

Lehigh County Authority
System Operations Review - November 2023
Presented: December 25, 2023

| | | <u>Nov-23</u> | <u>2023</u> <u>Totals***</u> | <u>2022 Totals</u> | <u>2021 Totals</u> |
|---------------------------------|-----------------|---------------|---------------------------------|--------------------|--------------------|
| Recordable Safety Incidents* | Total LCA | 0 | 12 | 7 | 8 |
| Non-Recordable Safety Incidents | Total LCA | 2 | 18 | | |
| Incident Types ** | Injuries | 0 | 18 | | |
| | Property Damage | 0 | 10 | | |
| | Near Miss | 2 | 2 | | |

***Numbers adjusted to match current tracking methodology

* Recordable Safety Incidents are those that result in death, days away from work, restricted duty, medical treatment beyond first aid.

** Safety incidents may be categorized in more than one incident type.

| <u>Year To Date Safety Incidents</u> | <u>Root Cause Analysis Completed</u> | <u>Corrective Actions Identified</u> | <u>Corrective Actions Completed</u> | |
|--|--------------------------------------|--------------------------------------|--|-----------------------------|
| | 25 | 24 | 14 | |
| <u>Current Month Incidents</u> | | | | |
| <u>Description</u> | <u>Date</u> | <u>Type</u> | <u>Root Cause(s)</u> | <u>Corrective Action(s)</u> |
| Incident # 60 - Employee was stepping out of his vehicle after hours at an emergency call out. He slipped on ice | 11/29/2023 | Near Miss | Miss step in unsafe weather conditions | TBD |
| Incident # 59 - Maintenance was installing a new motor when a defective cast iron part failed. Employee grabbed the pump to keep it from failing into the polymer filled tank. At that time the area of his wrist and forearm struck the tank and was stressed by the excessive weight. | 11/7/2023 | Near Miss | In Process | TBD |

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| <u>Critical Activities</u> | <u>System</u> | <u>Description</u> | <u>Nov-23</u> | <u>2023 Totals</u> | <u>2022 Totals</u> | <u>Permit</u> |
|---|--|--|------------------------|------------------------|------------------------|-----------------------------|
| | | | <u>Daily Avg (MGD)</u> | <u>Daily Avg (MGD)</u> | <u>Daily Avg (MGD)</u> | <u>Daily Max (MGD)</u> |
| Water Production | Allentown | Total | 22.11 | 22.64 | 22.47 | 39.0 |
| | | Schantz Spring | 6.49 | 6.98 | 6.90 | 9.0 |
| | | Crystal Spring | 3.89 | 3.89 | 3.87 | 4.0 |
| | | Little Lehigh Creek | 11.74 | 11.74 | 11.68 | 30.0 |
| | | Lehigh River | 0.00 | 0.03 | 0.03 | 28.0 |
| | Central Lehigh | Total | 10.26 | 11.32 | 11.30 | 19.04 MGD Avg |
| | | Feed from Allentown | 6.88 | 7.33 | 7.20 | 7.0 MGD Avg 10.5 MGD Max |
| | | Well Production (CLD) | 3.38 | 3.98 | 4.10 | 8.54 MGD Avg |
| | | Sum of all (12) other Suburban Water Systems | 0.14 | 0.13 | 0.14 | 1.71 Sum of all wells |
| Wastewater Treatment | Kline's Island | 29.92 | 31.70 | 32.61 | 40.0 | |
| | Pretreatment Plant | 4.43 | 4.79 | 5.06 | 5.75 (design capacity) | |
| | Sum of all (5) other Suburban WW Systems | 0.19 | 0.18 | 0.20 | 0.36 | |
| | | | <u>Nov-23</u> | <u>2023 Totals</u> | <u>2022 Totals</u> | <u>2021 Totals</u> |
| Precipitation Totals (inches) | | | 2.92 | 37.76 | 46.47 | 44.67 |
| Compliance Reports Submitted to Allentown | | | 17 | 263 | 277 | 280 |
| Notices of Violation (NOVs) | (Allentown + Suburban) | | 0 | 2 | 4 | 3 |
| Sanitary Sewer Overflows (SSOs)/Bypasses | (Allentown + Suburban) | | 1 | 11 | 18 | 26 |
| Main Breaks Repaired | Allentown | | 3 | 8 | 34 | 20 |
| | Suburban | | 2 | 10 | 15 | 14 |
| Customer Service Phone Inquiries | (Allentown + Suburban) | | 819 | 10495 | 10,539 | 15,857 |
| Water Shutoffs for Non-Payment | (Allentown + Suburban) | | 146 | 1826 | 1,975 | 1,773 |
| Injury Accidents | (Allentown + Suburban) | | 0 | 18 | 7 | 8 |
| Emergency Declarations | Allentown | | 0 | 2 | (3) @ \$386,225.43 | 0 |
| | Suburban | | 0 | 0 | (4) @ \$933,077.1 | (1) @ \$48,000 |
| <u>Significant Repairs/Upgrades:</u> | | | | | | |
| N/A | | | | | | |
| <u>Description of Non-Compliance Events:</u> | | | | | | |
| One SSO occurred in the Allentown Division on Woodland Street. The SSO, which occurred on November 28th, was caused by a blockage of grease and rags. The estimated volume was 40 gallons. | | | | | | |
| <u>Other:</u> | | | | | | |
| A boil water advisory was issued in the Heidelberg Heights Division on October 31st. The advisory was issued due to loss of system pressure durring a planned system repair and was lifted on November 2nd after two consecutive days of coliform sampling. | | | | | | |

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|------------------------------|--------------------------|-------------------------------|---------------|--------------------|--------------------|
| Wastewater Compliance | Allentown | Bypass | 0 | 1 | 2 |
| | | Bypass Volume | 0 | 1,595 | 369,704 |
| | | Permit Exceedances | 0 | 0 | 1 |
| | | Sanitary Sewer Overflows | 0 | 2 | 3 |
| | | COA Issued NOVs | 0 | 1 | 1 |
| | | Regulatory Agency issued NOVs | 0 | 0 | 0 |
| | Arcadia | Bypass | 0 | 0 | 0 |
| | | Bypass Volume | 0 | 0 | 0 |
| | | Permit Exceedances | 0 | 2 | 7 |
| | | Sanitary Sewer Overflows | 0 | 0 | 0 |
| | | NOVs | 0 | 0 | 0 |
| | Heidelberg Heights | Bypass | 0 | 5 | 8 |
| | | Bypass Volume | 0 | 475,882 | 1,392,261 |
| | | Permit Exceedances | 0 | 11 | 16 |
| | | Sanitary Sewer Overflows | 0 | 0 | 0 |
| | | NOVs | 0 | 0 | 0 |
| | Lynn | Bypass | 0 | 0 | 2 |
| | | Bypass Volume | 0 | 0 | 472,000 |
| | | Permit Exceedances | 0 | 0 | 7 |
| | | Sanitary Sewer Overflows | 0 | 0 | 1 |
| | | NOVs | 0 | 0 | 0 |
| | Sand Spring | Bypass | 0 | 0 | 0 |
| | | Bypass Volume | 0 | 0 | 0 |
| | | Permit Exceedances | 3 | 36 | 77 |
| Sanitary Sewer Overflows | | 0 | 0 | 0 | |
| NOVs | | 0 | 0 | 1 | |
| Wynnewood | Bypass | 0 | 0 | 0 | |
| | Bypass Volume | 0 | 0 | 0 | |
| | Permit Exceedances | 0 | 4 | 4 | |
| | Sanitary Sewer Overflows | 0 | 2 | 0 | |
| | NOVs | 0 | 0 | 0 | |
| Water Compliance | Allentown | Boil Water Advisories | 0 | 2 | 1 |
| | Central Lehigh | Boil Water Advisories | 0 | 1 | 2 |
| | Suburban Water Systems | Boil Water Advisories | 1 | 3 | 4 |