|---|---|
| CO | | | 0.10000000 | 0.10000000 | lb/hr | No |
| HAPs (Total) | | | | | lb/hr | No |
| NOx (Total) | | | 0.03000000 | 0.03000000 | lb/hr | No |
| Pb | | | | | lb/hr | No |
| PM-10 (Total) | | | 0.01500000 | 0.01500000 | lb/hr | No |
| SO2 | | | 0.20000000 | 0.20000000 | lb/hr | No |
| TSP | | | 0.01500000 | 0.01500000 | lb/hr | No |
| VOC (Total) | | | 0.03000000 | 0.03000000 | lb/hr | No |