Capacity, Management, Operation, and Maintenance Program

Consent Order No. EPD-WQ-4106

Annual Audit – 2023

Gwinnett
Water Resources

December 2023

GWINNETT COUNTY, GEORGIA – DEPARTMENT OF WATER RESOURCES

Capacity, Management, Operation, and Maintenance Program Summary

July 1, 2022 through June 30, 2023

Mission: Provide Superior Water Services at an Excellent Value

Vision: To be widely recognized as a Leader in the Water Industry.

The purpose of this document is to summarize the findings of our annual audit of the Capacity, Management, Operations, and Maintenance (CMOM) Program, which provides for the continued operation and management of Gwinnett County's sanitary sewer collection system in an environmentally conscientious and cost-effective manner. This audit and summary complies with the activities and reporting procedures required to document the progress of the program as outlined in Capacity, Management, Operations and Maintenance (CMOM) Consent Agreement Guidance, Georgia Water Environment Federation, dated February 21, 2003.

The specific goals of the Gwinnett County CMOM Program are to:

1. Minimize the possibility of sanitary sewer overflows (SSOs) from the Gwinnett County Department of Water Resources' sewerage system;
2. Document a response program to mitigate the effects of SSOs when they occur;
3. Prioritize areas of the sewerage system that need to be addressed via short term and long term solutions based in part on consideration of the frequency of SSOs in specific areas of the sewerage system;
4. Document a spill reporting procedure that, at a minimum, ensures for proper reporting and posting of spills that occur from the Gwinnett County Department of Water Resources sewerage system in accordance with the Georgia Department of Natural Resources Environmental Protection Division's (EPD's) Rules and Regulations for Water Quality Control;
5. Provide firm schedules with major milestone dates for completion of sewerage system improvements as identified in the program;
6. Provide a Capital Improvement Plan (CIP) that ensures for the ongoing funding of sewerage system improvements;
7. Document sanitary sewer system annual operating budgets that ensure that at least 25 percent of each budget is earmarked for the implementation and administration of CMOM components; and
8. Provide regularly scheduled reports as defined in this program to the EPD to document compliance with the Gwinnett County Department of Water Resources' program, as provided in paragraphs (1) through (7) above.

1 Table of Contents

2 ORGANIZATION

Gwinnett County's sanitary sewer collection system is operated and maintained by the Gwinnett County Department of Water Resources (GCDWR). The Department includes several separate but interactive divisions that are responsible for the varied activities undertaken by the department.

Appendix B shows organizational charts of the department divisions that are involved in CMOM implementation. It also shows those personnel who have wastewater collections system operator certification, and certification requirements for vacant positions. The identified workgroups and a summary of their respective responsibilities are as follows:

2.1 Engineering & Construction (E&C):

This workgroup has the primary responsibility for the design and construction of the collection system. This responsibility entails substantial project management, oversight of design consultants, oversight of construction work, as well as some in-house design. Engineering & Construction's CMOM-related activities include the design, procurement, and inspection of new capital construction projects and large rehabilitation or replacement projects associated with the collection system.

2.2 Infrastructure Support (IS):

This workgroup is responsible for the maintenance of the GIS databases and maps used to display locations, attributes, and connectivity of the sewer system. Infrastructure Support collects, compiles, and verifies new GIS data proposed to be added to the County databases and incorporates this data into the base maps. In addition, they are responsible for coordinating between Planning and Development and Field Operations during the processing of variance requests. They also work with developers to assure that the sewer demands associated with proposed developments are appropriately calculated and modeled. This workgroup also maintains the Computerized Maintenance Management System (CMMS) used for sewer asset management.

2.3 Field Operations:

The Field Operations Division is comprised of separate sections with specific CMOM-related functions and responsibilities as set out here.

2.3.1 Corrective Maintenance Section:

The Corrective Maintenance section is primarily composed of repair. CMOM-related functions include maintenance and repair work on gravity sewer pipelines, sewer manholes, sewer force mains, and sewer service laterals. They perform reactive repairs, investigate customer complaints, mitigate and address SSOs, and respond to other emergency situations. The Corrective Maintenance Section also provides and coordinates the daily operation of the Field Operations dump trucks to provide delivery and removal of soil, stone, and debris to and from work sites. Landscaping services for completed repairs are managed through this Section to restore disturbed areas.

2.3.2 Warehouse Section:

Although this section provides support for all the operations of GCDWR, the Warehouse Section provides fundamental services to those workgroups with direct responsibility for operation and maintenance of the collection system. Key support functions include, purchasing and procurement, warehousing of parts, and coordinating equipment maintenance. This group is also responsible for coordinating with the Fleet Management group to assure that the vehicles used by the department are properly maintained and are repaired in a timely manner.

2.3.3 Contracts/Support Section:

This section supports the Field Operations Division in several different functions. This section manages the contracts for maintenance and rehabilitation of the sanitary sewer collection system including chemical root control treatments, manhole and pipeline rehabilitation, easement clearing, and sewer assessment. Additionally, this section includes the Dispatch and Investigations group, which determines the nature and severity of situations reported by customers and routes the issue to the appropriate group. Typical job functions of this group include taking customer calls 24/7, monitoring pump station alarms after normal business hours, investigating customer calls, and are often the first representatives of the department to arrive on-site.

2.3.4 Preventive Maintenance Section:

This section is responsible for field inspections and assessment of existing publicly owned gravity sewer mains, sewer force mains, and privately installed sewer extensions proposed to be added to the public system, and perform proactive hydro-jet flushing. CCTV inspections are performed to assess the internal condition of the pipes proactively, as support for corrective measures, and following backups or SSOs. Other responsibilities include manhole condition assessment, critical sewer crossing inspections, and I/I investigations.

2.4 Facility Operations:

The Facility Operations Division is comprised of separate sections with specific CMOM-related functions and responsibilities as set out here.

2.4.1 Water Reclamation Section:

This section is responsible for the operation and maintenance of the County's wastewater treatment facilities. Primarily this section ensures the proper and continuous operation of the mechanical, chemical, and biological treatment processes for the wastewater in compliance with the permitted operations of the facility.

This section is also responsible for implementation of reactive, routine, predictive, and preventive maintenance of the facilities. They are responsible for documenting and reporting the status of compliance with regulations and permit requirements to the appropriate authorities and agencies.

2.4.2 Pump Stations Section:

This section maintains and monitors the performance of the County-owned and operated pump stations which control the transfer of sanitary sewer flows between the mechanical portions of the system and the gravity-driven collection system pipes. This section is also responsible for inspecting air release valves. The section also ensures the proper design, construction, and operation of privately installed pump stations, which are proposed to be dedicated to the County system.

2.5 Technical Services

This workgroup is convened as needed to address departmental-level issues and is not continuously involved in the daily operation of the utility. This workgroup is made up primarily of the Director, Assistant Director, Deputy Directors, and several of the Departmental Division Directors. Other staff members are added as appropriate to effectively address the issue under consideration. The workgroup has departmental-level responsibility for identifying, quantifying, and planning for future sewer needs, supporting state and federal permitting, issuing construction permits for sewer extensions, and monitoring developing regulatory concerns. CMOM-related activities that the strategic planning workgroup has responsibility for include Wastewater Master Plan, CIP development, prioritizing CIP projects across divisions, and reviewing and permitting new sewer extensions proposed by developers and other private entities.

2.6 Operations Technical Support (OTS):

This workgroup identifies, delineates, and prioritizes collection system CIP projects for transfer to E&C. In addition, it manages the contractor's performing installations, relocations, and maintenance of the collection system flow meters. Operations Technical Services also identifies condition assessment needs for implementation by Field Operations crews and performs analyses to develop forecasts of future rehabilitation needs and asset performance. In addition, they are responsible for the maintenance and upkeep of the sewer model and evaluates proposed system improvements. The modeling performed by this work group defines the current state of the collections system. This section also includes the Fats, Oils, and Grease (FOG) Facility Inspection Program, which strive to prevent additional grease loading into the sewer system by food service establishments through education and routine inspection of grease interceptors. Additionally, this section manages the Industrial Pretreatment Program responsible for permitting, monitoring and enforcement of pretreatment program.

2.7 Water Resources Laboratory:

The Water Resources Laboratory is responsible for laboratory analyses for water production and water reclamation. Additionally, this section manages monitoring, and CMOM-related activities that the Water Resources Laboratory has responsibility for including administration of water quality sampling. This group is responsible for testing water samples and reporting the results to the Environmental Protection Division following a major sanitary sewer spill.

3 LEGAL AUTHORITIES

On September 1, 1998, the Gwinnett County Board of Commissioners adopted an ordinance for sewage collection, treatment, and construction. This ordinance, generally known as the "Sewer Use Ordinance", sets forth uniform requirements for contributors into the wastewater collection and treatment system from Gwinnett County, Georgia and enables the County to comply with all applicable state and federal laws required by the Clean Water Act of 1977, amendments to this Act, and the general pretreatment regulations (40 CFR Part 403). Specific provisions of this Sewer Use Ordinance are documented in Chapter 106, Article III of the Gwinnett County Code of Ordinances on the Municode Library (Municode). This ordinance addresses many topics including but not limited to the following.

3.1 Infiltration/Inflow Control:

Section 106-126(a)(2)a.11 Prohibits the discharge of "Stormwater, surface water, groundwater, roof runoff, subsurface drainage, swimming pool drainage, unless specifically authorized by the director."

3.2 Sewer Design and Construction:

Section 106-98(a) provides that "All extensions of the sewer system shall be designed and built in accordance with current DWR standards. The standards shall be those stated in the latest edition of "WATER MAIN AND SANITARY SEWER DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS", which is available at DWR and at the Department of Planning and Development. No installation of pipe or other materials for sewer extensions shall be allowed until the required information is received and the design is approved by the County. Inspection and acceptance procedures shall be specified in these standards."

Standards for the design and construction of sanitary sewer pump stations and force mains are also published and set forth in a standard document which is available directly from the County website.

3.3 Inspection of New and Rehabilitated Sewers:

The Gwinnett County sanitary sewer standards provide minimum acceptable criteria for materials, construction, testing, and installation of sewer lines that are applicable to both new and rehabilitated public sewers.

Section 106-96(d) provides that "Permanent easements for sewer facilities are for the county to install, inspect, observe, measure, sample, repair, protect, maintain and operate any portion of the sewer facilities lying within such easement. It is essential that access to the easement not be obstructed…"

3.4 Satellite Systems:

Section 106-129(g)(1) provides that "If a municipality, other county, or user located within another municipality or county, contributes wastewater to the POTW, the director shall enter into an intergovernmental agreement with the contributing municipality or county."

Section 106-129(g)(3)a. provides that "A requirement for the contributing municipality or county to adopt a sewer use ordinance which is at least as stringent as this division and local limits, including required BMPs, which are at least as stringent as county local limits. The

requirement shall specify that such ordinance and limits must be revised as necessary to reflect changes made to the county's ordinance or local limits;”

3.5 National Pretreatment Program:

Chapter 106-Article III-Division 2 implements the general and specific prohibitions of State and Federal Laws including the National Pretreatment Program (40 CFR 403). These sections incorporate the National Pretreatment Standards by reference and set forth local limits on pollutants discharged by system users as well as monitoring and reporting requirements.

4 MEASURES AND ACTIVITIES

The Department of Water Resources is committed to earmarking 25 percent of the annual sanitary sewer system operating budget for the implementation and administration of CMOM components, refer to Appendix A- XVIII.

4.1 Maintenance Facilities and Equipment:

The Department of Water Resources maintains a 118,000 sq. ft. facility for central administrative, engineering, planning, and maintenance operations, located at 684 Winder Highway, Lawrenceville, GA. Opened in 2000, this facility provides office and assembly accommodations for maintenance operations along with a 20,000 square foot warehouse, 4,000 square foot detached storage building, a 224,000 square foot storage yard, an 11 bay detached garage for storing the hydro-jet trucks, and mechanical and electrical shops for equipment and minor vehicle repair.

In 2013 a separate pump station building was constructed on the central facility to provide a space specifically dedicated to the operation and maintenance of pump stations. This facility is used for pump station component maintenance and storage and to house pump station vehicles and equipment.

GCDWR maintains an adequate heavy equipment inventory to fully equip repair crews including manhole maintenance/repair crews, sewer pipe maintenance/repair crews, hydro-jet crews, and pump station repair crews. GCDWR also maintains vehicles and specialty equipment to fully equip CCTV inspection crews, acoustic inspection crews, electronic technicians, and odor control specialists. The collections workgroup's passenger vehicle inventory is adequate to support field coordinators, contract managers, inspectors, and field technicians. In addition, GCDWR maintains an inventory of stand-by emergency equipment that includes heavy-duty service and repair vehicles, portable generators, pumps, ATVs, light plants, message boards, and arrow boards.

Appendix C contains a more comprehensive list of County vehicles and equipment assigned to the collections system operation and maintenance. The maintenance of vehicles, heavy equipment, and other motorized equipment is centralized countywide through Gwinnett County's Department of Support Services – Fleet Management Division (GCFMD).

4.2 Replacement Parts:

The Department of Water Resources maintains a fully stocked warehouse with all necessary materials required to make emergency repairs on the collection system and to carry on the daily operations of the workgroups responsible for the operation and maintenance of the collection system. Pipe, repair clamps, closure pieces, transition couplings, and similar repair materials are stocked for all sizes of pipelines and force mains in the collection system.

The department also operates the potable water system and stormwater system, and many parts are interchangeable. GCDWR has standardized on one manufacturer of submersible pumps, limiting the amount of replacement parts inventory needed. Replacement parts are stocked for the most common types of failures experienced in pump stations, including control systems, valves, vacuum prime systems and electrical components. A representative sample of items stocked in the warehouse is attached as Appendix D.

As GCDWR has pump stations up to 30 MGD, it is not economically feasible to stock replacement pumps, motors, starters and complete valves for the larger sized facilities, however; in the preparation of project specifications and purchase of equipment, priority is

given to vendors who maintain local service facilities and local inventories of spare parts for the equipment they propose to provide.

The design of the facilities also provides redundancy to allow for the service and repair of failed equipment. The warehouse manages replacement parts through the inventory control system. This software tracks the usage of the parts and notifies inventory personnel when the remaining quantities reach a pre-set reorder point. The parts are then replenished through the procurement process.

4.3 Development and Maintenance of Collection System Maps:

All sewer lines, manholes, pump stations, and related appurtenances have been digitized in a Geographic Information System (GIS). Additionally, paper as-built drawings have been scanned into an Electronic Document Management System (EDMS) and attached to the feature(s) to which they relate in the GIS. This enables the user to select a collection system feature in the GIS and retrieve an electronic copy of the as-built drawings for it. In addition, GCDWR has implemented a computerized maintenance management system (CMMS) which can track work orders and CMOM related activities by asset. These CMOM activities include inspections, maintenance, rehabilitation, and emergency calls. The CMMS is integrated with the County's GIS.

The Department of Water Resources has collected survey grade GPS coordinates, inverts and rim elevations on the critical sewer structures in our collection system to improve the accuracy of our GIS and sewer model. It is also required by GCDWR for the as-built drawings of any significant sewer improvements, extensions, or repairs to be submitted with associated GIS data. This data is prepared in a format and to a level of detail matching the Department databases to allow direct import of this information and update of the base maps. However, all assets are field verified before the as-built drawings are scanned into the EDMS and uploaded to GIS. The data collection and compilation process is on-going and evolving to provide continuous improvement to the system. This advanced level of information management allows the Department to better coordinate inspection and maintenance activities and increases the effectiveness of planning and execution for system renewal.

4.4 Overflow Correction Prioritization:

Sanitary Sewer Overflows are currently tracked in a module within our CMMS program which houses information regarding the specific asset(s) involved, date, location, volume, and cause(s). Historic data predating the development of this module was migrated into the software during implementation to ensure the continuity of the data. The locations and causes of SSOs are analyzed regularly to determine trends. In addition, SSOs are tracked in the GIS to allow the Department to plot and analyze for trends and other potential correlating factors. Preventive maintenance efforts, such as cleaning, flow monitoring, acoustic surveys, and CCTV inspections are adjusted and concentrated in the geographic areas where the incidences of SSOs are greatest.

4.5 Routine Preventive Operations and Maintenance:

Gwinnett County recognizes that preventive maintenance is an essential key to preventing SSOs and maintaining adequate conveyance capacity for peak flows. Therefore, GCDWR has undertaken a number of preventive maintenance programs which are detailed below.

4.5.1 Inflow/Infiltration Control:

The Department has installed a system of flow meters that allow the OTS workgroup to monitor and evaluate flow depths both during normal operations and under the stresses imparted by storm events. The flow meters are set at locations that divide the collection system into sub-basins containing approximately 100,000 – 125,000 ft. of main. The OTS workgroup manages the contractor responsible for maintaining the meters and performing new installations or relocations when needed. The flow meters take readings on a 15-minute basis and upload this data remotely on a daily basis. The receiving system is set with alarms and protocols to alert OTS if a flow meter has not uploaded data within a predefined delay. The website hosting this data stores the information by both time and location so that historic data is available for specific monitoring locations throughout the collection system. If a flow meter is relocated to another basin, then the data remains associated with the location from which it was collected.

The Department has an inspection program targeting manholes located in flood-prone areas. After rain events which are considered heavy enough to cause localized flooding, OTS reviews the output from the flow meters and notifies the field operations group of any mains that appear to be excessively impacted by inflow. These manholes are then inspected to ensure that they are still undamaged, sealed, and have not shifted out of position. Specialized land/water vehicles have been purchased to access these flood-prone areas following rain events and perform the inspections in a timely manner.

4.5.2 Easement Clearing:

The Department typically has a permanent twenty- foot easement along its sewer lines. Easement clearing is performed to provide access to sanitary sewer lines for assessment and maintenance purposes, and reduce the potential for root intrusion into the sewer lines. Where sewers traverse undeveloped property, clearing of easements is typically accepted without complaint. However, opposition has been encountered from homeowners in some portions of the county, and occasionally from groups expressing concerns regarding easement clearing in environmentally sensitive areas. Accordingly, GCDWR has implemented a voluntary program wherein the property owner may take responsibility for clearing the easement on their premises using more individually acceptable methods such as hand-clearing. Such agreements require the owner to provide an adequate level of clearing to allow access to the sewers for inspection and maintenance; however, the majority of the easement clearing operations is performed by GCDWR through a contracted service.

4.5.3 Cleaning, Television Inspection, and Acoustic Assessment:

Hydraulic cleaning and television inspections of the pipes are performed: (1) in support of repairs or routine maintenance, (2) in areas where the heaviest concentrations of SSOs have occurred, (3) where maintenance issues are chronic or recurring, (4) in response to immediate flow problems, and (5) as part of a proactive assessment and maintenance program. Hydraulic cleaning is effective in removing material that becomes deposited in the sewer mains. This deposition typically occurs in lines with minimal slopes and in areas of high commercial activity. The Department employs both mechanical root removal methods to clear blockages and a chemical root control program to minimize the potential for recurring or future growth. The combination of physical root removal and chemical root control has been shown to be more effective in reducing the frequency and severity of root intrusions than the use of either method individually.

Closed Circuit Television (CCTV) inspections and acoustic assessments are aids in identifying lines with obstructions, installation defects, performance issues, corrosion problems, and monitoring levels of pipe deterioration associated with the aging process and normal wear. The Department's asset management program has determined the condition of its critical sewer components and is advancing the CCTV program to inspect less critical components while utilizing rapid acoustic assessment technology to identify pipes throughout the system that may be partially blocked or have artificially reduced capacities. The program calls for critical main lines to be assessed every ten years or more frequently if conditions warrant. On-going investigations and trend analyses are used to identify, delineate, and prioritize areas which may require attention on a more frequent basis. The reaches to be included in subsequent assessment efforts will be continually adjusted to address changing needs and priorities. In addition to in-house collections workgroup crews, GCDWR also funds an annual contract for cleaning and television inspection services.

4.5.4 Manhole Location and Adjustment:

The Department funds an annual contract for sanitary sewer manhole adjustment services to supplement the work performed by in-house crews. Proper maintenance of the manholes provides the GCDWR crews the necessary accessibility to properly assess the collection system and eliminates a major source of inflow and infiltration. These critical components of the sewer system are tracked in the asset management system with regard to current condition and inspection date. This inspection effort is on-going and continuous, when highly aggressive conditions are identified the OTS Workgroup does further evaluation for potential rehab or replacement. When repairs to a manhole are performed, the renewal method employed is documented, and the follow up condition assessment is input into the asset management system. This new condition then becomes the basis for the timing of the next scheduled inspection.

4.5.5 Grease Control:

The Department has implemented a fats, oils, and grease (FOG) program, through Section 106-162 of the County Ordinances. Grease interceptors are required upstream of the connection to the public sewer system for food service establishments (FSE) or any facility which generates liquid wastes containing grease in excessive amounts. The Department's FOG group inspects and monitors all grease traps within the County. If a deficiency is found during an inspection, the FSE is notified and is required to address the deficiency within a specified period of time. The site is then re-inspected, and enforcement is continued until compliance is achieved. The ordinance imposes a continuing responsibility on customers using grease interceptors to maintain, revamp, enlarge or otherwise modify their interceptors to achieve their intended purpose.

The Sewer Use Ordinance provides GCDWR with the right to enter the facility and inspect the grease trap for compliance. Failure to comply with provisions of the program places the customer in violation of the county code and may result in enforcement actions. Potential enforcement actions include notices, citations, penalties, and ultimately termination of water and sewer service.

Apartment complexes are not required to install grease management devices due to their residential classification. However, these developments may still be significant sources of grease due to the number and concentration of families contributing to the discharge from the

facility. When grease-related blockages occur and result in back-ups in the county sewer system, the areas upstream are identified and targeted for distribution of educational materials developed as door-hangers by the FOG group. The Department also has an extensive FOG education program including posters, fliers, videos, and presentations which are provided to schools or other community groups.

The presence of grease in the collection system normally becomes an operational concern when it attaches to the pipe walls, pipe defects, or intruding roots, and impedes flow. The Field Operations Division addresses these situations by hydro-jetting the pipe or applying a chemical solvent to remove the grease. It is anticipated that the aggressive cleaning, acoustic assessment, television inspection, and root control programs discussed above will continue to address and reduce the impacts of grease on the sewer system. In addition, the FOG workgroup reviews SSOs for FOG and rag related issues, identifies the areas that are the likely source, and targets those areas for public outreach and education.

4.6 Sewage Pump Stations:

The County currently operates many raw sewage pump stations of various sizes and configurations over a large service area. The majority of these stations are serving residential areas and they are either small above-ground wet-well mounted pump stations or submersible pump stations. The County-owned and operated pump stations have been divided into routes based on their locations. At least one mechanic is assigned to each route. The mechanic is responsible for performing routine periodic inspections on each pump station on the route and performing minor repairs as needed. Mechanical maintenance crews perform the heavier repairs that are beyond the capability of the route mechanic. In addition, GCDWR has contracted with qualified contractors to perform repairs on pump stations, generators, and overhead cranes.

It is GCDWR's goal to have a redundant power source at all pump stations in the event of a power failure. The Department standards require all new pump stations to have a secondary power generator installed. All of the existing stations except one have been equipped with on-site generators. This exception in our system is able to operate from a portable generator, and the County has two adequately-sized, portable generators available to ensure that one will be available at all times.

The Department recognized the need for an effective and responsive Supervisory Control and Data Acquisition (SCADA) system to monitor and control the existing sanitary sewer pumping stations as well as those that may be added in the future. SCADA and telemetry systems monitor the operation of remote pump stations, provide an alarm system to warn of pump station failure conditions, and control flows through pump stations. The advantages of an effective SCADA system include:

Reduced labor for monitoring pump stations

Better surveillance of station equipment

Instantaneous notification of alarms

Automatic gathering of operating data for management of flows and reporting

Remote control capability

4.7 Pump Station and Meter Station Monitoring

GCDWR currently uses two types of systems for pump station and metering station communications.

4.7.1 Supervisory Control and Data Acquisition (SCADA):

This system is used to monitor and control pump stations through “real time” communications via cellular communication. All of the pump station sites can be monitored and controlled by this system. With appropriate administrative rights, the pump station operator can view the system’s performance, access controls and alter their state from any computer that has internet access, or from specially configured wireless devices. This remote accessibility improves response times greatly by allowing the operator to begin investigating a potential problem immediately upon receiving an alarm instead of requiring a trip to the site.

The “Human Machine interface” (HMI), is the presentation layer of the Supervisory Control and Data Accusation (SCADA) system, which allows authorized personnel to monitor the status, control the operations, acknowledge the alarms and provide a countywide view of all connected pumpstations, water and wastewater reclamation facilities. Authorized staff member with two factor authentication also have the ability to access and control the equipment within individual system from any remote location via County provided cellular network. SCADA Systems and data are hosted at two separate redundant physical locations within Operational Technology (OT) and County Informational Technology (IT) networks for improved redundancy and high availability. The historical data is stored in multi-tiered historians from edge to enterprise and the information is used for multiple purpose such as generating reports, trending and query, pump runtime comparison, flow measurements, store alarms history and to share data to other platforms and dashboards.

Alarms from SCADA are received in Maintenance Customer Service which is staffed 24-hours a day. If alarms are not acknowledged within a specified amount of time, they are re-routed to a dedicated telephone at Maintenance Customer Service that only receives incoming calls from the remote telemetry units (RTU).

4.7.2 Cellemetry:

The “Cellemetry” control and monitoring system operates on a cellular base channel frequency. This technology is used as a back-up system for the primary telemetry units. In addition to monitoring the pump station for alarm conditions, this pump management system generates daily discrepancy reports to alert GCDWR’s crews to potential problems and disparities in the station’s performance.

4.8 Communications:

The County can contact the maintenance crews on a "live and immediate" basis using County-issued cell phones so they are not typically required to return to the office for instructions or advice. The Department leveraged the existing infrastructure when they expanded their radio-based system, by taking advantage of the six existing towers owned and operated by the County.

As communications technology changed, GCDWR improved its connectivity by including cell phones and mobile internet access to the system where appropriate and effective. Crew leaders are typically assigned a cell phone to ensure that communication with the crews is maintained. Further, mobile devices are provided to the crews leaders, allowing them to record data, receive work assignments, and access the County's GIS on a live basis while still on the job-site. This connectivity to the County's databases and work order system allows the crews to make more informed decisions, perform their work more effectively, and keep co-workers and management staff informed of on-going issues in the field.

The Department will continue to monitor and will occasionally test new communications technology to determine compatibility with the existing systems, reliability, and effectiveness. These new technologies may then be implemented into the County's communications network. A trial period is typically used with a limited deployment in these instances to ensure that the change is appropriate and meets GCDWR's needs. In this manner, GCDWR tries to protect the continuity of communications to the fullest extent while improving efficiency over time. Given the rapid advances in these technologies, it is possible that specific communications protocols could be different than those reflected in this document.

4.9 Remote Flow Meters:

The Department has a sewer-monitoring network comprised of stand-alone open-channel area, velocity flow meters and depth only meters at various locations throughout the collection system. The primary purposes of these flow meters are to monitor the performance of the system during normal operations, to provide flow data for analysis of capacity, and to evaluate the performance of the system under storm-related stresses. These meters are also associated to the network of County-owned and USGS rain gauges which are located throughout Gwinnett to provide data needed for I&I estimations and the evaluation of renewal effectiveness. The existing flow meters and rain gauges are connected into an automated, web-based, data collection system.

4.10 Training:

The Department provides its employees training opportunities through both in-house programs and programs provided by vendors and subject matter experts. All field personnel receive training from manufacturers and through peer, instruction on the use of equipment relevant to their tasks and refresher training is provided as needed and appropriate. Safety training or certification in areas such as confined space entry, trenching, work zone traffic control, and flagging are required of most field staff and are provided through either the County's Department of Financial Services – Risk Management Division, or recognized safety instructors, including the National Safety Council and the Georgia Institute of Technology.

A position-specific safety-training matrix has been developed and is reviewed by the County annually to ensure proper training is assigned for the staff. Training class attendance is tracked along with the required frequency of attendance to allow the staff to complete refresher training in compliance with their job requirements. County crews and staff are instructed to refrain from undertaking activities or using equipment for which they have not received the appropriate training.

The Field Operations Division has developed and implemented an employee skill development (ESD) program. The goal is to improve the recruitment, learning and growth, and retention of a competent, motivated and agile workforce, while retaining the institutional knowledge that could be lost due to future retirements. Training programs for work skill enhancement, supervisory development, and personnel management are available to GCDWR employees through GCDWR's training program and the County's Department of Human Resources.

5 DESIGN AND PERFORMANCE

5.1 Sewer and Pump Station Requirements and Standards:

All new collection facilities are inspected by GCDWR, utilizing either in-house personnel or consultants under contract. As addressed previously in this document, GCDWR has produced and maintains standards for the design and construction of new collection system pipelines and pump stations. These standards are applied to all projects including county installations and developer installations, thereby assuring acceptable levels of performance.

5.2 Development Inspection Procedures and Specifications:

Section106-98, Paragraph (a) provides that "All extensions of the sewer system shall be designed and built in accordance with current DWR standards. The standards shall be those stated in the latest edition of "Water Main and Sanitary Sewer Installation Regulations and Specifications ", which is available at DWR and at the Department of Planning and Development. No installation of pipe or other materials for sewer extensions shall be allowed until the required information is received and the design is approved by the county. Inspection and acceptance procedures shall be specified in these standards."

Standards for the design and construction of sanitary sewer pump stations and force mains are published and set forth in a standard document entitled "Gwinnett County Department of Water Resources – Developer Pump Station Standards". These documents are updated as appropriate by the County and distributed through the County website. The above referenced Gwinnett County sanitary sewer standards provide minimum acceptable criteria for the construction, testing, and installation of sewer lines, and are applicable to both new and rehabilitated public sewers.

5.2.1 Specification Provisions:

5.2.1.1 At no time will any sewer construction commence before approval of all plans, submittal of required documents, including necessary easements, issuance of permits, and a preconstruction conference with the County inspector.

5.2.1.2 Section 4.1.4- "The Pipe Contractor is required to be listed on the approved Utility Contractors List by GCDWR to install manholes, tie-in commercial properties or install 8" or larger pipe. No Contractor shall be allowed to commence installation until an application for inclusion to the Approved Utility Contractors List has been received and approved by GCDWR. Appropriate construction permit(s) must also have been issued by GCP&D. See Article 5.15 for penalties for working without the appropriate permits."

5.2.1.3 Section 4.2.1- "All sewer lines, manholes, and other appurtenances shall be installed according to approved plans and profiles. If a plan revision must occur, the redesigned area(s) must be submitted to GCP&D for approval prior to installation in accordance with Georgia Environmental Protection Division's Rules and Regulations for Water Quality Control, Chapter 391-3-6.02(1). "

5.2.1.4 Section 5.2.1- “The GCDWR Inspector will make periodic site visitations without advance notice to the Contractor. However, it is the responsibility of the Contractor to contact the Inspector during each phase of the installation for inspections and/or re-inspections.”

5.2.1.5 Section 5.7.1- “All sewers shall be tested for leakage using low pressure air testing, as specified herein.”

5.2.1.6 Section 5.8.1 “If excessive deflection is noted during GCDWR Final Inspection, deflection tests shall be performed by GCDWR.”

5.2.1.7 Section 5.9.7- “…Any defects discovered by GCDWR inspection of the CCTV recording must be corrected immediately in order to receive Final Inspection approval.”

5.2.1.8 Section 5.10- “On newly installed sewers NO infiltration or leaks will be allowed. Any infiltration must be eliminated prior to approval.”

5.2.1.9 Section 5.9.1- “Upon completion and approval of all listed inspections, the sanitary sewer project will be scheduled for a GCDWR Final Inspection.”

6 MONITORING, MEASURING, AND MODIFICATIONS

6.1 Metrics and Key Performance Indicators:

It is believed that the overall effectiveness of the Department's CMOM program can be demonstrated using key performance indicators (KPI) that will be monitored over time. The metrics and performance indicators may change over time based on observed condition and performance of the system. The current primary key performance indicators for GCDWR's CMOM Program include but are not limited to:

Sewer spills per 100 miles of sewer pipe

Collections O&M cost per 100 miles of sewer pipe

Percent of collections calls responded to within 24 hours

Collections O&M hours per 100 miles of sewer pipe

In addition to KPIs, the Department tracks other metrics used to track performance goals. Some of the primary metrics are:

Total SSOs per 100 miles of sewer pipe

Miles of sewer pipes inspected

Miles of sewer pipes cleaned

Miles of sewer pipes rehabilitated

Miles of sewer easement cleared

Number of sewer structures rehabilitated

6.2 Program Updates:

The Field Operations Division publishes a comprehensive statistical report that catalogs routine operations and maintenance activities. Included in this report are many CMOM-related elements that are used to monitor the progress of operations and maintenance activities such as SSOs, backups, emergency responses, repairs, and maintenance contract activity. Program elements will be formally updated as appropriate based on monitoring or performance evaluations.

6.3 Program Summary:

The Department views this annual summary report as a working document. There may be changes to the format or layout of the report between submittals that are intended to enhance clarity, document refinements or improvements to GCDWR's CMOM-related activities, or reflect changes that occur within DWR. However, the primary reporting mechanism contained in Appendix A of this report follows the format set forth by EPA and is not expected to change unless we are notified by EPD that they desire such to occur. This report will be updated at least annually, and more often as necessary to reflect significant changes. It will be submitted to EPD via electronically posting to the County website along with a notification to EPD that such posting has occurred. This process will provide easy and continuous access to this document by the public and Georgia EPD.

7 OVERFLOW EMERGENCY RESPONSE PLAN

It is the policy of GCDWR to comply with reporting requirements set forth in Chapter 391-3-6-.05 of EPD's Rules and Regulations for Water Quality Control. Maintenance Customer Service serves as the most common point for receiving information regarding potential sanitary SSOs in the collection system. Maintenance customer service is typically alerted to potential SSOs through telephone calls from customers, contractors, environmental groups, regulatory agencies, and other county agencies. Additionally, all sanitary sewer pump stations in the collection system are equipped with telemetry that sends an alarm to sewer pump stations and maintenance customer service in the event of a pump station failure or when the stored volume in the wet well reaches a specified action level. Maintenance customer service monitors the pump station telemetry system for such alarms and is staffed 24-hours per day, seven days a week. The Field Operations Division maintains field staff on duty from 7am to 4pm five days a week. A rotational on-call schedule of field personnel and supervisors ensures that adequate personnel are available to handle any emergency repairs after regular business hours and on holidays. Facilities Division also provides rotating technical crews including mechanical, electronic, and electrical repair personnel as part of their on-call emergency response crews.

In addition to the continuous SSO related activities and precautions set out above, Field Operations works in close cooperation with the Department's Water & Wastewater Program Support Division to protect the natural waterways. This program is referred to as the Emergency Stream Inspection Program (ESIP). When the County Laboratory Group detects an unexplained, elevated fecal count in a stream, Field Operations reviews the GIS to see if there is an adjacent or upstream sewer that could contribute to flows in the identified area. If so, a crew is sent to the potentially impacted area and begins a walk-through of the zone. This inspection is used to determine whether there has been an unidentified spill. If an SSO is found, the procedures for SSO-response are initiated.

7.1 Receipt of SSO Reports:

Potential sewer overflows are considered emergencies. Maintenance customer service serves 24-hours per day, seven days a week point of contact for the receipt of these reports whether from citizens, agencies, or through the telemetry systems. All sanitary sewer pump stations in the collection system are equipped with telemetry, and critical stations have backup telemetry systems. When conditions arise at a pump station that could result in an overflow (e.g. pump failure, power failure, high wet well level), the telemetry systems send an alarm to maintenance customer service. The maintenance customer service representative on duty then contacts the on-call coordinator for pump stations who sends an appropriate emergency response crew to the reported site. These crews are trained to diagnose the cause of the problem and begin appropriate corrective actions. If the crew determines that an overflow has occurred, they contact a field supervisor (coordinator) if they are not already on-site and immediately initiate actions to contain and stop the overflow. The coordinator meets with the crew at the site and proceeds with (1) estimating the amount of the overflow using the procedures identified in Appendix E, (2) investigating the receiving waterways for any potential impact and the associated need for cleanup, and (3) documenting information needed to report the event.

7.2 Response:

All maintenance customer service personnel, administrative support staff, supervisors, and field crews have two-way devices or a County supplied phone for constant communications. In addition, field crews are supplied with internet-ready devices in their

response vehicles so that they can log onto the County intranet to access e-mail, as-builts, GIS, and work order histories on any asset they are sent to repair. Once the coordinator confirms that the reported back-up meets the requirements set forth by EPD in section 391-3-6 of the Water Quality Control Act as a sewer spill requiring emergency action, the coordinator then relays all pertinent information to the Maintenance Customer Service representative on duty. The crew and coordinator remain on-site until the spill is stopped and clean up is complete. Target response times to arrive at the site are less than two hours during regular business hours, on evenings, weekends, and holidays.

7.3 Official Notification:

Once the coordinator confirms that the spill has been brought under control and clean up has been performed, the coordinator estimates the size of the spill and then relays all pertinent information to the Maintenance Customer Service representative on duty. Signs are posted at the spill site, where the spill entered state waters, public access areas downstream of the spill, and within reasonable distance downstream depending on the magnitude of the spill. Upon receiving the spill information, the Maintenance Customer Service representative then immediately notifies the EPD by e-mailing the EPD approved Notification of Spill form. If the Notification of Spill form indicates a minor spill, the Department's Public Information Officer then proceeds with notification of the local media (newspaper, radio, and T.V.) and the Health Department. If the Notification of Spill form indicates a major spill has occurred or there is a potential for a water quality violation, the GCDWR Environmental lab is also contacted to initiate stream sampling.

If the event occurs during non-business hours, the coordinator is responsible for collecting the initial set of samples and delivering them to the lab for testing. Additional notifications are associated with major spills beyond those that occur for minor spills. In these instances, the Maintenance Customer Service representative also proceeds with the direct notification of downstream municipalities, agencies, or affected entities (citizens, homeowner groups, etc.) with an intake within 20-miles of the spill. Emergency contact lists showing whom to contact in these cases are included in GCDWR's Department-wide Contingency Plan and are posted in the Maintenance Customer Service area. GCDWR also publishes a notice of the spill in the legal organ of the County within seven calendar days. As a final notification, GCDWR issues a written report to EPD within five days confirming the details of the event and providing any corrections to the preliminary report which was originally e-mailed.

7.4 Training:

Emergency response to a spill is the responsibility of the Field Operations Division. All maintenance customer service personnel, field supervisors, foremen, lead workers, and managers involved in emergency response efforts have been trained in the appropriate procedures and requirements. In addition, field supervisors, foremen and lead workers have been trained in the calculation of spill volumes. The coordinators overseeing the field crews are trained in the proper collection, documentation and transport of stream samples. New personnel receive on-the-job training regarding these procedures. If performance reviews of the response or reporting process show that the procedures are not being carried out as effectively as practical, refresher training is provided.

7.5 Emergency Operations:

All initial emergency response and most emergency repair work are carried out with in-house forces. As shown previously, GCDWR has adequate staff, vehicles, and equipment to effectively handle these duties. Annual contracts for the repair of sewer lines and force mains augment the in-house repair capabilities. Such contracts require that the contractor must provide emergency mobilization and repair operations when called on by GCDWR. Construction contractors can also be hired through an accelerated procurement process to perform emergency repairs.

For pump stations, GCDWR also has emergency and accelerated repair arrangements with its mechanical and equipment suppliers to augment its in-house repair capabilities. The Department also maintains annual contracts with qualified local contractors for electrical repair, motor repair, and generator repairs.

8 SYSTEM EVALUATION AND CAPACITY ASSURANCE

Assessment of the capacity and condition of the collection system and treatment facilities is a continuous process. The Department has a full-time staff of planners, engineers, and technicians who monitor the existing system and estimate potential growth in wastewater flows. In addition, GCDWR has an aggressive master planning program which maintains a current Master Plan. This plan documents projected future average and peak flows. It also outlines activities and improvements recommended to proactively provide a wastewater infrastructure which can accommodate those future flows in a timely and sustainable manner. The Department uses flow projections developed and applied to major drainage basins as part of these infrastructure planning efforts.

8.1 Hydraulic Modeling:

The Operations Technical Services group has an active on-going hydraulic modeling effort for the County sewer system. The best available data is used to analyze the system capacity and compare it to directly metered or model-based flows. Flow monitors within the system are used to constantly assess the capacity that is available within the system and to identify areas in need of I&I control. The County monitors proposed new development within the service areas and anticipates what effect the proposed development will have on the sewer infrastructure as an integral part of the planning and design review processes. If there is any question as to existing conditions, the Infrastructure Support division works with proposed developments to ensure that the necessary survey, as-built, and flow meter data are obtained to improve the hydraulic model accuracy prior to permitting new sewer connections.

8.2 Master Plan:

Gwinnett County has an active on-going Master Planning effort, which provides strategies and long-term capacity enhancements of the wastewater conveyance system along with priorities and dependencies for these projects. The sewer model described previously is integral to this long-term planning process, and is used to assess the capacity of the system with both existing and future peak flows. System improvements are delineated to handle any significant shortfalls in the collection system and to improve efficiency. The estimations of population growth trends developed by the Gwinnett County Department of Planning & Development, private consultants, and the Atlanta Regional Commission are considered to establish a reasonable basis for calculating the ultimate capacity requirements of the wastewater network. The long-range planning efforts set out in the plan are monitored and modified by GCDWR as time passes to ensure the recommendations provided are appropriate to the actual growth patterns realized in the county. The capacity of the treatment facilities and pump stations are also considered when developing recommendations for conveyance system improvements.

8.3 Capital Improvement Plan:

The Engineering and Technical Services Division maintains the long-range plan, including a 5-year Capital Improvement Plan (CIP), for system improvements. The long-range plan includes upgrades to existing lines, the installation of new lines, and the installation or decommissioning of pumping stations. This program is funded from available revenues, bonds, and other sources. The list of CIP projects include not only those originating from the Master Plan referenced above, but also water and wastewater treatment, water

distribution, and various other departmental projects. An example of a monthly collections CIP review is presented in Appendix F. As such, collection system improvement projects are compiled and prioritized against not only other collection projects but also projects that address other departmental needs.

The Gwinnett County Board of Commissioners allocates funding for operation, maintenance, and upgrade of the sanitary sewer system through an annual budget process. New projects are recommended for incorporation in the CIP as new planning, engineering and assessment information becomes available.

8.4 Rehabilitation Identification and Prioritization:

Sewer rehabilitation projects are generally identified through the condition assessment programs or through the planning/permitting process. These rehabilitation efforts range from a point repair to address a specific asset to lining projects which can address short lengths of mains. More complex rehabilitation needs that address multiple assets are typically compiled into projects and can address more widespread needs or defects that cannot be addressed by a limited repair. Identified projects are discussed with planning, engineering, and the financial staff to designate a priority and a funding source for the project. Rehabilitation projects are generally funded through the capital budget program.

Funding amounts for the rehabilitation and assessment programs are reviewed and adjusted on an annual basis.

9 PROGRAM AUDIT – INTERNAL

9.1 Program Monitoring:

The Department will monitor CMOM-related activities to determine if they are providing positive results for the collection system and identify those activities that might be adjusted to provide a higher level of benefit. The Department will also attempt to identify gaps in the CMOM program that could be addressed by altering an existing activity or adding new activities. It is intended that the GCDWR's collection system maintenance and operations will be flexible enough to allow for minor changes in response to changing conditions in the collections system. However, proposed revisions to our activities that would potentially modify or impact those conditions of our CMOM program dictated by our voluntary Consent Agreement will not be undertaken without prior approval of such proposed changes by EPD.

9.2 Report Preparation:

The Field Operations Division will prepare the annual report to relay applicable metrics and will use the example, Data Collection Form contained in Appendix A from the Guide for Evaluating Capacity, Management, Operation, and Maintenance (CMOM) programs at sanitary sewer collection systems, published by the United States Environmental Protection Agency Office of Enforcement and Compliance Assurance (2224A), EPA 305-B-05-002_dated January, 2005.

Appendix A – Data Collection Form

COLLECTION SYSTEM PERFORMANCE INDICATOR DATA COLLECTION FORM
Rev. December 2023

COLLECTION SYSTEM PERFORMANCE INDICATOR DATA COLLECTION FORM

I. General Information

A. Agency Name: **Gwinnett County Department of Water Resources**

B. Agency Address - Street: **684 Winder Hwy** City: **Lawrenceville** State: **GA** Zip: **30045**

C. Contact Person: **Charles Nezianya**

D. Telephone Voice: **(678) 376-6979** Fax: **(678) 376-6930**

E. Email: **charles.nezianya@GwinnettCounty.com**

F. Data provided for latest fiscal/calendar year: **2022/2023**

II. Collection System Description

A. Service Area: **437 Square miles**

B. Population Served: **975,353**

C. System Inventory

Miles of gravity sewer	Miles of force main	Number of maintenance access structures	Number of pump stations	Number of siphons	Number of air, vacuum, or air/vacuum relief valves
2,955	**271**	**85,076**	**208**	**0**	**655**

D. Number of Service Connections:

Residential: N/A Commercial: N/A Industrial: N/A Total: **193,038**

E. Lateral Responsibility (check one)

1. At main line connection only
2. **From main line to property line or easement/cleanout**
3. Beyond property line/cleanout
4. Other

F. System combined (storm and sanitary)? **No**

G. Average Annual Precipitation: **54.32** inches (Total for Year)

H. System Flow Characteristics (total for service area)

Peak Dry Weather Flow (MGD)	Peak Wet Weather Flow (MGD)	Average Daily Flow (MGD)
65.53	**114.82**	**60.69**

III. Special Conditions

A. Indicate local conditions that are accounted for during design, construction, operation, and maintenance of the collection system.

1. Precipitation: **Yes** If yes, provide brief explanation: Floodplain/low-land Manholes are sealed and bolted
2. Terrain: **Yes** If yes, provide brief explanation: Easements are cleared for inspections and response
3. Soils: **Yes** If yes, provide brief explanation: Excavation safety considers local soil types
4. Temperature: **Yes** If yes, provide brief explanation: PPE and safety equipment is required
5. Groundwater: **Yes** If yes, provide brief explanation: Pumping during repairs, and infiltration limitations
6. Geology: **Yes** If yes, provide brief explanation: Excavation and backfills require soils consideration
7. Other:

B. Is corrosion a significant problem? **Yes**

1. Is there a corrosion control program in place? **Yes**

C. Is odor a significant problem? **Yes**

1. Is there an odor control program in place? **Yes**

D. Is grease a significant problem? **Yes**

1. Is there a grease control program in place? **Yes**

E. Are roots a significant problem? **Yes**

1. Is there a root control program in place? **Yes**

These maintenance issues are not typically considered as significant problems internally because they are primary considerations in the preventive maintenance programs. They are identified as above to indicate this impact to our operations.

IV. Age Distribution of Collection System

Age	Gravity Sewer, miles	Force Mains, miles	Number of Pump Stations
0 - 25 years	**1413.31**	**214.74**	**137**
26 - 50 years	**1493.80**	**56.41**	**70**
51 - 75 years	**47.55**	**0**	**1**
> 76 years	**0**	**0**	**0**
Unknown	**0**	**0**	**0**

V. Size Distribution of Collection System

Diameter in inches	Gravity Sewer, miles	Force Mains, miles
8 inches or less	**2618.33**	**119.61**
9 - 18 inches	**190.59**	**50.43**
19 - 36 inches	**102.59**	**84.05**
> 36	**43.15**	**17.06**
Unkn	**0**	**0**

VI. Distribution of Gravity Sewer By Material

A.	Vitrified Clay Pipe (VCP)	**361.20**	**Miles**
B.	Reinforced Concrete Pipe (RCP)	**85.70**	**Miles**
C.	Unreinforced Concrete Pipe (CP)	**5.87**	**Miles**
D.	Plastic (all types)	**1807.92**	**Miles**
E.	Brick	**0.0**	**Miles**
F.	Other- CIP	**4.56**	**Miles**
G.	Other- DIP	**681.28**	**Miles**
H.	**Other – Steel**	**0.33**	**Miles**
I.	Other- Unknown	**6.72**	**Miles**
J.	Fiberglass (FRP)	**1.08**	**Miles**

VII. Distribution of Force Mains By Material

A.	Reinforced Concrete Pipe (RCP)	**0**	**Miles**
B.	Prestressed Concrete Cylinder Pipe (PCCP)	**0**	**Miles**
C.	Asbestos Cement Pipe (ACP)	**0**	**Miles**
D.	Polyvinyl Chloride (PVC)	**18.85**	**Miles**
E.	Steel	**0**	**Miles**
F.	Ductile Iron	**249.32**	**Miles**
G.	Cast Iron	**0.75**	**Miles**
H.	Techite (RPMP)	**0**	**Miles**
I.	High Density Polyethylene (HDPE)	**2.23**	**Miles**
J.	Fiberglass Reinforced Plastic (FRP)	**0**	**Miles**
K.	Other (Unk)	**0**	**Miles**

VIII. Preventive Maintenance of System

A. Physical Inspection of Collection System, Preventive Maintenance

Inspection Activity	Total Annual Labor Hours Expended for This Activity	Total Completed (Miles of Pipe or Manholes Inspected	Crew Size (s)
CCTV	**NA**	**265.65**	**(4) 2 PERSON and CONTRACT**
Visual Manhole Inspection, Surface Only	**NA**	**NA**	**2 PERSON**
Visual Manhole Inspection, Remove Cover	**NA**	**13,599**	**(2) 2 PERSON**
Visual Gravity Line Inspection, Surface Only	**NA**	**189.1**	**2 PERSON**
Visual Force Main Inspection, Surface Only	**NA**	**NA**	**2 PERSON**
Other - Ultrasonic	**CONTRACT**	**CONTRACT**	**CONTRACT**
Acoustic Inspections	**NA**	**6.41**	**(2) 2 Person**

B. Mechanical and Hydraulic Cleaning, Preventive Maintenance

Cleaning Activity	Total Annual Labor Hours Expended for This	Total Annual Labor Hours Expended for Scheduled	Total Miles Cleaned Annually	Crew Size (s) Four Trucks Available	Range of Pipe Diameters Cleaned
Hydraulic Jet	**6,123.72**	**4,475.72**	**317.71**	**(4) 2 PERSON and CONTRACT**	**4” – 16”**
Bails, Kites, Scooters	**DNA**	**DNA**	**DNA**	**DNA**	**DNA**
Combination Machines	**DNA**	**DNA**	**DNA**	**DNA**	**DNA**
Rod Machines	**DNA**	**DNA**	**DNA**	**DNA**	**DNA**
Hand Rodding	**DNA**	**DNA**	**DNA**	**DNA**	**DNA**
Bucket Machines	**DNA**	**DNA**	**DNA**	**DNA**	**DNA**
Chemical Root Control	**CONTRACT**	**CONTRACT**	**83.63**	**CONTRACT**	**4” – 16”**

Chemical or Biological Grease Control	**DNA**	**DNA**	**DNA**	**DNA**	**DNA**

IX. Dry Weather Stoppages

A.	Number of stoppages backups, overflows, and spills:	**253**
B.	Average time to clear spills:	**1.69 hours**
C.	Number of stoppages resulting in sanitary sewer overflows:	**132**
D.	Total quantity of spills (gallons):	**189,072**
E.	Is there an established procedure for problem diagnosis?	**Yes**
F.	Are future preventive measures initiated based on diagnosis?	**Yes**
G.	What equipment is available for emergency response?	**Jet truck, Vac-con, tractors, pipe repair equipment**

X. Repairs and Rehabilitation, Proactive

A.	Number of annual spot repairs identified	**220**
B.	Number of annual spot repairs completed	**220**
C.	Percent of spot repairs contracted	**100 %**
D.	Number of manholes identified for rehabilitation	**623**
E.	Number of manholes rehabilitated annually	**623**
F.	Percent of manhole repairs contracted	**100%**
G.	Feet of main line needing rehabilitation	**195**
H.	Feet of main line rehabilitated (lined or burst)	**195**
I.	Percent of main line rehabilitation contracted	**33.33%**
J.	No. of manholes scheduled for rehab by Capital Improvement Program	**623**
K.	Ft of main scheduled for rehab under Capital Improvement Program	**38,739.57**

XI. Repairs and Rehabilitation, Reactive

A.	Number of annual line features	**NA**
B.	Number of line repairs (MH and Pipe)	**117**

XII. Pump Stations

A.	Number of pump stations inspected:	**208**
B.	Frequency of inspection:	**Weekly**
C.	Number of inspection crews:	**14**
D.	Crew size:	**1**
E.	Number of pump stations with pump capacity redundancy	**208**
F.	Number of pump stations with backup power sources	**207**
G.	Number of pump stations with dry weather capacity limitations	**0**
H.	Number of pump stations with wet weather capacity limitations	**2**
I.	Number of pump stations calibrated annually	**208**
J.	Number of pump stations with permanent flowmeters	**44**
K.	Number of pump stations with remote status monitoring	**208**
L.	Number of pump stations with running time meters	**208**
M.	Number of mech maint staff assigned to mechanical maintenance	**28**
N.	Number of elect maint staff assigned to electrical maintenance	**3**
O.	Total labor hours scheduled annually for elect and mech PM tasks	**55,989**
P.	Total labor hours expended annually for elect and mech PM tasks	**25,504**

XIII. Pump Station Failures, Dry Weather

A.	Number of failures resulting in overflows/bypass or backup, annually	**1**
B.	Total quantity of overflow/bypass (gallons)	**107**
C.	Average time to restore operational capability	**2 hrs**
D.	Total labor hours expended for electrical and mechanical corrective maintenance	**13,648**
E.	Is failure mode and effect diagnosed?	**Yes**
F.	Are future preventive measures initiated based on diagnosis?	**Yes**

What equipment is available for emergency response?

Pump truck, crane service trucks, boom truck, portable generators, spare pumps, spare motors, bypass pumps

XIV. Force Mains

A.	Force mains inspected annually	**13.75 miles**
B.	Force mains monitored annually **(pressure profile, capacity)**	**271 miles**
C.	Number of force main failures annually	**0**
D.	Cause(s) of force main failures	**NA**

XV. Air Relief/Vacuum Valves

A.	What is frequency of valve inspections?	**annual**
B.	What is frequency of PM (backflushing, etc)?	**annual**
C.	Number of annual valve failures	**4**
D.	Cause(s) of valve failures	**Parts Failure**

XVI. System Operation and Maintenance Efficiency

A.	Total full time or full time equivalent staff assigned to O & M (excluding administration staff but including line managers and Supervisors)	**172**
B.	Total estimated labor hours actually expended for active O & M tasks (this is the total above less hours for sick, vacation, holidays, training, breaks, etc., not directly related to performing O & M tasks)	**67,986.17**

XVII. Level of Service

A.	Average annual rate for residential users:	**$9.53/1000 gal**
B.	Rate based on:	**Water Consumption**
C.	Number of complaints annually:	**1,062**
D.	Number of complaints that are agency responsibility:	**407**
E.	Number of public health or other warnings issued annually:	**14**
F.	Number of claims for damages due to backups annually:	**25**
G.	Total cost of claims settled annually:	**$169,489.21**

XVIII. Financial

A.	Total annual revenue received from wastewater:	**$184,907,574**
	1. % of revenue for long-term debt	**20.1%**
	2. % of revenue for treatment and disposal	**51.9%**
	3. % of revenue for collection and conveyance	**28.0%**
B.	Current value of collection system assets (pipe / PS)	
C.	Annual O & M expenditure	**$83,471,471**
D.	Annual CIP expenditure for repair, replacement, or rehabilitation	**$50,858,362**
E.	Annual O & M training budget	**$709,499**
F.	Total number of O & M personnel (positions- including admin)	**180**
G.	Number of personnel with collection system certification	**56**
H.	Number of personnel qualified for collection system certification	**56**

	I.	Amount of O & M budget allocated for contracted services	**$25,963,205**
	J.	Hydroflush cost per foot	**$1.06**
	K.	Rodding cost per foot	**DNA**
	L.	Bucketing cost per foot	**DNA**
	M.	CCTV cost per foot	**$1.03**
	N.	Spot repairs, cost each	**$8,667**
XIX.	**Safety**		
	A.	Total labor hours assigned to O & M	**67,986.17**
	B.	Number of lost time injuries	**4**
	C.	Total lost time days	**103**
	D.	Total cost of lost time injuries	**$42,260**
XX.	**Regulatory**		
	A.	Total number of violations issued by Gwinnett County annually	**71**
	B.	Total cost of fines paid annually	**$3,000**
	C.	What is minimum reportable quantity in gallons?	**No minimum**
	D.	What is time reporting requirement?	**Immediate**
	E.	Number of annual WWTP upsets due to wet weather flow	**0**
XXI.	**General**		
	A.	Has SSES been performed on system?	**Yes**
	B.	Total O & M positions currently budgeted (47 Pump stations positions)	**180**
	C.	Total O & M positions currently filled (44 Pump stations filled positions)	**166**
	D.	Is computerized maintenance management system used for O & M?	**Yes**
	E.	Is GIS system used for O & M managing?	**Yes**
XXII.	**Procedures or Other Documentation Available**		
	A.	Overflow, bypass and containment	**Yes**
	B.	Problem evaluation and solution	**Yes**
	C.	Cleanup procedure	**Yes**
	D.	Failure mode and effect procedure	**Yes**
	E.	O & M budget process	**Yes**
	F.	O & M budget with line tem detail	**Yes**
	G.	Long-range CIP planning for system expansion, rehab,	
	H.	and replacement	**Yes**
	I.	Is there a written procedure for cleanup to mitigate overflow effects?	**Yes**
	J.	Is there a written procedure for containing overflows and bypasses?	**Yes**
	K.	Is there an established procedure for containing overflows and bypasses?	**Yes**
	L.	Is there an established procedure for problem evaluation and solution?	**Yes**
	M.	Is there an established procedure for cleanup to mitigate effect of overflow?	**Yes**
	N.	Is there a grease control program?	**Yes**
	O.	Is there a pretreatment program?	**Yes**
	P.	Is there a private source I/I reduction program?	**Yes**
	Q.	Do you have chronic O & M problems that are designed	

into your system? **No**
If yes, provide brief description:

R. Do you have chronic O & M problems that are constructed into your system? **Yes**
If yes, provide brief description:
Pipes requiring frequent maintenance have been identified and scheduled to avoid back-ups.

S. How would you rate your construction inspection program?
Very effective Needs improvement Poor

XXIII. Definitions/Clarifications

A. Maintenance access structures, most commonly manholes, in your system that are incorporated into your O & M program.

B. Pump capacity redundancy is the ability to maintain pumping at design capacity with the largest pump out of service.

C. Remote status monitoring is any remote monitoring system such as alarm telemetry or SCADA that provides remote pump station status information.

D. You will notice that in the section on stoppages and pump station failures, we are asking for dry weather incidents only. Dry weather system performance is a good indicator or effectiveness of O& M program. If you have wet weather information that you wish to provide also, please do.

E. Under the Special Conditions sections we are identifying conditions that are present in your system that require consideration during design, construction, and O & M of your system.

F. Any of the questions dealing with labor hours are designed to determine total labor hours irrespective of crew size or crews that are only assigned to cleaning, for example, less than full time.

G. Our goal is to obtain data that can be or are standardized and that are accurate. We also realize that some data may not be available; however, data can be accurately estimated. If you estimate data please follow with an (E).

H. If data is not available please indicate “NA.” If data does not apply to your system, please indicate by “DNA.”

I. Failure mode and effect refers to any established procedure you have to diagnose system failures to determine the cause and effect of the failure. This can apply to crews clearing stoppages or to pump station failures.

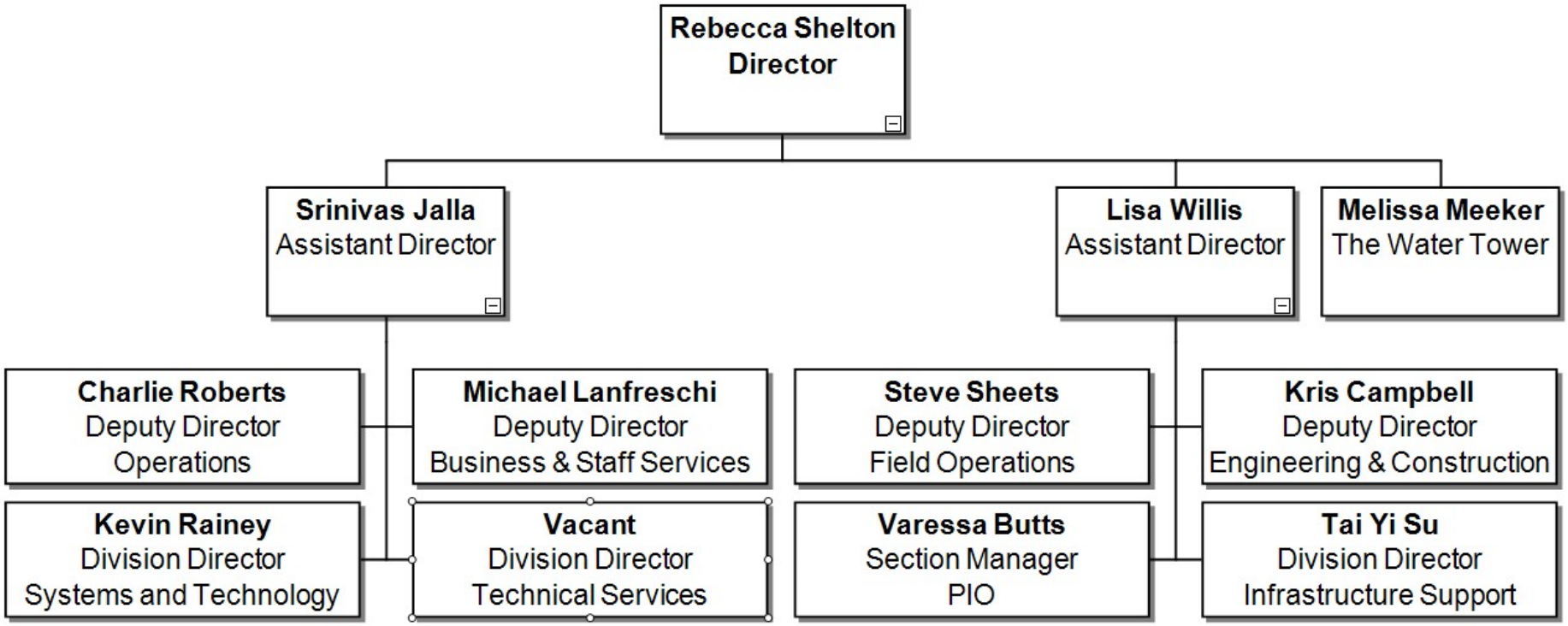
J. Pump station inspection (XII) means scheduled inspection by operators to verify station operation and perform PM. It excludes electrical or mechanical craft maintenance.

K. Stoppage in section IX refers only to stoppages other than pump stations. Pump stations are covered in Section XIII. Backup in this case refers to a basement or other structure backup as opposed to main line sewer backup.

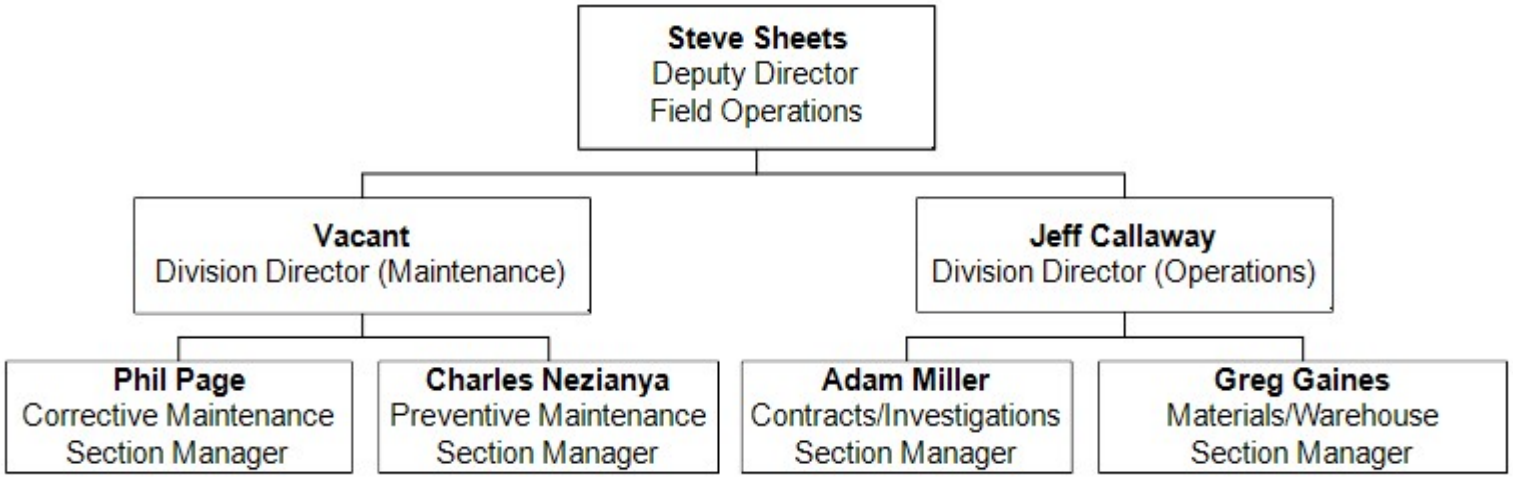
XXIV. Additional Comments

A. XIV.B. Force mains are monitored through the pump station alarms and telemetry systems of the associated pump stations.

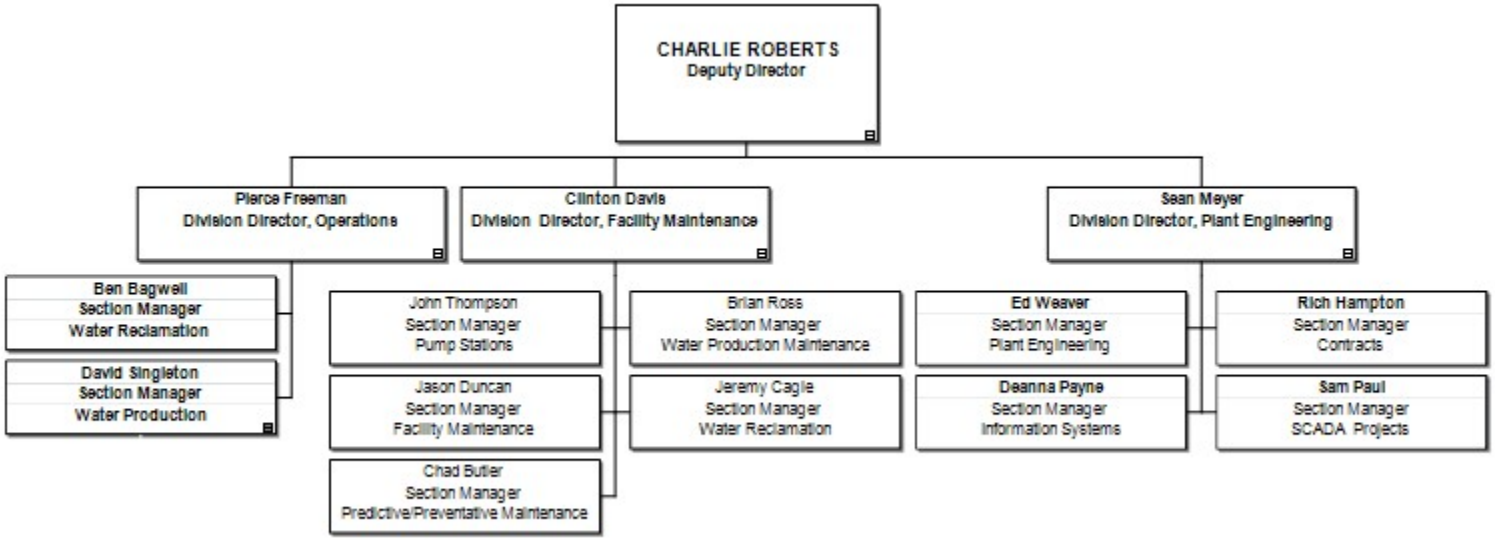
Appendix B – Director's Office Organization Chart



Field Operations Senior Managers Organization Chart



Facility Operations Senior Managers Organization Chart



Appendix C – Vehicles and Equipment

Table 1 - Appendix C - Active Vehicles and Equipment

Equip #	Description	Cost Center
11152	2009 BOBCAT E25	19040005
130023	2008 JLG INDUSTRIES E400AJPN	19040004
173561	2007 JLG INDUSTRIES 2030ES	19040004
175305	2018 K & K 83X18E27K	19080003
179896	2007 CHEVROLET G-VAN	19090003
181	2010 FREIGHTLINER M2106	19080007
1992	2019 BROUWER BTR30	19080003
2003414	2010 FREIGHTLINER M2106	19080002
2003415	2010 FREIGHTLINER M2106	19080002
2003416	2010 FREIGHTLINER M2106	19110001
2003421	2010 FREIGHTLINER M2106	19080003
2003425	2010 FREIGHTLINER M2106	19080007
2003426	2010 FREIGHTLINER M2106	19080002
2003428	2010 FREIGHTLINER M2106	19080003
2003429	2010 FREIGHTLINER M2106	19110001
2003598	2010 CHEVROLET IMPALA	19020009
2003599	2010 CHEVROLET IMPALA	19060002
2003600	2010 CHEVROLET IMPALA	19060002
2003602	2010 CHEVROLET IMPALA	19060002
2003665	2011 DODGE RAM 1500	19090003

2005875	2013 GENIE Z-40/23NRJ	19090006
2005879	2012 POLARIS GEM E6	19090007
2005880	2011 POLARIS RANGER	19090007
2005881	2011 POLARIS RANGER	19090006
2005915	2014 FREIGHTLINER 114SD	19110001
2005916	2014 FREIGHTLINER 114SD	19080003
2006231	2016 FORD FUSION	19080008
2006274	2015 FORD TRANSIT	19040006
2006275	2015 FORD TRANSIT	19080007
2006276	2015 FORD TRANSIT	19080007
2006277	2015 FORD TRANSIT	19040005
2006278	2015 FORD TRANSIT	19090007
2006279	2015 FORD TRANSIT	19080007
2006283	2015 RAM 1500	19040005
2006284	2015 RAM 1500	19060002
2006285	2015 RAM 1500	19080007
2006286	2015 RAM 1500	19090003
2006289	2015 CHEVROLET SILVERADO	19060002
2006290	2015 CHEVROLET SILVERADO	19080003
2006291	2015 CHEVROLET SILVERADO	19080001
2006292	2015 CHEVROLET SILVERADO	19110001
2006293	2015 CHEVROLET SILVERADO	19090007
2006302	2016 RAM 1500	19060002
2006303	2016 RAM 1500	19080008
2006304	2016 RAM 1500	19080002
2006306	2016 FORD TRANSIT	19080007
2006307	2016 FORD TRANSIT	19090015

2006308	2016 FORD TRANSIT	19040005
2006309	2016 FORD TRANSIT	19090007
2006310	2016 RAM 1500	19080002
2006317	2016 RAM 1500	19090006
2006500	2016 FORD FUSION	19100002
2006501	2016 FORD FUSION	19060002
2006548	2016 FREIGHTLINER M2106	19080002
2006573	2015 FORD TRANSIT	19080003
2006631	2016 FREIGHTLINER M2106	19080007
2006642	2016 CHEVROLET SILVERADO	19080003
2006643	2016 CHEVROLET SILVERADO	19080003
2006644	2016 CHEVROLET SILVERADO	19080003
2006645	2016 CHEVROLET SILVERADO	19080003
2006646	2016 CHEVROLET SILVERADO	19080003
2006647	2016 CHEVROLET SILVERADO	19090007
2006648	2016 CHEVROLET SILVERADO	19080008
2006649	2016 CHEVROLET SILVERADO	19080007
2006650	2016 CHEVROLET SILVERADO	19080007
2006651	2016 CHEVROLET SILVERADO	19080007
2006652	2016 CHEVROLET SILVERADO	19110001
2006653	2016 CHEVROLET SILVERADO	19080003
2006654	2016 CHEVROLET SILVERADO	19060002
2006655	2016 CHEVROLET SILVERADO	19090015
2006656	2016 CHEVROLET SILVERADO	19090007
2006657	2016 CHEVROLET SILVERADO	19090015
2006658	2016 CHEVROLET SILVERADO	19080003
2006659	2016 CHEVROLET SILVERADO	19110001

2006660	2016 CHEVROLET SILVERADO	19080002
2006661	2016 CHEVROLET SILVERADO	19100003
2006662	2016 CHEVROLET SILVERADO	19090015
2006663	2016 CHEVROLET SILVERADO	19040005
2006664	2016 CHEVROLET SILVERADO	19090007
2006665	2016 CHEVROLET SILVERADO	19030003
2006666	2016 CHEVROLET SILVERADO	19060002
2006667	2016 CHEVROLET SILVERADO	19030003
2006668	2016 CHEVROLET SILVERADO	19080003
2006669	2016 CHEVROLET SILVERADO	19080002
2006670	2016 CHEVROLET SILVERADO	19080003
2006671	2016 CHEVROLET SILVERADO	19080003
2006672	2016 CHEVROLET SILVERADO	19080003
2006673	2016 CHEVROLET COLORADO	19030003
2006674	2016 CHEVROLET COLORADO	19080003
2006675	2016 RAM 5500	19080007
2006676	2016 RAM 5500	19080007
2006704	2016 FORD EXPLORER	19010001
2006709	2016 CHEVROLET COLORADO	19030003
2006956	2016 DODGE RAM 3500	19080007
2006957	2016 DODGE RAM 3500	19040005
2006958	2016 DODGE RAM 3500	19080007
2006959	2016 DODGE RAM 3500	19080007
2006960	2016 DODGE RAM 3500	19080007
2006961	2016 DODGE RAM 3500	19080003
2006963	2016 CHEVROLET SILVERADO	19100003
2006964	2016 CHEVROLET SILVERADO	19100003

2006965	2016 CHEVROLET SILVERADO	19030005
2006966	2016 CHEVROLET SILVERADO	19040004
2006967	2016 CHEVROLET SILVERADO	19080003
2006974	2016 POLARIS RANGER	19080002
2006977	2016 CHEVROLET SILVERADO	19060002
2006979	2016 FORD TRANSIT	19030005
2006980	2016 FORD TRANSIT	19030003
2006981	2016 CHEVROLET SILVERADO	19080001
2006982	2016 CHEVROLET SILVERADO	19080007
2006995	2016 RAM 5500	19080007
2006997	2016 RAM 5500	19080007
2006998	2016 RAM 5500	19080007
2006999	2016 RAM 5500	19080007
2007000	2016 RAM 5500	19080003
2007001	2016 RAM 5500	19090007
2007005	2016 FREIGHTLINER M2106	19080003
2007006	2016 FREIGHTLINER M2106	19080003
2007010	2016 RAM 5500	19090007
2007011	2016 RAM 5500	19080007
2007041	2017 RAM 3500	19090007
2007043	2017 FREIGHTLINER 114SD	19080002
2007044	2017 FREIGHTLINER 108SD	19080002
2007045	2017 FREIGHTLINER M2106	19080007
2007050	2016 FREIGHTLINER M2106	19080003
2007078	2017 FORD TRANSIT	19080007
2007080	2017 FREIGHTLINER M2106	19090003
2007081	2017 RAM 5500	19090007

2007085	2017 RAM 5500	19090003
2007086	2017 FORD TAURUS	19090015
2007087	2017 FORD TAURUS	19090015
2007088	2017 RAM 4500	19080001
2007093	2017 RAM 5500	19090006
2007094	2017 FORD TAURUS	19090015
2007095	2017 FREIGHTLINER M2106	19080003
2007096	2017 FREIGHTLINER M2106	19080003
2007097	2017 FREIGHTLINER M2106	19110001
2007098	2017 FREIGHTLINER M2106	19110001
2007099	2017 CHEVROLET SILVERADO	19030003
2007100	2017 CHEVROLET SILVERADO	19090015
2007101	2017 CHEVROLET SILVERADO	19090015
2007102	2017 CHEVROLET SILVERADO	19060002
2007103	2017 CHEVROLET SILVERADO	19060002
2007104	2017 CHEVROLET SILVERADO	19060002
2007105	2017 CHEVROLET SILVERADO	19060002
2007106	2017 CHEVROLET SILVERADO	19100003
2007107	2017 CHEVROLET SILVERADO	19110001
2007108	2017 CHEVROLET SILVERADO	19080002
2007109	2017 CHEVROLET SILVERADO	19090007
2007110	2017 CHEVROLET SILVERADO	19090003
2007111	2017 CHEVROLET SILVERADO	19080002
2007112	2017 CHEVROLET SILVERADO	19080008
2007113	2017 CHEVROLET SILVERADO	19110001
2007162	2017 FREIGHTLINER M2106	19110001
2007163	2017 RAM 5500	19080002

2007164	2017 FREIGHTLINER M2106	19110001
2007176	2017 FORD TRANSIT	19080007
2007207	2017 RAM 5500	19080003
2007216	2018 FORD TRANSIT	19010004
2007383	2018 CHEVROLET MALIBU	19020002
2007384	2018 CHEVROLET MALIBU	19080008
2007414	2018 CHEVROLET MALIBU	19090015
2007418	2018 RAM 1500	19090015
2007419	2018 RAM 1500	19090015
2007420	2018 RAM 1500	19090015
2007421	2018 RAM 1500	19080002
2007422	2018 RAM 1500	19100002
2007423	2018 RAM 1500	19080008
2007424	2018 RAM 1500	19080002
2007425	2018 RAM 1500	19060002
2007434	2018 RAM 1500	19080002
2007435	2018 RAM 1500	19030003
2007436	2018 RAM 1500	19100002
2007437	2018 RAM 1500	19060004
2007438	2018 RAM 1500	19100003
2007439	2018 RAM 1500	19060002
2007440	2018 RAM 1500	19060002
2007450	2018 RAM 1500	19060002
2007451	2018 RAM 1500	19080003
2007452	2018 RAM 2500	19080002
2007455	2018 FORD TRANSIT	19080007
2007456	2018 FORD TRANSIT	19080007

2007457	2018 FORD TRANSIT	19080007
2007458	2018 FORD TRANSIT	19090016
2007464	2019 FORD TRANSIT	19080008
2007490	2018 RAM 5500	19090015
2007894	2019 FORD TRANSIT	19090007
2007905	2019 RAM 5500	19080003
2007919	2020 FREIGHTLINER M2106	19080002
2007920	2020 FREIGHTLINER M2106	19080002
2007921	2020 FREIGHTLINER M2106	19080002
2007930	2020 CHEVROLET COLORADO	19040004
2007931	2020 CHEVROLET COLORADO	19040004
2007932	2020 FORD FUSION	19010004
2007933	2020 FORD FUSION	19060002
2007934	2020 FORD FUSION	19100003
2007935	2020 FORD FUSION	19090015
2007936	2020 FORD FUSION	19060002
2007971	2020 CHEVROLET COLORADO	19090007
2007972	2020 CHEVROLET COLORADO	19080008
2007973	2020 CHEVROLET COLORADO	19090016
2007974	2020 CHEVROLET COLORADO	19030003
2007985	2019 RAM 1500	19090015
2007991	2019 RAM 1500	19090006
2007993	2019 RAM 5500	19090015
2007998	2020 FREIGHTLINER M2106	19080003
2007999	2020 FREIGHTLINER M2106	19080003
2008004	2019 RAM 1500	19060004
2008005	2019 RAM 1500	19060004

2008006	2019 RAM 1500	19080002
2008007	2019 RAM 1500	19080002
2008008	2019 RAM 1500	19080003
2008018	2019 RAM 2500	19020009
2008019	2019 RAM 1500	19080003
2008020	2019 RAM 1500	19080008
2008024	2019 RAM 1500	19080007
2008032	2019 RAM 1500	19090006
2008039	2019 RAM 3500	19080003
2008040	2019 RAM 3500	19080003
2008041	2020 FREIGHTLINER M2106	19080003
2008045	2020 FORD TRANSIT	19040005
2008046	2020 FORD TRANSIT	19090007
2008047	2020 FORD TRANSIT	19040004
2008048	2020 FORD TRANSIT	19090003
2008049	2020 FORD TRANSIT	19090015
2008050	2020 FORD TRANSIT	19040005
2008052	2019 FORD E450	19080008
2008053	2019 RAM 3500	19080003
2008054	2019 RAM 3500	19080003
2008055	2020 FREIGHTLINER M2106	19090015
2008059	2019 RAM 3500	19040004
2008060	2019 RAM 3500	19080003
2008061	2019 RAM 3500	19080003
2008062	2019 RAM 3500	19080003
2008063	2019 FORD F550	19080007
2008064	2020 FORD F550	19110001

2008065	2020 FORD F550	19110001
2008066	2020 FORD F550	19110001
2008070	2019 RAM 5500	19040004
2008071	2019 RAM 5500	19040006
2008073	2020 CHEVROLET SILVERADO	19080002
2008074	2020 CHEVROLET SILVERADO	19080002
2008076	2021 FREIGHTLINER M2106	19080003
2008090	2021 FREIGHTLINER M2106	19080002
2008092	2021 FREIGHTLINER 108SD	19090007
2008093	2020 CHEVROLET SILVERADO	19060002
2008094	2020 CHEVROLET SILVERADO	19080008
2008099	2019 RAM 5500	19080007
2008101	2019 RAM 5500	19080007
2008122	2021 CHEVROLET MALIBU	19060002
2008132	2020 CHEVROLET SILVERADO	19020009
2008133	2020 CHEVROLET SILVERADO	19060002
2008142	2020 FORD F550	19080002
2008143	2021 FREIGHTLINER 114SD	19110001
2008144	2021 FREIGHTLINER 114SD	19110001
2008153	2021 FREIGHTLINER M2106	19040006
2008157	2021 CHEVROLET SILVERADO	19060002
2008158	2021 CHEVROLET SILVERADO	19060002
2008185	2020 FORD TRANSIT	19090007
2008188	2020 FORD TRANSIT	19090007
2008191	2020 FORD TRANSIT	19080001
2008227	2020 CHEVROLET 5500HD	19080007
2008228	2020 CHEVROLET 5500HD	19040005

2008279	2021 DODGE RAM 5500	19110001
2008280	2021 DODGE RAM	19080003
2008284	2021 FREIGHTLINER M2106	19080003
2008286	2021 CHEVROLET SILVERADO	19060002
2008295	2021 FORD F550	19080002
2008352	2022 CHEVROLET MALIBU	19060002
2008358	2022 CHEVROLET MALIBU	19100001
2008364	2022 CHEVROLET MALIBU	19020001
2008394	2021 FORD RANGER	19090006
2008404	2022 FORD F150	19090015
2008405	2022 FORD F150	19060002
2008406	2022 FORD F150	19060002
2008407	2022 FORD F150	19080008
2008408	2022 FORD F150	19080008
2008409	2022 FORD F150	19080008
2008420	2022 FORD F150	19060002
2008449	2023 CHEVROLET SILVERADO	19090003
2008450	2023 CHEVROLET MALIBU	19060002
2008453	2023 CHEVROLET SILVERADO	19080003
2008454	2023 CHEVROLET SILVERADO	19090016
2008461	2023 CHEVROLET SILVERADO	19090016
2008462	2023 CHEVROLET MALIBU	19090015
2008466	2023 CHEVROLET SILVERADO	19110001
2008467	2023 CHEVROLET SILVERADO	19100003
2008469	2022 CHEVROLET EXPRESS	19040005
2008470	2023 CHEVROLET MALIBU	19090015
2008499	2023 CHEVROLET MALIBU	19090015

2008513	2023 CHEVROLET SILVERADO	19080008
2008558	2023 CHEVROLET SILVERADO	19060002
2008559	2023 CHEVROLET SILVERADO	19080008
2008568	2023 CHEVROLET SILVERADO	19080002
2008571	2022 CHEVROLET SILVERADO	19080003
210047	2008 SULLAIR 185 DPQ JD	19040005
21741	2020 ROCK SOLID 8.5X16 CARGO	19080002
2182	2010 FREIGHTLINER M2106	19080007
2183	2010 FREIGHTLINER M2106	19080007
226598	2008 DODGE RAM 3500	19090007
237324	2005 CHEVROLET G-VAN	19080003
2403	2002 YALE GLP100	19040005
24389	2008 FORD F550	19080003
269516	2008 CHEVROLET IMPALA	19080008
273874	2008 CHEVROLET IMPALA	19040005
301472	2006 JLG INDUSTRIES 2030ES	19040004
304353	2015 FELLING XF-110-3HDG0006	19080002
304363	2015 DITCH WITCH FX30-04	19040005
304466	2015 K & K 7X22E23K	19110001
304467	2015 K & K 7X22E23K	19080002
304749	2016 CLARK C32C	19090003
304879	2016 CASE 580SN	19090007
304880	2016 CASE 580SN	19080007
304881	2016 CASE 580SN	19080003
304902	2016 POLARIS GEM EM1400 LSV	19040004
304903	2016 POLARIS GEM EM1400 LSV	19040005
304904	2016 POLARIS GEM EM1400 LSV	19040005

304905	2016 POLARIS GEM EM1400 LSV	19040004
304906	2016 POLARIS GEM EM1400 LSV	19040004
304907	2016 POLARIS GEM EM1400 LSV	19040005
304909	2016 POLARIS GEM EM1400 LSV	19090006
304910	2016 POLARIS GEM EM1400 LSV	19040005
304911	2016 POLARIS GEM EM1400 LSV	19090006
304912	2016 POLARIS GEM EM1400 LSV	19090006
304914	2016 POLARIS GEM EM1400 LSV	19090006
304950	2016 JOHN DEERE 5055E	19040004
304951	2016 WACKER NEUSON LTN6	19080002
304952	2016 WACKER NEUSON LTN6	19080003
304953	2016 ATLAS COPCO XAS185	19080002
305081	2016 LINCOLN WELDER	19090006
305114	2016 BOMAG BMP8500	19110001
305288	2017 SOLT SILENT MESSENGE	19080003
305289	2017 SOLT SILENT MESSENGE	19080002
305290	2017 SOLT SILENT ARROW	19110001
305295	2017 FINN CORP B40	19110001
305328	2017 HYDRA-TECH PUMP HT25DYS	19080003
305766	2018 CLUB CAR CARRYALL II	19090006
305776	2018 K & K 14` DMPTR	19110001
305942	2018 MOTO ELECTRIC ETB-46P	19090007
305943	2019 JOHN DEERE GATOR	19040005
306000	2019 K & K 8X25E212K	19080007
306196	2020 ATLAS COPCO XAS188	19080002
306253	2020 K & K 8X25E212K	19110001
306254	2020 K & K 8X25E210K	19080003

306256	2020 K & K 8X25E212K	19080003
306258	2020 K & K 8X25E212K	19090015
306411	2020 TAYLOR-DUNN BIGFOOT XL	19090007
306412	2020 TAYLOR-DUNN BIGFOOT XL	19090007
306413	2020 TAYLOR-DUNN BIGFOOT XL	19090007
306414	2020 TAYLOR-DUNN BIGFOOT XL	19090007
306415	2020 TAYLOR-DUNN BIGFOOT XL	19090007
306416	2020 TAYLOR-DUNN BIGFOOT XL	19090007
306440	2020 SOLAR TECHNOLOG SILENT SENTINEL	19080002
306794	2021 ARGO AURORA	19080002
306959	2021 CYNERGY CCL8.518TA2	19020009
306973	2021 JOHN DEERE GATOR	19040004
306974	2021 JOHN DEERE GATOR	19040005
306999	2022 CLUB CAR CARRYALL II	19090003
307000	2022 CLUB CAR CARRYALL II	19090003
307005	2022 CLUB CAR CARRYALL II	19090006
307111	2022 K&K EQUIPMENT 25`	19080002
307112	2022 K&K EQUIPMENT 25`	19080003
307113	2022 K&K EQUIPMENT 25`	19080003
307114	2022 K&K EQUIPMENT 25`	19080002
307115	2022 K&K EQUIPMENT 25`	19080002
307116	2022 K&K EQUIPMENT 25`	19080002
307117	2022 K&K EQUIPMENT 25`	19110001
307207	2022 SKID PRO X4-72	19090015
307679	2023 K & K 102X25E210K	19090015
307680	2023 K & K 102X25E210K	19040005
309017	2008 TAKEUCHI TL 130	19040004

32834	2002 MGS N32-6135	19080007
3621	1997 MO TRAILERS MO-06	19080007
3622	1997 MO TRAILERS MO-06	19080007
3623	1997 MO TRAILERS MO-06	19080007
3624	1997 MO TRAILERS MO-06	19080007
401217	2002 MITSUBISHI FBC20K	19090007
401687	2011 TOYOTA 7FGU35	19080001
401707	2011 DOOSAN DL220	19080002
401708	2011 DOOSAN DX255LC	19110001
401785	2013 CASE CX80	19080002
401787	2013 CASE CX80	19080003
401788	2013 CASE CX80	19080003
401828	2013 TOYOTA 8FGU30	19080007
401829	2007 CATERPILLAR 420E1T4ESA	19090006
401833	2007 KOMATSU D39PX-21A	19080002
401834	2007 KOMATSU FG30HT-16	19090006
401835	2007 GENIE GTH-844	19090006
401869	2014 CASE CX235C	19080002
401874	2014 CASE 580SN	19040005
401875	2014 CASE 580SN	19090003
401886	2014 CASE CX80	19080003
401891	2014 CASE CX80	19110001
402005	2016 CASE CX80	19110001
402006	2016 CASE CX80	19080003
402008	2016 VERMEER BC1400	19080002
402011	2016 CASE TV380	19080003
402016	2016 DIAMOND PRODUCT CC2525KC-20	19110001

402017	2016 DIAMOND PRODUCT CC2525KC-20	19080002
402018	2016 DIAMOND PRODUCT CC2525KC-20	19080002
402061	2017 WHITMAN WBH16	19110001
402062	2017 TOYOTA 8FGU25	19090007
402063	2017 TOYOTA 8FGU32	19040005
402081	2017 CASE CX80	19080002
402126	2018 TOYOTA 8BNCU18	19080001
402127	2018 KUBOTA RTVX1100CWL-H	19080002
402128	2018 TAKEUCHI TL 10V2-CRHR	19090007
402132	2018 CATERPILLAR 926M	19080001
402137	2018 CASE TV380	19090003
402140	2018 CASE CX80	19080003
402141	2018 CASE CX80	19080002
402142	2018 CASE CX80	19080003
402143	2018 BOBCAT T770	19110001
402170	2019 CATERPILLAR 299D3	19090015
402177	2020 SEA-ARK 2072-FX	19030004
402192	2019 CATERPILLAR 416F2	19080003
402193	2019 CATERPILLAR 416F2	19080003
402194	2019 CATERPILLAR 308	19110001
402235	2020 CATERPILLAR 289D3	19110001
402236	2020 CATERPILLAR 289D3	19080003
402290	2021 CATERPILLAR 289D3	19080003
402291	2021 CATERPILLAR 308	19110001
402292	2021 CATERPILLAR 308	19080003
402293	2021 CATERPILLAR 308	19080003
402304	2021 USJETTING 4025-750	19090007

402351	2023 CATERPILLAR 308	19080007
402352	2023 CATERPILLAR 306	19080003
402353	2023 CATERPILLAR 306	19080003
402368	2023 CLUB CAR CARRYALL 300 E	19090003
402369	2023 CLUB CAR CARRYALL 300 E	19090003
40740	2007 FORD E350	19040004
4158	2020 DEEP SOUTH 7X12	19090015
52098	2020 MULTIQUIP GX240	19080002
558301	2009 DODGE RAM 5500	19110001
620014	2002 TEREX TB50	19040005
66646	2007 STERLING LT9500	19080003
66649	2007 STERLING ACTERRA	19080003
66658	2007 STERLING ACTERRA	19080002
66659	2007 STERLING ACTERRA	19080007
70190	2008 TOYOTA 7FGU45	19040004
703185	2012 MGS CD103	19080007
703566	2017 HYDRA TECH PMP HT25DYS	19040005
72D032823	2002 MSG A70-6261-GENERA	19080007
7444	2019 ROCK SOLID 8.5X16 CARGO	19080002
752113	2017 MULTIQUIP MC94SH8	19110001
79838	2000 HOMEMADE TRAILER	19090007
832351	2007 DODGE RAM 3500	19090006
8325	2001 COMP DEWATERING 8TP-D4T-W	19080007
2008512	2023 CHEVROLET SILVERADO	19060002
2008514	2023 CHEVROLET SILVERADO	19080003
1591	2013 SUPERIOR 1510-L3513	19090006
2003673	2011 FORD RANGER	19080008

245654	2008 CHEVROLET SILVERADO	19080003
252	2001 GENIE TMZ34	19090007
332976	2015 TRAILER 10	19080002
65988	2008 FORD F150	19080002
866055	2012 HOMEMADE TRAILER	19040004
94949	2006 FORD RANGER	19080008
105403	2010 CHEVROLET COLORADO	19080008
106290	2008 CHEVROLET MALIBU	19040005
124459	2007 CHEVROLET 1500	19090006
139832	2009 CHEVROLET COLORADO	19100003
144084	2009 CHEVROLET COLORADO	19100002
1726	1997 TRAILER TRAILER	19090003
194844	2003 CHEVROLET G3500	19040005
196472	2007 CHEVROLET SILVERADO	19110001
2003422	2010 FREIGHTLINER M2106	19080003
2003423	2010 FREIGHTLINER M2106	19080003
2003424	2010 FREIGHTLINER M2106	19080003
2003431	2010 FREIGHTLINER M2106	19110001
2003642	2010 FORD F150	19090007
2005516	2012 CHEVROLET 3500	19080003
2005878	2011 POLARIS RANGER	19090006
2008634	2023 FORD F750	19080003
211834	2008 CHEVROLET EXPRESS	19040005
303302	2011 K & K 8X25E220KA	19110001
304468	2015 K & K 7X22E23K	19080003
304495	2015 K & K 8X30E212K	19080003
304878	2016 K & K 8X25E212K	19020009

304915	2016 POLARIS GEM EM1400 LSV	19090015
305256	2017 K & K 7X16E27K	19110001
305698	2018 K & K 8X25E212K	19080003
305699	2018 K & K 8X25E212K	19080003
305700	2018 K & K 8X25E212K	19080003
305701	2018 K & K 8X25E212K	19080003
305702	2018 K & K 8X25E212K	19110001
305726	2018 K & K 8X25E212K	19110001
31093	2008 FORD RANGER	19040004
329152	2001 WALLACE DLBT40-3	19080003
401783	2013 CASE TV380	19080003
401784	2013 CASE CX55	19110001
43055	2008 KOMATSU WB146-5	19080002
556284	2009 DODGE RAM 5500	19080007
558168	2009 DODGE RAM	19080003
558172	2009 DODGE RAM	19080003
558188	2009 DODGE RAM 3500	19080002
558190	2009 DODGE RAM 3500	19080002
558293	2009 DODGE RAM 5500	19080007
558294	2009 DODGE RAM 5500	19080007
558299	2009 DODGE RAM 5500	19080003
560076	2009 DODGE RAM 5500	19080007
66530	2008 FORD F450	19080003
66650	2007 STERLING ACTERRA	19080003
66652	2007 STERLING ACTERRA	19080003
7222	2005 FORD F350	19090007
74203	2008 FORD RANGER	19040005

74205	2008 FORD RANGER	19030003
832354	2007 DODGE RAM 3500	19080003
84044	2005 FORD RANGER	19090007
84045	2005 FORD RANGER	19090007
84046	2005 FORD RANGER	19090007
94948	2006 FORD RANGER	19040005
96865	2004 STERLING ACTERRA	19080007

Appendix D – Warehousing

Table 2 - Appendix D - Monthly Warehouse Cycle Count

Monthly Cycle Count					
Month	Total Inventory Counted		Total Discrepencies		Variance
July. 2021	$	300,455.65	$	625.52	0.21%
Aug. 2021	$	156,643.66	$	216.25	0.14%
Sept. 2021	$	456,858.72	$	449.20	0.10%
Oct.2021	$	576,306.66	$	973.10	0.17%
Nov.2021	$	641,259.06	$	542.74	0.08%
Dec. 2021	$	353,951.96	$	358.83	0.10%
Jan. 2022	$	214,299.12	$	736.08	0.34%
Feb. 2022	$	953,854.28	$	466.93	0.05%
Mar.2022	$	539,726.31	$	959.10	0.18%
Apr.2022	$	544,698.76	$	600.74	0.11%
May. 2022	$	392,753.09	$	425.53	0.11%
June. 2022	$	545,346.77	$	221.65	0.04%

Table 3 - Appendix D - On Hand Inventory Value

Monthly Inventory Transactions					
Month	# Stock Issue Transactions	Issue Value	Stock Received Transaction	Rec Value	Total Value Stock on Hand
July. 2021	1632	$475,014.18	156	$813,174.92	$3,363,831.85
Aug. 2021	1707	$422,802.79	135	$1,165,343.85	$3,883,742.66
Sept. 2021	1649	$293,902.26	92	$317,372.16	$3,856,120.71
Oct. 2021	1584	$387,465.89	95	$691,848.45	$4,257,197.04
Nov. 2021	1495	$576,711.59	96	$277,558.94	$4,069,740.94
Dec. 2021	1398	$471,163.87	61	$151,177.55	$3,786,038.17
Jan. 2022	1603	$245,875.30	81	$335,444.90	$3,912,756.41
Feb. 2022	1495	$380,658.10	140	$219,435.94	$3,752,043.12
Mar.2022	1969	$544,696.36	109	$275,633.87	$3,482,980.63
Apr. 2022	1685	$378,941.95	86	$378,941.95	$3,612,802.19
May. 2022	1842	$463,151.41	130	$426,989.65	$3,574,865.61
June. 2022	1818	$413,425.34	152	$863,439.45	$4,024,879.72

Table 4 - Appendix D - Sample Inventory List

Warehouse Material Inventory		
Storage Location	**Material**	**Material Description**
DWR	100002	ACETYLENE, COMPRESSED GAS L-BUILD
DWR	100007	ADAPTER, 1 1/2 NST X 1 1/2 NST NPT MALE
DWR	100008	ADAPTER, 2 1/2 NST X 1 1/2 NST MALE
DWR	100009	ADAPTER, 2 1/2" NST X 2" NPT MA X MA
DWR	100010	ADAPTER, 2 1/2" NST X 3/4" MAL GHT NIP
DWR	100011	ADAPTER, BELL X MJS 48" LCP YARD
DWR	100012	ADAPTER, DOUBLE SPIGOT 48" LCP YARD
DWR	100014	ADAPTER, FEMALE PVC SCH 80 1 1/4"
DWR	100015	ADAPTER, FEMALE PVC SCH 80 1"
DWR	100016	ADAPTER, FEMALE PVC SCH 80 1/2"
DWR	100017	ADAPTER, FEM THD/SLP PVC SCH 80 1 1/2"
DWR	100018	ADAPTER, FEMALE THD/SLP PVC SCH 80 2"
DWR	100019	ADAPTER, FEMALE PVC SCH 80 3/4"
DWR	100020	ADAPTER, MALE PVC SCH 80 1 1/2"
DWR	100021	ADAPTER, MALE PVC SCH 80 1 1/4"
DWR	100022	ADAPTER, MALE PVC SCH 80 1"
DWR	100023	ADAPTER, MALE PVC SCH 80 1/2"
DWR	100024	ADAPTER, MALE PVC SCH 80 2"
DWR	100025	ADAPTER, MALE PVC SCH 80 3/4"
DWR	100026	ADAPTER, MALE PVC SCH 80 4"
DWR	100027	ADAPTER, SPIGOT X MJS SP-5 48" LCP YARD
DWR	100028	ADAPTER, SWIVEL 2 1/2" NST X 2" NPT MALE
DWR	100036	ADHESIVE, SUPER/RUBBER- 5.0 OZ
DWR	100038	CANNED AIR DUSTER, 10 oz CAN
DWR	100039	AIR FILTER KIT, TS400 SAW 4223 007 1010
DWR	100049	ALCOHOL, 16OZ
DWR	100062	AMMONIA NITRATE, 34-0-0 50LB
DWR	100071	ANTI FRICT BEARING 47, MET250 M94 5 1/4
DWR	100074	ANTIFREEZE, LOW SILICANT
DWR	100075	ANTI-SEIZE, COPPER,16 OZ., W. BRUSH
DWR	100079	ARGON, COMPRESS GAS 75/25% CO2 MIX LB
DWR	100080	ARGON, COMPRESS GAS UHP 99.9993% LB
DWR	100102	AXE BUSH, 16" BLADE
DWR	100111	BACKFLOW PREVENT, PVC SCH 40, 4" R/FLAP
DWR	100112	BACKFLOW PREVENTOR, PVC SCH 40 6" VALVE
DWR	100152	BAG, EQUIPMENT (NET) BLACK 36" X 25"
DWR	100157	BAG, PLASTIC ZIP LOC 4" X 6" 100CT
DWR	100158	BAG, PLASTIC ZIP LOCK 9" X 12" 25CT

DWR	100159	BAG, PLASTIC ZIP LOCK, 5" X 8" 100CT
DWR	100170	BAG, SAND-BURLAP 17" X 30"
DWR	100172	BAG, TRASH 24" X 33" .23 ML 16GL CL
DWR	100173	BAG, TRASH 33" X 40" 1.5 ML 33GL BLK
DWR	100174	BAG, TRASH 38'' X 58'' 2 ML 55GL BLK
DWR	100176	BAG, TRASH 40" X 46" 1.5 ML 45GL BLK
DWR	100221	BAND AID, STRETCH CLOTH 1" X 3" 50CT
DWR	100222	BAND, DIMPLE (FLAT) 10" WIDE FOR 18" CMP
DWR	100223	BAND, DIMPLE (FLAT) 10" WIDE FOR 24" CMP
DWR	100224	BAND, DIMPLE (FLAT) 24"WIDE FOR 30" CMP
DWR	100225	BAND, DIMPLE (FLAT) 10" WIDE FOR 36" CMP
DWR	100226	BAND, SMOOTH (FLAT) 24" WIDE FOR 18" CMP
DWR	100227	BAND, SMOOTH (FLAT) 24" WIDE FOR 24" CMP
DWR	100228	BAND, SMOOTH (FLAT) 24" WIDE FOR 30" CMP
DWR	100229	BAND, SMOOTH (FLAT) 24" WIDE FOR 36" CMP
DWR	100234	BANDAGE, COMPRESS 3" X 3" 4CT
DWR	100240	BARREL, TRAFFIC ORANGE (5) 6" REFLECT
DWR	100249	BASIN, 3' HX4' DIAW/18"CR 2/HO 12/6 RCP
DWR	100250	BASIN, 3'HX4'DIA W/18"CR 2HOLES 12/3 RCP
DWR	100251	BASIN, 4' H X 4' DIAW/24"CR 2/HO12/3RCP
DWR	100252	BASIN, 4' H X 4' DIAW/30"CR 2/HO12/6RCP
DWR	100256	BATTERY, 6V ALK, LANTERN SPRING DWR ONLY
DWR	100259	BATTERY, 9V
DWR	100272	BEAKER, PYREX GRIFFIN 50ML
DWR	100277	BELL REDUCER, BRASS 1" X 3/4" IP
DWR	100279	BELL REDUCER, GALV 1 1/2" X 2" PIPE
DWR	100280	BELL REDUCER, GALV 1 1/4" X 1" PIPE
DWR	100281	BELL REDUCER, GALV 1" X 1 1/2" PIPE
DWR	100283	BELL REDUCER, GALV 2 1/2" X 2" PIPE
DWR	100284	BELL REDUCER, GALV 3/4" X 1" PIPE
DWR	100285	BELL REDUCER, GALV 3/4" X 1/2" PIPE
DWR	100286	BELL REDUCER, GALV 4" X 3" PIPE
DWR	100314	BELT, TS400
DWR	100431	BEND, 10" DIP MJ 11 1/4DEGREE
DWR	100432	BEND, 10" DIP MJ 22 1/2DEGREE
DWR	100433	BEND, 10" DIP MJ 45DEGREE
DWR	100434	BEND, 10" DIP MJ 90DEGREE
DWR	100435	BEND, 12" DIP MJ 11 1/4DEGREE
DWR	100436	BEND, 12" DIP MJ 22 1/2DEGREE
DWR	100437	BEND, 12" DIP MJ 45DEGREE
DWR	100438	BEND, 12" DIP MJ 90DEGREE
DWR	100439	BEND, 14" DIP MJ 11 1/4DEG (yard)

DWR	100440	BEND, 14" DIP MJ 22 1/2DEG (yard)
DWR	100441	BEND, 14" DIP MJ 45DEG (yard)
DWR	100442	BEND, 14" DIP MJ 90 DEG (yard)
DWR	100443	BEND, 16" DIP MJ 11 1/2DEGREE
DWR	100444	BEND, 16" DIP MJ 22 1/2DEGREE
DWR	100445	BEND, 16" DIP MJ 45DEGREE
DWR	100446	BEND, 16" DIP MJ 90DEGREE
DWR	100447	BEND, 18" DIP MJ 11 1/4DEG (yard)
DWR	100448	BEND, 18" DIP MJ 22 1/2DEG (yard)
DWR	100449	BEND, 18" DIP MJ 45DEG (yard)
DWR	100450	BEND, 18" DIP MJ 90DEG (yard)
DWR	100451	BEND, 20" DIP MJ 11 1/4DEG (yard)
DWR	100452	BEND, 20" DIP MJ 22 1/2DEG (yard)
DWR	100453	BEND, 20" DIP MJ 45DEG (yard)
DWR	100454	BEND, 20" DIP MJ 90DEG (yard)
DWR	100455	BEND, 24" DIP MJ 11 1/4DEG (yard)
DWR	100456	BEND, 24" DIP MJ 22 1/2DEG (yard)
DWR	100457	BEND, 24" DIP MJ 45DEG (yard)
DWR	100458	BEND, 30" DIP MJ 11 1/4DEG (yard)
DWR	100459	BEND, 30" DIP MJ 22 1/2DEG (yard)
DWR	100460	BEND, 30" DIP MJ 45DEG (yard)
DWR	100461	BEND, 30" DIP MJ 90 DEG (yard)
DWR	100462	BEND, 4" DIP MJ 11 1/4DEGREE
DWR	100463	BEND, 4" DIP MJ 22 1/2DEGREE
DWR	100464	BEND, 4" DIP MJ 45DEGREE
DWR	100465	BEND, 4" DIP MJ 90DEGREE
DWR	100466	BEND, 4" FL X FL 90DEGREE 150LB
DWR	100467	BEND, 4" X 1/16" PVC SCH 40 STR GLUE JT
DWR	100468	BEND, 4" X 1/8" PVC SCH 40 STR GLUE JT
DWR	100470	BEND, 6" DIP MJ 11 1/4DEGREE
DWR	100471	BEND, 6" DIP MJ 22 1/2DEGREE
DWR	100472	BEND, 6" DIP MJ 45DEGREE
DWR	100473	BEND, 6" DIP MJ 90DEGREE
DWR	100474	BEND, 8" DIP MJ 11 1/4DEGREE
DWR	100475	BEND, 8" DIP MJ 22 1/2DEGREE
DWR	100476	BEND, 8" DIP MJ 45DEGREE
DWR	100477	BEND, 8" DIP MJ 90DEGREE
DWR	100478	BEND, GALV 1" PIPE ELBOW 90D
DWR	100479	BEND, GALV 1" PIPE ELBOWS 45D
DWR	100480	BEND, GALV 1/2" 90D
DWR	100481	BEND, GALV 1/2" STREET 90D
DWR	100485	BEND, GALV 1/8" STREET 90D

DWR	100486	BEND, GALV 2 1/2" ELBOW 45 D PIPE
DWR	100487	BEND, GALV 2 1/2" ELBOW 90 D PIPE
DWR	100488	BEND, GALV 2" ELBOW 45 D PIPE
DWR	100489	BEND, GALV 2" ELBOW 90 D PIPE
DWR	100490	BEND, GALV 2" ELBOW STREET 90D
DWR	100491	BEND, GALV 3/4" ELBOW 45D PIPE
DWR	100492	BEND, GALV 3/4" ELBOW 90D PIPE
DWR	100493	BEND, GALV 3/4" ELBOW STREET 90D PIPE
DWR	100494	BEND, GALV 3/8" ELBOW 90D PIPE
DWR	100496	BEND, PVC SCH 35 6" STREET ELL 1/16 22 D
DWR	100497	BEND, PVC SCH 35 6" STREET ELL 1/8 45 D
DWR	100498	BEND, PVC SCH 35 6" X 1/16" 22 D
DWR	100500	BEND, PVC SCH 35 6" X 1/8" 45 D
DWR	100501	BEND, PVC SCH 40 4" X 1/16" 22D
DWR	100503	BEND, PVC SCH 40 4" X 1/8" 45 D
DWR	100504	BEND, PVC SCH 80 1 1/2" 45 D
DWR	100505	BEND, PVC SCH 80 1 1/2" 90 D
DWR	100507	BEND, PVC SCH 80 1 1/4" 90 D
DWR	100508	BEND, PVC SCH 80 1" 45 D
DWR	100509	BEND, PVC SCH 80 1" 90 D
DWR	100510	BEND, PVC SCH 80 1" 90 D THD TO THD
DWR	100511	BEND, PVC SCH 80 1/2" 45 D
DWR	100512	BEND, PVC SCH 80 1/2" 90 D
DWR	100513	BEND, PVC SCH 80 2 1/2" 45 D
DWR	100514	BEND, PVC SCH 80 2 1/2" 90 D
DWR	100515	BEND, PVC SCH 80 2" 45 D
DWR	100516	BEND, PVC SCH 80 2" 90 D
DWR	100517	BEND, PVC SCH 80 3" 45 D
DWR	100518	BEND, PVC SCH 80 3" 90 D
DWR	100519	BEND, PVC SCH 80 3/4" 45 D
DWR	100520	BEND, PVC SCH 80 3/4" 90 D
DWR	100521	BEND, PVC SCH 80 4" 45 D
DWR	100522	BEND, PVC SCH 80 4" 90 D
DWR	100523	BEND, PVC SCH 80 6" 45 D
DWR	100524	BEND, PVC SCH 80 6" 90 D
DWR	100525	BACKFLOW PREVENTER, 1"DBL CHK-FIP,T-PLUG
DWR	100526	BACK FLOW PREVENTER,2" DBL CHK-test port
DWR	100527	BACKFLOW PREVENTER, 3/4" RESIDENTIAL
DWR	100541	BINDER, RING 1" BLK W/View insert
DWR	100542	BINDER, RING 2" BLK, W/View Insert
DWR	100677	BIT DRILL, 5/8" MASONRY-SHANK 1/2" X 6"
DWR	100678	BIT DRILL, 5/8" STEEL-SHANK 1/2" X 6"

DWR	100684	BLADE, 16" WHEEL CUTTER
DWR	100685	BLADE, 3/4" WHEEL TUBING CUTTERS
DWR	100689	BLADE, 8" TO 12" WHEEL CUTTER
DWR	100694	BLADE, HACKSAW, 12" X 18 TOOTH
DWR	100702	BLADE, PIPE CUTTER 2"
DWR	100703	BLADE, PIPE CUTTER 3" AND 4"
DWR	100708	BLADE, SAW 12" DIAMOND TIP ASPHALT 20MM
DWR	100709	BLADE, SAW 12" DIAMOND,CURED CONC, 20MM
DWR	100710	BLADE, SAW 12" MASONARY 1" ARBOR
DWR	100711	BLADE, SAW 12" MASONARY 20MM ARBOR
DWR	100712	BLADE, SAW 12" STEEL 20 MM ARBOR
DWR	100713	BLADE, SAW 12"STEEL/CARBON, 1"
DWR	100714	BLADE, SAW 14" CONC X 1/8",1" W/P-HOLE
DWR	100716	BLADE, SAW 14" STEELW/ 20 MM ARBOR
DWR	100717	BLADE, SAW 18" DIAMOND W 1" ASPHALT
DWR	100718	BLADE, SAW 18" DIAMOND W 1"C-CONCRETE
DWR	100719	BLADE, SAW 18" PVC/ABS,CARBON STEEL
DWR	100720	BLADE, SAWZALL 10/14T X 12" PLASTIC
DWR	100721	BLADE, SAWZALL 4" DEWALT
DWR	100722	BLADE, SAWZALL 8" DEWALT DW4809
DWR	100733	BOLT CUTTER, 24" HD
DWR	100739	BOLT, 1 1/4" X 7" HEX HEAD CAP
DWR	100740	BOLT, 1" X 4 1/2" HEX HEAD CAP
DWR	100743	BOLT, 1/2" X 1 1/2" 13 HEX HEAD CAP
DWR	100744	BOLT, 1/2" X 1 1/4" 13 HEX HEAD CAP
DWR	100745	BOLT, 1/2" X 1 3/4" HEX HEAD CAP
DWR	100746	BOLT, 1/2" X 1", HEX HEAD CAP, FULL THD
DWR	100747	BOLT, 1/2" X 8" CARRIAGE BANDS
DWR	100748	BOLT, 1/2" X 2 1/2" 13 HEX CAP FULL THD
DWR	100749	BOLT, 1/2" X 2 1/2" S/S HEX HEAD CAP
DWR	100750	BOLT, 1/2" X 2 1/4" HEX HEAD CAP
DWR	100751	BOLT, 1/2" X 2 3/4" HEX HEAD CAP
DWR	100752	BOLT, 1/2" X 2" HEX HEAD CAP
DWR	100753	BOLT, 1/2" X 3 1/2" HEX HEAD CAP
DWR	100754	BOLT, 1/2" X 3" HEX CAP FULL THD
DWR	100755	BOLT, 1/2" X 3/4" HEX HEAD CAP
DWR	100756	BOLT, 1/2" X 4" 13 HEX HEAD CAP
DWR	100757	BOLT, 1/2" X 6" CARRIAGE BANDS
DWR	100758	BOLT, 1/4" X 1 1/2" 20 HEX HEAD CAP
DWR	100759	BOLT, 1/4" X 1 1/4" 20 HEX HEAD CAP
DWR	100760	BOLT, 1/4" X 1 3/4" 20 HEX CAP FULL THD
DWR	100761	BOLT, 1/4" X 1" 20 HEX HEAD CAP

DWR	100763	BOLT, 1/4" X 2 1/2" 20 HEX HEAD CAP
DWR	100764	BOLT, 1/4" X 2 3/4" 20 HEX HEAD CAP
DWR	100765	BOLT, 1/4" X 2",20 HEX HEAD CAP
DWR	100766	BOLT, 1/4" X 3/4" HEX HEAD CAP
DWR	100767	BOLT, 1/4" X 5/8" 20 HEX CAP FULL THD
DWR	100768	BOLT, 3/4" X 1 1/2" HEX CAP FULL THD
DWR	100769	BOLT, 3/4" X 1 3/4" HEX CAP FULL THD
DWR	100770	BOLT, 3/4" X 1" HEX CAP FULL THD
DWR	100771	BOLT, 3/4" X 2 1/2" HEX CAP FULL THD
DWR	100772	BOLT, 3/4" X 2 1/4" HEX CAP FULL THD
DWR	100773	BOLT, 3/4" X 2" HEX HEAD CAP FULL THD
DWR	100774	BOLT, 3/4" X 3 1/2" HEX HEAD CAP
DWR	100775	BOLT, 3/4" X 3" HEX CAP W/NUT
DWR	100777	BOLT, 3/4" X 4 1/2" T-HEAD MJ W/NUT
DWR	100778	BOLT, 3/4" X 4" HEX HEAD CAP
DWR	100779	BOLT, 3/4" X 4" MJ ANTI ROTATE
DWR	100780	BOLT, 3/4" X 4" MJ T-HEAD W/NUT
DWR	100781	BOLT, 3/4" X 4.5" MJ TIE LOOP HEAD
DWR	100782	BOLT, 3/4" X 6" MJ ANTI ROTATE
DWR	100783	BOLT, 3/4" X 6" MJ 90D TIE LOOP HEAD
DWR	100784	BOLT, 3/8" X 1 1/2" 16 HEX HEAD CAP
DWR	100785	BOLT, 3/8" X 1 1/4" HEX CAP FULL THD
DWR	100786	BOLT, 3/8" X 1 3/4" HEX CAP FULL THD
DWR	100787	BOLT, 3/8" X 1" 16 HEX CAP
DWR	100788	BOLT, 3/8" X 2 1/2" HEX CAP
DWR	100789	BOLT, 3/8" X 2 1/4" HEX CAP FULL THD
DWR	100790	BOLT, 3/8" X 2" HEX CAP SS
DWR	100791	BOLT, 3/8" X 2" HEX CAP
DWR	100792	BOLT, 3/8" X 3/4" HEX CAP FULL THD
DWR	100793	BOLT, 5/16" X 1 1/2" HEX CAP FULL THD
DWR	100794	BOLT, 5/16" X 1 1/4" HEX CAP FULL THD
DWR	100795	BOLT, 5/16" X 1 3/4" HEX CAP FULL THD
DWR	100796	BOLT, 5/16" X 1" HEX CAP
DWR	100797	BOLT, 5/16" X 2 1/2" HEX CAP
DWR	100798	BOLT, 5/16" X 2 1/4" HEX CAP
DWR	100799	BOLT, 5/16" X 2" HEX CAP
DWR	100800	BOLT, 5/16" X 3/4" HEX CAP
DWR	100801	BOLT, 5/8" X 1 1/2" HEX CAP FULL THD
DWR	100802	BOLT, 5/8" X 1 1/4" HEX CAP FULL THD
DWR	100803	BOLT, 5/8" X 1 3/4" HEX CAP FULL THD
DWR	100805	BOLT, 5/8" X 1 1/16" HEX CAP
DWR	100806	BOLT, 5/8" X 2 1/2" FRANGIBLE W NUT-EACH

DWR	100807	BOLT, 5/8" X 2 1/2" HEX CAP
DWR	100808	BOLT, 5/8" X 2 1/2" HEX CAP FULL THD
DWR	100809	BOLT, 5/8" X 2 1/4" HEX CAP FULL THD
DWR	100810	BOLT, 5/8" X 2" 11 HEX CAP
DWR	100811	BOLT, 5/8" X 3 1/2" 48" ECP/LCP W NUT
DWR	100812	BOLT, 5/8" X 3" HEX CAP FULL THD
DWR	100813	BOLT, 5/8" X 3" MJ 3 AND 4" DIP
DWR	100815	BOLT, 5/8" X 4" FRANGIBLE W NUT-each
DWR	100816	BOLT, 5/8" X 4" HEX HEAD CAP
DWR	100817	BOLT, 7/16" X 1 1/2" HEX CAP FULL THD
DWR	100818	BOLT, 7/16" X 1 3/4" HEX CAP
DWR	100819	BOLT, 7/16" X 1" HEX CAP FULL THD
DWR	100820	BOLT, 7/16" X 2 1/2" HEX CAP FULL THD
DWR	100821	BOLT, 7/16" X 2 1/4" HEX CAP FULL THD
DWR	100822	BOLT, 7/16" X 2" HEX CAP FULL THD
DWR	100823	BOLT, 7/16" X 3/4" HEX CAP FULL THD
DWR	100824	BOLT, 7/8" X 4" HEX HEAD CAP
DWR	100825	BOLT, 9/16 X 2 1/4" HEX HEAD CAP
DWR	100826	BOLT, 9/16" X 1 1/2" HEX CAP FULL THD
DWR	100827	BOLT, 9/16" X 2 1/2" HEX CAP FULL THD
DWR	100828	BOLT, 9/16" X 2" HEX CAP FULL THD
DWR	100829	BOLT, 9/16" X 3 1/2" HEX CAP FULL THD
DWR	100830	BOLT, 9/16" X 3" HEX CAP FULL THD
DWR	100853	BONNET O RING, CLOW T2401032 M32
DWR	100854	BONNET, CLOW M1600809 M30
DWR	100856	BOOK, LOG 12 1/8" X 7.5" LINED PAGES
DWR	100865	BOOT, KOR-N-SEAL M/H 8" DIP/PVC
DWR	100898	BOOT, M/H 106-16 SZ 12 TO 14 1/2
DWR	100899	BOOT, M/H 106-16B DI 9 1/2" X 11 1/4"
DWR	100900	BOOT, M/H 9X10.5 CR HL 406-12 PL 7.5" 9"
DWR	100902	BOOT, M/H KOR-N-SEAL 6" CLAY/DIP/PVC
DWR	100903	BOOT, M/H PVC 106-16A 10.5"X13.25"
DWR	100904	BOOT, PVC SZ 10 S/TOE 16" PULL UP
DWR	100905	BOOT, PVC SZ 11 S/TOE 16" PULL UP
DWR	100906	BOOT, PVC SZ 12 S/TOE 16" PULL UP
DWR	100907	BOOT, PVC SZ 13 S/TOE 16" PULL UP
DWR	100908	BOOT, PVC SZ 14 S/TOE 16" PULL UP
DWR	100909	BOOT, PVC SZ 15 S/TOE 16" PULL UP
DWR	100910	BOOT, PVC SZ 16 S/TOE 16" PULL UP
DWR	100911	BOOT, PVC SZ 6 S/TOE 16" PULL UP
DWR	100912	BOOT, PVC SZ 7 S/TOE 16" PULL UP
DWR	100913	BOOT, PVC SZ 8 S/TOE 16" PULL UP

DWR	100914	BOOT, PVC SZ 9 S/TOE 16" PULL-UP
DWR	100915	BOOT, RUBBER HIP STEEL TOE SZ 10
DWR	100916	BOOT, RUBBER HIP STEEL TOE SZ 11
DWR	100917	BOOT, RUBBER HIP STEEL TOE SZ 12
DWR	100918	BOOT, RUBBER HIP STEEL TOE SZ 13
DWR	100919	BOOT, RUBBER HIP STEEL TOE SZ 6
DWR	100920	BOOT, RUBBER HIP STEEL TOE SZ 7
DWR	100921	BOOT, RUBBER HIP STEEL TOE SZ 8
DWR	100922	BOOT, RUBBER HIP STEEL TOE SZ 9
DWR	100923	BOTTLE, LARGE SQUARE 1GAL W LID
DWR	100925	BOTTLE, PLASTIC 1/2GAL CLEAR W CAP
DWR	100926	BOTTLE, PLASTIC 32OZ W/TRIGGER SPRAYER
DWR	100928	BOTTLE, SAMPLE 1000 ML, Wide Mouth
DWR	100929	BOTTLE, SAMPLE 125 ML W/CAP (12PK)
DWR	100930	BOTTLE, SAMPLE 500 ML, Wide Mouth
DWR	100933	BOTTLE, WASH/SQUIRT, 1000 ML 03 409 22D
DWR	100952	BROOM, INDUSTRIAL CORN 12CT
DWR	100955	BROOM, STREET PUSH broom only
DWR	100960	BRUSH, 9" TRUCK brush only
DWR	100961	BRUSH, ALGAE 9" X 1 1/2" PL HD/SS BRIS
DWR	100962	BRUSH, FLOOR 24" 12CT
DWR	100963	HANDLE, WOODEN 60" X 15/16" W/METAL THD
DWR	100966	BRUSH, TOILET BOWL W/12" HANDLE
DWR	100968	BRUSH, UTILITY 9" L X 3" W
DWR	100973	BRUSH, WIRE 1 1/8" X 10" L
DWR	101084	BURN SPRAY, 3 OZ Aerosol Can
DWR	101086	BUSHING, REDUCE 1" X 3/4" BR HEX CC THD
DWR	101087	BUSHING, REDUCE 1" X 3/4" BR HEX NPT THD
DWR	101088	BUSHING, REDUCE PVC SCH 80 1 1/2"X1 1/4"
DWR	101089	BUSHING, REDUCER PVC SCH 80 1 1/4" X 1"
DWR	101090	BUSHING, REDUCER PVC SCH 80 1" X 3/4"
DWR	101091	BUSHING, REDUCER PVC SCH 80 1/2" X 1/4"
DWR	101092	BUSHING, REDUCER PVC SCH 80 2" X 1 1/2"
DWR	101093	BUSHING, REDUCER PVC SCH 80 2" X 1 1/4"
DWR	101094	BUSHING, REDUCER PVC SCH 80 2" X 1"
DWR	101095	BUSHING, REDUCER PVC SCH 80 2" X 1/2"
DWR	101096	BUSHING, REDUCER PVC SCH 80 2" X 3/4"
DWR	101097	BUSHING, REDUCER PVC SCH 80 3" X 2 1/2"
DWR	101098	BUSHING, REDUCER PVC SCH 80 3/4" X 1/2"
DWR	101099	BUSHING, REDUCER PVC SCH 80 4" X 2"
DWR	101100	BUSHING, REDUCER PVC SCH 80 4" X 3"
DWR	101101	BUSHING, REDUCER PVC SCH 80 4" X 6"

DWR	101102	REDUCING, BUSHING HEX GALV 1 1/2" X 2"
DWR	101108	CABLE PULLER, 8000LB LOAD (2.8-55)
DWR	101124	CABLE, PULLING 3/8 AIRCRAFT GALV 100FT
DWR	101126	CABLE, JUMPER 16FT 4 GUAGE
DWR	101128	CALCIUM CHLORIDE, 50LB., LOWER BUILD
DWR	101137	JUG, POLY JERRI 2 1/2 GAL CL WI/CAP
DWR	101138	JUG, POLY JERRI 5 GAL CL W/CAP
DWR	101140	CAP, 1" NPT 150LB 304S/S
DWR	101141	CAP, 1/2" NPT 150LB 304S/S
DWR	101142	CAP, 1/4" NPT 150LB 304S/S
DWR	101143	CAP, 1/8" NPT 150LB 304S/S
DWR	101144	CAP, 10" MJ DIP W/ACC
DWR	101145	CAP, 12" MJ DIP
DWR	101146	CAP, 14" MJ DIP
DWR	101147	CAP, 16" MJ DIP
DWR	101148	CAP, 2" NPT 150LB 304S/S
DWR	101149	CAP, 20" MJ DIP FULL BODY W/ACC
DWR	101150	CAP, 24" MJ DIP
DWR	101151	CAP, 3" NPT 150LB 304S/S
DWR	101152	CAP, 3/8" NPT 150LB 304S/S
DWR	101153	CAP, 30" MJ DIP
DWR	101154	CAP, 36" MJ DIP
DWR	101155	CAP, 6" MJ DIP
DWR	101156	CAP, 8" MJ DIP
DWR	101159	CAP, GALV 1 1/4"
DWR	101160	CAP, GALV 1"
DWR	101161	CAP, GALV 1/2"
DWR	101164	CAP, GALV 2 1/2" CAP
DWR	101165	CAP, GALV 2"
DWR	101166	CAP, GALV 3/4" PIPE
DWR	101171	CAP, NOZZLE HOSE W/CHAINS 2 1/2"
DWR	101172	CAP, PUMPER NOZZLE W CHAINS 4 1/2"
DWR	101173	CAP, PVC SCH 40 6" SCREW
DWR	101174	CAP, PVC SCH 80 1"
DWR	101175	CAP, PVC SCH 80 3/4"
DWR	101176	CAP, PVC SCH 80 4"
DWR	101177	CAP, PVC SCH 80 6"
DWR	101179	CAP, SUMMER-TAN- MESH BACK
DWR	101182	CAP, WEATHER CLOW M0800588 M26
DWR	101184	CAP, WATCH BLACK, SOCK HAT
DWR	101185	CARBURATOR CLEANER, AEROSOL SPRAY
DWR	101235	CAULK, 100% SILICONE CLEAR 10.1OZ

DWR	101236	CAULK, BUTYL RUBBER FORMULA 10.1OZ
DWR	101237	CAULK, GUN W TIP CUTTER SPOUT NEEDLE
DWR	101243	CELL, DISPOSABLE FOR DR2000 HACH
DWR	101245	CEMENT, PORTLAND TYPE 1 94LB BAG
DWR	101246	CEMENT, SPEED PLUG HYDRAULIC 5GAL
DWR	101247	CEMENT, QUICKCRETE W ROCKS SAND 80LB
DWR	101258	CHAIN, 3/8" G-70 DOT SPEC 6,600LB
DWR	101259	CHAIN, CHAIN SAW STIHL 33RM266
DWR	101300	CHISEL, COLD-1" X 12" HEX HEAD
DWR	101314	CLAMP, 1" WATER HOSE S/S BANDING
DWR	101315	CLAMP, 10" BELL JOINT DI OD 11.10-11.40
DWR	101316	CLAMP, 10" FULL CIR 12"LG OD11.04-12.24
DWR	101317	CLAMP, 10" FULL CIR 12"LG OD11.10-11.90
DWR	101319	CLAMP, 10" FULL CIR 20"LG OD 11.04-12.24
DWR	101320	CLAMP, 12" BELL JOINT DI OD 13.20-13.50
DWR	101321	CLAMP, 12" FULL CIR 20"LG OD 13.14-14.34
DWR	101322	CLAMP, 12" FULL CIR 12"LG OD 13.14-14.34
DWR	101323	CLAMP, 12" FULL CIR 12"LG OD 13.20-14.00
DWR	101324	CLAMP, 12" FULL CIR 12"LG OD 13.50-14.30
DWR	101326	CLAMP, 14" BELL JOINT DI OD 15.16-15.90
DWR	101328	CLAMP, 14" FULL CIR 15"LG OD 15.07-15.82
DWR	101329	CLAMP, 16" BELL JOINT DI OD 17.40-17.80
DWR	101330	CLAMP, 16" FULL CIR 20"LG OD 17.15-17.90
DWR	101331	CLAMP, 16" FULL CIR 20"LG OD 18.00-18.90
DWR	101332	CLAMP, 16" FULL CIR 20"LG OD 18.46-19.21
DWR	101334	CLAMP, 2" FULL CIR 12"LG S-PIPE OD 2.35
DWR	101336	CLAMP, 20" FULL CIR 24"LG OD 21.52-22.27
DWR	101337	CLAMP, 24" BELL JOINT DI OD 25.80-26.32
DWR	101338	CLAMP, 24" FULL CIR 18"LG OD 25.70-26.80
DWR	101339	CLAMP, 3" FULL CIR 12" LG S-PIPE OD 3.49
DWR	101340	CLAMP, 3" WATER DISCHAR S/S BANDING LB
DWR	101341	CLAMP, 3/4" WATER HOSE S/S BANDING
DWR	101342	CLAMP, 30" BELL JOINT DI OD 31.74-32.74
DWR	101343	CLAMP, 36" BELL JOINT DI OD 37.96-38.70
DWR	101344	CLAMP, 4" BELL JOINT DI OD 4.80 5.00
DWR	101345	CLAMP, 4" FULL CIR 12" LG OD 4.74-5.57
DWR	101346	CLAMP, 6" BELL JOINT DI OD 6.90-7.10
DWR	101347	CLAMP, 6" FULL CIR 12" LG OD 6.84-7.24
DWR	101348	CLAMP, 6" FULL CIR 20" LG OD 6.62-7.42
DWR	101349	CLAMP, 8" BELL JOINT DI OD 9.05 9.30
DWR	101350	CLAMP, 8" FULL CIR 12" LG OD 8.62-9.42
DWR	101351	CLAMP, 8" FULL CIR 20" LG OD 8.62-9.42

DWR	101352	CLAMP, 8" FULL CIR 20" LG OD 8.99-9.79
DWR	101357	CLEANOUT, PVC SCH 35 6" W/SCREW CAP
DWR	101363	CLEANER, BATHROOM TUB AND TILE 1GAL 4CT
DWR	101369	CLEANER, CONTACT SPRAY AEROSOL 18OZ
DWR	101377	CLEANER, GLASS 32oz
DWR	101381	CLEANER, HAND LANOLIN UNSCENTED 32 OZ
DWR	101385	CLEANER, MOISTURE DISPLACER AEROSOL 24OZ
DWR	101392	CLEANER, POLISH STAINLESS STEEL AEROSOL
DWR	101405	CLEANER, VINYL AND RUBBER RESTORER 32OZ
DWR	101414	CLEANOUT CAP, 3" BRASS SCREW
DWR	101415	CLEANOUT CAP, 4" BRASS SCREW
DWR	101418	CLEANOUT, PVC SCH 40 4" W/SCREW CAP
DWR	101422	CLIP, BINDER LARGE 1" 12CT
DWR	101426	CLIP, BINDER MEDIUM 5/8" 12CT
DWR	101429	CLIP, BINDER SMALL 3/8" 12CT
DWR	101431	CLIP, EMPLOYEE BADGE RETRACTABLE
DWR	101437	CLIP, PAPER JUMBO
DWR	101441	CLIP, PAPER SMALL
DWR	101442	CLIPBOARD, HARDBOARD 9 1/2" X 12 1/2"
DWR	101444	CLIPBOARD, PLASTIC WITH STORAGE
DWR	101446	CLOSURE, 6' LL X 48"W RINGS LCP L301
DWR	101449	CLOTH, SANDING 1" X 50YD 180 GRIT
DWR	101533	CONCRETE ADAPTER, 5' TO 4' ROUND
DWR	101534	CONCRETE ADAPTER, 58" RND X 36" SQ
DWR	101570	CONE, 28" FLU ORG PVC 6" AND 4" REFL STR
DWR	101640	COPPER, DISC 3/4" METER PLUG 10CT
DWR	101645	CORPORATION, 1" CC X COMP COPPER
DWR	101646	CORPORATION, 2" MIP X 2" MIP BALL TYPE
DWR	101647	CORPORATION, 3/4" Ball CC X CTS COMP
DWR	101648	CORPORATION, DUO STOP 3/4" X 2 PVC BR
DWR	101650	Q TIP (COTTON), WOOD HANDLE 6" LG 10CT
DWR	101654	COUPLER, FEMALE QUICK DISCONNECT 1/4"
DWR	101657	COUPLING UNION, 2" 3 PIECE COMP CTS
DWR	101658	COUPLING ADAPT, 2" FIP X NUT AND GASKET
DWR	101659	COUPLING ADAPT, 2" MIP X NUT AND GASKET
DWR	101660	COUPLING, 1" NPT 150LB 304S/S
DWR	101661	COUPLING, 1/2" NPT 150LB 304S/S
DWR	101662	COUPLING, 1/4" NPT 150LB 304S/S
DWR	101663	COUPLING, 1/8" NPT 150LB 304S/S
DWR	101664	COUPLING, 2" NPT 150LB 304S/S
DWR	101665	COUPLING, 3" NPT 150LB 304S/S
DWR	101666	COUPLING, 3/8" NPT 150LB 304S/S

DWR	101668	COUPLING, ADAPT 1" ADAP MIP X COM BR
DWR	101669	COUPLING, ADAPT, 1" FIP X COMP BR
DWR	101670	COUPLING, ADAPT, 1" METER X 1" FIP
DWR	101671	COUPLING, ADAPTER 3/4" FIP X CTS/NUT
DWR	101673	COUPLING, ADAPTER 3/4" MIP X COMP/NUT
DWR	101674	COUPLING, ANCHOR 6" X 12" LG DI MJ
DWR	101675	COUPLING, COMP 2 1/2", GALV/PVC HP PIPE
DWR	101676	COUPLING, COMP 3" GALV/PVC HP PIPE
DWR	101677	COUPLING, COMP 4" GALV/PVC HP PIPE
DWR	101678	COUPLING, DRESSER GALV 1" X 5" LONG
DWR	101679	COUPLING, DRESSER GALV 3/4" X 5" LONG
DWR	101680	COUPLING, ELBOW 3/4" COMP BRONZE
DWR	101681	COUPLING, FERNCO 10" CL TO 10" CL
DWR	101682	COUPLING, FERNCO 10" CL TO 10" DI
DWR	101683	COUPLING, FERNCO 10" CL TO 10" PL
DWR	101684	COUPLING, FERNCO 10" DI/AC TO 10" DI/AC
DWR	101685	COUPLING, FERNCO 10" DI/AC TO 10" PL
DWR	101686	COUPLING, FERNCO 10" PL/CI X 10" PL/CI
DWR	101687	COUPLING, FERNCO 12" CL TO 12" C.I./PL
DWR	101688	COUPLING, FERNCO 12" CL TO 12" CL
DWR	101689	COUPLING, FERNCO 15" CI/PL TO 15" CI/PL
DWR	101690	COUPLING, FERNCO 15" CL TO 15" CI / PL
DWR	101691	COUPLING, FERNCO 18" CL TO 18"AC/DI
DWR	101692	COUPLING, FERNCO 3" FIT ALL
DWR	101693	COUPLING, FERNCO 4" FIT ALL
DWR	101694	COUPLING, FERNCO 4" AC/DI TO 4" AC/DI
DWR	101695	COUPLING, FERNCO 4" CL TO 4" PL/CI
DWR	101696	COUPLING, FERNCO 4" CL/AC TO 4" DI
DWR	101697	COUPLING, FERNCO 4" CLAY TO 4" CLAY
DWR	101698	COUPLING, FERNCO 4" CONTO 4" CI/PL
DWR	101699	COUPLING, FERNCO 6" CL TO 6" DI/AC
DWR	101700	COUPLING, FERNCO 6" CL TO 6" PL/CI
DWR	101701	COUPLING, FERNCO 6" CL TO CL 1001-66
DWR	101702	COUPLING, FERNCO 6" DI TO 6" PL SCH 35
DWR	101703	COUPLING, FERNCO 6" DI/AC TO 6" DI/AC
DWR	101704	COUPLING, FERNCO 6" PVC 35 X 4" PVC 40
DWR	101705	COUPLING, FERNCO 8" CL X 6" CL
DWR	101706	COUPLING, FERNCO 8" DIP TO 8" DIP
DWR	101707	COUPLING, FERNCO 8" PL TO 6" PL
DWR	101708	COUPLING, FERNCO 8" CLAY TO 8" CI/PLAST
DWR	101709	COUPLING, FERNCO 8" CLAY TO 8" CLAY
DWR	101710	COUPLING, FERNCO 8" CON TO 8" CON

DWR	101711	COUPLING, FERNCO 8" DIP TO 6" DI/PL
DWR	101712	COUPLING, FERNCO 8" DIP TO 8" PLAST
DWR	101713	COUPLING, FERNCO 8" DIP/AC TO 8" CLAY
DWR	101714	COUPLING, FERNCO 8" PL/C.I. TO PL/C.I.
DWR	101715	COUPLING, GALV 1 1/2"
DWR	101716	COUPLING, DRESSER 1 1/2" X 5" LONG
DWR	101717	COUPLING, GALV 1 1/4"
DWR	101718	COUPLING, DRESSER 1 1/4" X 5" LONG
DWR	101719	COUPLING, GALV 1"
DWR	101720	COUPLING, GALV 1/2" THD
DWR	101721	COUPLING, DRESSER GALV 1/2" X 5" COMP
DWR	101722	COUPLING, GALV 1/4" COUPLING
DWR	101724	COUPLING, GALV 2 1/2"
DWR	101725	COUPLING, GALV 2"
DWR	101727	COUPLING, DRESSER 2" X 5" LONG
DWR	101728	COUPLING, GALV 3/4" THD
DWR	101730	COUPLING, PACK JOINT 1" CTS X 3/4 PE
DWR	101731	COUPLING, PACK JOINT 1" PVC PIPE
DWR	101732	COUPLING, PACK JOINT 3/4" PEP PIPE
DWR	101734	COUPLING, PVC SCH 35 6"
DWR	101735	COUPLING, PVC SCH 40 4"
DWR	101736	COUPLING, PVC SCH 40 6"
DWR	101737	COUPLING, PVC SCH 80 1 1/2"
DWR	101738	COUPLING, PVC SCH 80 1 1/4"
DWR	101739	COUPLING, PVC SCH 80 1"
DWR	101740	COUPLING, PVC SCH 80 1" THD
DWR	101741	COUPLING, PVC SCH 80 1/2"
DWR	101742	COUPLING, PVC SCH 80 2"
DWR	101743	COUPLING, PVC SCH 80 3"
DWR	101744	COUPLING, PVC SCH 80 3/4"
DWR	101745	COUPLING, PVC SCH 80 4"
DWR	101746	COUPLING, PVC SCH 80 6"
DWR	101747	COUPLING, REDUCER 2 1/2X2 PVC SCH80 GLUE
DWR	101748	COUPLING, REDUCER 3X2 PVC SCH 80 GLUE JT
DWR	101752	COUPLING, ROD FRANG A D 4 1/4" MARK 73
DWR	101753	COUPLING, ROD FRANG A D 5 1/4" B-62-B
DWR	101754	COUPLING, ROD FRANGI A D 5 1/4" B-84-B
DWR	101755	COUPLING, ROD KENNEDY K81A 5 1/4"
DWR	101756	COUPLING, ROD MET 250 5 1/4 26
DWR	101757	COUPLING, ROD NON FRANG M & H 4 1/4"
DWR	101759	COUPLING, TRANS 10" X 14" LG, DI TO AC
DWR	101760	COUPLING, TRANS 12" X 14" LG, DI TO AC

DWR	101761	COUPLING, TRANS 16" X 14" LG, DI TO AC
DWR	101763	COUPLING, TRANS 4" X 14" LG, DI TO AC
DWR	101765	COUPLING, TRANS 6" X 14" LG, DI TO AC
DWR	101767	COUPLING, TRANS 8" X 14" LG, DI TO AC
DWR	101770	COUPLING, UNION 1" 3 PC COMP X COMP
DWR	101771	COUPLING, UNION 3/4" 3 PC COMP X COMP
DWR	101772	COUPLING, ROD VALVE (Frang) MET 250 M94
DWR	101773	COUPLING, VALVE ROD ASSEMBLY CLOW MED
DWR	101774	COUPLING, W/HOSE 1" FEM NPSM THD W/S
DWR	101775	COUPLING, W/HOSE 1" MALE NPSM THD
DWR	101776	COUPLING, W/HOSE 3/4" FEM NPSM THD W/S
DWR	101777	COUPLING, W/HOSE 3/4" FEM SW/BIB THD
DWR	101778	COUPLING, W/HOSE 3/4" MALE HOSE BIB THD
DWR	101779	COUPLING, W/HOSE 3/4" MALE NPSM THD
DWR	101780	COUPLING, Y COMP 1"X 3/4" X 3/4" CTS
DWR	101782	COVER, MANHOLE BOLT DOWN YARD
DWR	101783	COVER, MANHOLE NON-BOLT DOWN YARD
DWR	101816	CUP, HOLDER, 7 OZ, PAPER CONES
DWR	101818	CUP, PAPER WATER 7OZ 250CT
DWR	101822	CURB STOP, 1" COMP X MET COUP W/WING
DWR	101823	CURB STOP, 1" FIP X COMP W/LOCKWING
DWR	101824	CURB STOP, 1"FIP X 1"FIP T-HEAD W/LOCK
DWR	101825	CURB STOP, 3/4" FIP T-HEAD W/LOCKWING
DWR	101826	CURB STOP, 3/4" FIP X COMP W/LOCKWING
DWR	101827	CURB STOP, COMBO 3/4" COMP X MET COUP
DWR	101828	CUTTER SHELL, 11/16 FOR 3/4" TAP DMSC-3
DWR	101837	DAMP MOPPING, ALL PURPOSE 1GAL
DWR	101843	DEGREASER, SOAP SOLVENT, INDUSTRIAL 55GL
DWR	101844	DEICER, ICE MELT SPRAY 11.5 OZ
DWR	101847	DEODORANT, METER MIST AEROSOL SPRAY 70Z
DWR	101854	Detergent, Dishwashing Dawn, 38 oz.
DWR	101855	DETERGENT, GERMICIDAL 1GAL
DWR	101856	DETERGENT, HEAVY DUTY ALL PURPOSE 1GAL
DWR	101870	DIAPER, STANDARD 48" LCP L301
DWR	101872	DIAPER, WIDER 48" LCP
DWR	101893	DIPPER, SAMPLE 3' HANDLE 4" DIA 10CM
DWR	101894	DIPPER, SAMPLE POLY 12' 2-PC HANDLE 10CM
DWR	101902	DISINFECTANT, DEODORANT AEROSOL 20OZ
DWR	101924	DISPENSER, GO JO PLASTIC CARTRIDGE 4.5LB
DWR	101929	DISPENSER, TAPE
DWR	101930	DISPENSER, TEST DPD FREE CHLORINE 25MM
DWR	101932	DOG REPELLENT, HALT SPRAY 1.5OZ

DWR	101935	DOOR HANGER, SSES DIV,GREEN, 50PKS
DWR	101936	DOOR HANGER, WATER DIV,GREEN PKS/50
DWR	101939	DRAIN RING, REPAIR KIT M & H 5 1/4"
DWR	101958	DUST MOP HEAD, 24" PAD ONLY 12CT
DWR	101963	DUSTER, LAMBS WOOL, 42" TELSC. HANDLE
DWR	101967	DYE, LEAK DETECTION KITS (ISSUE BY CASE)
DWR	101968	DYE, TRACING TABLET FLUOR RED 200CT
DWR	101969	EAR MUFF, HEADBAND MIN 20 DB
DWR	101970	EAR PLUG, DISPOSABLE TAPERED 100CT
DWR	101972	EAR PLUG, REUSE TRIPLE FLANGE W BX
DWR	101978	BEND, 1" 90 DEG NPT 150LB 304S/S
DWR	101979	BEND, 1/2" 90 DEG NPT 150LB 304S/S
DWR	101980	BEND, 1/4" 90 DEG NPT 150LB 304S/S
DWR	101981	BEND, 1/8" 90 DEG NPT 150LB 304S/S
DWR	101982	BEND, 2" 90 DEG NPT 150LB 304S/S
DWR	101983	BEND, 3" 90 DEG NPT 150LB 304S/S
DWR	101984	BEND, 3/8" 90 DEG NPT 150LB 304S/S
DWR	101985	BEND, GALV 1 1/2" 45 DEGREE PIPE
DWR	101986	BEND, GALV 1 1/2" 90 DEGREE PIPE
DWR	101987	BEND, GALV 1 1/4" ELBOW 45 DEG PIPE
DWR	101988	BEND, GALV 1 1/4" ELBOW 90 DEG PIPE
DWR	102040	ENVELOPES CLASP 10" X 13" (100 ct)
DWR	102047	EPOXY, PREDCO KIT
DWR	102054	EROSION CONTROL MAT, STRAW 8' X 112.5'
DWR	102057	EXTENSION, 4 1/2 X 12" A D MARK 73
DWR	102058	EXTENSION, 4 1/2 X 12" KENNEDY K11
DWR	102059	EXTENSION, 4 1/2 X 12" M & H VO ACC
DWR	102060	EXTENSION, 4 1/2 X 12" MUELLER ACC/KIT
DWR	102062	EXTENSION, 5 1/4 X 12"M & H, VO 129
DWR	102063	EXTENSION, 5 1/4 x 12" A D B62B ACC
DWR	102064	EXTENSION, 5 1/4 X 12" CLOW MED ACC
DWR	102065	EXTENSION, 5 1/4 X 12" KENNEDY K10B
DWR	102066	EXTENSION, 5 1/4 X 12" KENNEDY K81A
DWR	102067	EXTENSION, 5 1/4 X 12" M & H, VO 6 HOLE
DWR	102068	EXTENSION, 5 1/4 X 12" MET 250 TAPERED
DWR	102069	EXTENSION, 5 1/4 X 12 MET 250 M94 STRAIT
DWR	102070	EXTENSION, 5 1/4 X 12" MUELLER ACC/KIT
DWR	102071	EXTENSION, 5 1/4 X 24" A D B62B ACC
DWR	102072	EXTENSION, 5 1/4 X 24" MET 250
DWR	102073	EXTENSION, 5 1/4 X 48" M & H 129
DWR	102076	EXTENSION, 5 1/4 X 6" MET 250 ACC/KIT
DWR	102079	EXTENSION, 5 1/4" X 24" MUELLER ACC/KIT

DWR	102081	EYE WASH, 1 OZ Bottle
DWR	102099	FENCE, BARRIER FL/OR 48" X 100' W STKS
DWR	102133	FILTER, QUICK-CUT SAW
DWR	102134	FILTER, RESPIR HEPA NORTH N7500-8 144CT
DWR	102135	FILTER, RESPIR WELDING NORTH 75SCP100
DWR	102137	FILTER, SUSP SOLIDS 21 CM CIRCLES 100CT
DWR	102140	FILTER, TTL SOLIDS 4X4 GLASS FIBER SAMP
DWR	102145	FIRE EXTINGUISHER, 2.58LB DRY CHEM
DWR	102148	FIRE HYDRANT 3-WAY,5 1/4"
DWR	102152	FIRST AID KIT, REGULAR SIZE METAL BOX
DWR	102153	FISHTAPE, 1/8" X 100' STEEL W CASE
DWR	102160	CAP, GALV 1 1/2"
DWR	102168	FIX-A-FLAT, INSTANT TIRE INFLATOR 12OZ
DWR	102182	FLAG, HAND FLU ORANGE 24" X 24" W/36"
DWR	102203	FLANGE ADAPTOR, 10" 10.70-12.00, 260PSI
DWR	102204	FLANGE ADAPTOR, 10" DIP 150, LG COLLAR
DWR	102205	FLANGE ADAPTOR, 4" 4.25-5.11 175PSI
DWR	102207	FLANGE ADAPTOR, 6" 6.42-7.68 , 175PSI
DWR	102208	FLANGE ADAPTOR, 6" DIP 150 LG COLLAR
DWR	102209	FLANGE, ADA PTER COUPLING RESTRAIN 6"
DWR	102210	FLANGE, ADAPTER, COUPLING RESTRAIN 8"
DWR	102211	FLANGE, ADAPTOR, 8" 8.54-9.84 175PSI
DWR	102212	FLANGE, ADAPTOR, 8" DIP 150 LG COLLAR
DWR	102213	FLANGE, BLIND 10",STEEL
DWR	102214	FLANGE, BLIND 12", STEEL
DWR	102215	FLANGE, BLIND 14", STEEL
DWR	102216	FLANGE, BLIND 3" 4 HOLE, STEEL
DWR	102217	FLANGE, BLIND 4", STEEL
DWR	102218	FLANGE, BLIND 4" W/ 2"TAP, STEEL
DWR	102219	FLANGE, BLIND 6" 8 HOLE, STEEL
DWR	102220	FLANGE, BLIND 8", STEEL
DWR	102221	FLANGE, GALV 2" THD 4 BOLT
DWR	102222	FLANGE, METER 1 1/2" F/ FACE W/GS B/NTS
DWR	102223	FLANGE, METER 2" F/FACE W/GS B/NTS
DWR	102224	FLANGE, PVC SCH 80 2" 4 BOLT
DWR	102225	FLANGE, PVC SCH 80 3" 4 BOLT
DWR	102226	FLANGE, PVC SCH 80 4" 8 BOLT
DWR	102227	FLANGE, PVC SCH 80 6" 8 BOLT
DWR	102228	FLANGE, SAFETY REPAIR 5 1/4" CLOW
DWR	102232	FLASHLIGHT, 6V LANT SPRING TERMINALS
DWR	102236	FLAT TOP, M/H 1' W 2' OFFSET ENTR 4' DIA
DWR	102237	FLAT TOP, MANHOLE 60" 1' W PRECAST R/C

DWR	102246	FLOAT, HAND MAG METAL, 16" LG X 4 1/2 W
DWR	102255	FLUID, BRAKE GUNK M44-12 12CT
DWR	102258	FLUID, POWER STEERING R-GENT PSF12
DWR	102260	FLUID, TRANSMISSION AUTOM DEXTR III 12CT
DWR	102280	FOLDER, LEGAL- MANILLA
DWR	102284	FOLDER, LETTER MANILA 100CT
DWR	102304	FORM, ENTRY ROUTINE CONFINED SPACE 50CT
DWR	102344	OIL MIXTURE, 2-CYCLE STIHL 6.4FL.OZ
DWR	102346	FUNNEL, PLASTIC- LG 10"X1 5/8" WIRE FILT
DWR	102347	FUNNEL, PLASTIC-MED 6 3/8" LARGE END
DWR	102348	FUNNEL, PLASTIC- SMALL 4 1/4"
DWR	102386	GAS CAN SPOUT, FOR 2 1/2 AND 5GAL
DWR	102387	GAS CAN, 2 1/2GL STEEL VENTED W/ NOZZLE
DWR	102388	GAS CAN, 5GL STEEL VENTED W/ NOZZLE
DWR	102402	GASKET, BELL 10"
DWR	102404	GASKET, BELL 14"
DWR	102405	GASKET, BELL 16"
DWR	102406	GASKET, BELL 18"
DWR	102407	GASKET, BELL 20"
DWR	102408	GASKET, BELL 24"
DWR	102409	GASKET, BELL 3"
DWR	102410	GASKET, BELL 30"
DWR	102411	GASKET, BELL 36"
DWR	102412	GASKET, BELL 4"
DWR	102413	GASKET, BELL 48"
DWR	102414	GASKET, BELL 6"
DWR	102415	GASKET, BELL 8"
DWR	102417	GASKET, CLOSURE 48" LCP
DWR	102418	GASKET, FLANGE 16" FF RUBBER BOLT KIT
DWR	102429	GASKET, M & H 4 1/2" 129T
DWR	102430	GASKET, STAND PIPE RUB M & H 5 1/4" 129T
DWR	102431	GASKET, FLANGE 10" FF RUBBER W BOLT KIT
DWR	102432	GASKET, FLANGE 12" FF RUBBER W BOLT KIT
DWR	102433	GASKET, FLANGE 14" FF RED RUBBR W BOLT K
DWR	102434	GASKET, FLANGE 18" FF RUBBER W BOLTS
DWR	102435	GASKET, FLANGE 20" FF RUBBER W BOLTS
DWR	102436	GASKET, FLANGE 24" FF RUBBER W BOLTS
DWR	102437	GASKET, FLANGE 3" FF RUBBER W BOLT KIT
DWR	102438	GASKET, FLANGE 30" FF RUBBER W BOLTS
DWR	102439	GASKET, FLANGE 36" FF RUBBER W BOLTS
DWR	102440	GASKET, FLANGE 4" FF RUBBER W BOLT KIT
DWR	102441	GASKET, FLANGE 6" FF RUBBER W BOLT K FT

DWR	102442	GASKET, FLANGE 8" FF RUBBER W BOLT K FT
DWR	102444	GASKET, LAYING LCP 21/32" 48" L301
DWR	102445	GASKET, M/H CVR 1/8" 22 5/8 ID 25 1/2 OD
DWR	102446	GASKET, METER FLANG 1 1/2" FULL FACE /HO
DWR	102447	GASKET, METER FLANGE 1 1/2" DROP IN
DWR	102448	GASKET, METER FLANGE 2" DROP IN
DWR	102449	GASKET, METER FLANGE 2" FULL FACE W/HO
DWR	102450	GASKET, MJ 10"
DWR	102451	GASKET, MJ 10" TRANSITION
DWR	102452	GASKET, MJ 12"
DWR	102453	GASKET, MJ 12" TRANSITION
DWR	102454	GASKET, MJ 14"
DWR	102455	GASKET, MJ 14" TRANSITION
DWR	102456	GASKET, MJ 16"
DWR	102457	GASKET, MJ 16" TRANSITION
DWR	102458	GASKET, MJ 18"
DWR	102459	GASKET, MJ 20"
DWR	102461	GASKET, MJ 3"
DWR	102462	GASKET, MJ 3" TRANSITION
DWR	102463	GASKET, MJ 30"
DWR	102464	GASKET, MJ 36"
DWR	102465	GASKET, MJ 4"
DWR	102466	GASKET, MJ 4" TRANSITION
DWR	102467	GASKET, MJ 42"
DWR	102469	GASKET, MJ 6"
DWR	102470	GASKET, MJ 6" TRANSITION
DWR	102471	GASKET, MJ 8"
DWR	102472	GASKET, MJ 8" TRANSITION
DWR	102473	GASKET, PUMPER NOZZLE 4 1/2 A D MARK 73
DWR	102474	GATORADE
DWR	102478	GAUGE, PRESS LIQ FILLED SS 300PSI 1/4 "
DWR	102482	GLAND, 24"
DWR	102483	GLAND, 30"
DWR	102484	GLAND, 36"
DWR	102485	GLAND, RETAINER 10" MJ DI MEGA LUG
DWR	102487	GLAND, RETAINER 12" MJ DI MEGA LUGG
DWR	102488	GLAND, RETAINER 14" MJ DI MEGA LUGG
DWR	102491	GLAND, RETAINER 16" MJ DI MEGA LUGG
DWR	102492	GLAND, RETAINER 18" MJ DI
DWR	102493	GLAND, RETAINER 20" MJ DI MEGA LUG STAR
DWR	102494	GLAND, RETAINER 24" MJ DI MEGA LUG
DWR	102495	GLAND, RETAINER 3" MJ DI BOLT-ON

DWR	102496	GLAND, RETAINER 3" MJ DI MEGA LUGG
DWR	102497	GLAND, RETAINER 30" MJ DI MEGA LUG STAR
DWR	102498	GLAND, RETAINER 36" MJ DI MEGA LUG STAR
DWR	102500	GLAND, RETAINER 4" MJ DI MEGA LUG
DWR	102501	GLAND, RETAINER 42" MJ DI MEGA LUG
DWR	102502	GLAND, RETAINER 48" MJ DI MEGA LUG
DWR	102503	GLAND, RETAINER 6" DI MEGA LUGG
DWR	102504	GLAND, RETAINER 8" DI MEGA LUGG
DWR	102505	GLAND, SPLIT 6" ANCHOR DI
DWR	102506	GLAND, SPLIT 8"
DWR	102507	GLAND, SPLIT MEGA LUG 10" MJ DI EBAA
DWR	102508	GLAND, SPLIT RETAINER 10" MJ DI
DWR	102510	GLAND, SPLIT RETAINER 18" MJ DI MEGA LUG
DWR	102511	GLAND, SPLIT RETAINER 6" MEGA LUGG
DWR	102512	GLAND, SPLIT RETAINER 8" DI MEGA LUGG
DWR	102516	GLASSES, SAFETY GREY SHADED
DWR	102521	GLOVES, BROWN JERSEY COTTON L LF-RT
DWR	102525	GLOVES, LEATHER DRIVING L
DWR	102526	GLOVES, LEATHER DRIVING M
DWR	102527	GLOVES, LEATHER DRIVING SM
DWR	102528	GLOVES, LEATHER DRIVING XL
DWR	102530	GLOVES, NITRILE DISPOS LARGE 6.5 MIL
DWR	102531	GLOVES, NITRILE DISPOS MED 6.5 MIL
DWR	102532	GLOVES, NITRILE DISPOS SM CHEM RESIST
DWR	102533	GLOVES, NITRILE DISPOS XL
DWR	102535	GLOVES, PVC NITRILE MULTI-DIPPED CHEM
DWR	102537	GLOVES, WORK L DOUBLE PALM LEATHER
DWR	102566	GOGGLES, CLEAR PLASTIC DIRECT VENT
DWR	102570	GRASS SEED, ANNUAL RYE 50LB
DWR	102571	GRASS SEED, BERMUDA, HULLED 50LB
DWR	102572	GRASS SEED, FESCUE, KENTUCKY 31 50LB
DWR	102573	GRASS SEED, FESCUE, REBEL 2, 50LB
DWR	102574	GRATE & FRAME, HEAVY DUTY YARD
DWR	102575	GRATE, 24" X 36" CAST IRON
DWR	102578	GREASE, FITTING 1/8" NPT, SPEC EX SHORT
DWR	102579	GREASE GUN, HAND
DWR	102581	GREASE, LITHOPLEX 2 MP 10.1OZ
DWR	102587	GREASE, WHITE FOOD GRADE TUBE
DWR	102588	GREASE, ZENIPLEX 1 14OZ
DWR	102589	GRIPPER, 3/4" COPPER PULLERS CABLE EYE
DWR	102619	HAMMER, BRICK 16OZ
DWR	102620	HAMMER, DOUBLE FACE 2LB

DWR	102621	HAMMER, SLEDGE 8 LB FIBERGLASS HANDLE
DWR	102631	HANDLE, 16" BUSH BLADE AXE 40" 4-BLT WD
DWR	102634	HANDLE, DUST MOP 60"
DWR	102640	HANDLE, STREET PUSH BROOM 60" TAPPERED
DWR	102646	HANDLE, WET MOP HEAD FIBERGLASS 60"
DWR	102681	HAT, HARD WHITE FULL BRIM
DWR	102682	HAT, HARD WHITE W SURE LOCK RATCHET
DWR	102694	HEADWALL, 18" CONC W/NIPPLES YARD
DWR	102698	HEADWALL, 30" HOLE
DWR	102700	HEADWALL, 54" HOLE
DWR	102701	HEADWALL, 42" HOLE
DWR	102702	HEADWALL, 48" WITH NIPPLES yard
DWR	102703	HEADWALL, 60" HOLE
DWR	102713	HERBICIDE, SUPER KILLZ ALL 2.5GAL lobuil
DWR	102736	HOOK S 3"
DWR	102737	HOOK, 3/8 CHAIN CLEVIS GRAB
DWR	102739	HOOK, MANHOLE SMALL WOOD T-HANDLE
DWR	102740	HOOK, METER LID STEEL 1/4" X 30" T-HANDL
DWR	102742	HOOK, REFUSE (Large) 4 TINES, 60" HANDLE
DWR	102745	GASKET, HOSE NOZZLE 2 1/2, A D
DWR	102746	HOSE NOZZLE O-RING CLOW T2400952 M40
DWR	102761	HOSE BIB, 3/4 " WATER SPIGOT
DWR	102762	HOSE, DISCHARGE 3" PVC LAY FLAT BLUE
DWR	102763	HOSE, FIREHOSE 1 1/2" X 50' ROLL 250PSI
DWR	102765	HOSE, HYDROJET-1" 3000PSI 500' ROLL
DWR	102766	HOSE, RUBBER 1" 200PSI REINFORCD PE 500'
DWR	102767	HOSE, RUBBER 3/4" 200PSI REINFOR PE
DWR	102768	HOSE, RUBBER ASSEMBLY LINCOLN 5812
DWR	102772	HOUSING COVER, AD 4 1/2" MK-73-1
DWR	102773	HOUSING COVER, AD 5 1/4" B-62-B
DWR	102779	HYDRAULIC FLUID, UNIVERSAL 5GAL lobuil
DWR	102780	HYDROGEN PEROXIDE, 2 oz. SPRAY
DWR	102903	INSECT REPELLENT 8 OZ SPRAY
DWR	102904	INSECT REPELLENT, WRIST BAND
DWR	102908	INSECTICIDE, ANT POISON, 2LB CAN
DWR	103014	JUG, PLASTIC W/CAP 1GAL
DWR	103017	KENT SEAL ROLL (issue by the case)
DWR	103019	KEY, GATE VAL TELESCOP,8', 2" FLEX-HEAD
DWR	103020	KEY, WATER CURB STOP 1 1/2" 5FT T-HANDL
DWR	103021	KEY, WATER METER 5/8"X27 CURB T-HANDL
DWR	103024	KIT, COLLISION KENNEDY 5 1/4" K10B
DWR	103027	KIT, COLLISION REPAIR KENN K81A 5 1/4"

DWR	103028	KIT, COLL REPAIR M&H 4 1/2" 129T 1994UP
DWR	103029	KIT, COLLISION REPAIR M & H 5 1/4" 129T
DWR	103030	TRAFFIC REPAIR KIT B62B 5-1/4 AMER. DARL
DWR	103031	KIT, EXTENSION ACC KENNEDY K81A 5 1/4/6"
DWR	103033	KIT, EXTENSION ACC MUELLER 4 1/2/12
DWR	103035	KIT, EXTENSION ACC MUELLER 5 1/4/6"
DWR	103036	KIT, MAIN VALVE SEAT REPAIR CLOW/5 1/4
DWR	103043	KIT, SAFETY REPAIR CLOW MEDALLION5 1/4"
DWR	103044	STEM, CLOW MEDALLION 5 1\4"
DWR	103045	KIT, SAFETY REPAIR, MET 250 M94 5 1/4"
DWR	103046	KIT, SAFETY REPAIR, MET 250,5 1/4"OLD/ST
DWR	103047	KIT, SAFETY REPAIR, MUELLER 4 1/2"
DWR	103050	KNIFE, PUTTY METAL BLADE 1 1/4" STIFF
DWR	103164	LIME HYDRATE, 50 LB. BAGS
DWR	103178	LINERSWINTER, HARD HAT, QUILTED
DWR	103183	CORRECTION TAPE, WHITE PACK OF 2
DWR	103186	LOAD BINDERS, RATCHET 3/8" GRAB-HOOKS
DWR	103192	LOCK NUT, OPER NUT, 4 1/2" M & H 129
DWR	103193	LOCKNUT, KENNEDY 5 1/4" K81A-LEF/THDS
DWR	103194	LOCKNUT, M & H 5 1/4" 129
DWR	103195	LOCKNUT, OPERATING 4 1/2" M & H 129
DWR	103199	LOCKOUT, HASP 1 1/2" ELECT. MULTI LOCK
DWR	103200	LOCKOUT, HASP 1" ELECT. MULTI LOCK
DWR	103201	LOCKS, BRASS M REPAIR W/4" SHAk 1 1/2"
DWR	103202	LOCKS, BRASS METER SERV 1 1/2"
DWR	103204	LOCKTIGHT, PERMATEX 50ML
DWR	103208	LOWER STEM, CLOW M2202374 M12
DWR	103209	LOWER VALVE PLATE, CLOW F1600829 M24
DWR	103212	OIL, GEAR 85W-140, MULTI-PURPOSE SAE
DWR	103213	LUBRICANT, SILICONE 20OZ 12CT
DWR	103221	MAILBOX POST, CEDAR
DWR	103222	MAILBOX, STANDARD BLACK 1
DWR	103223	MAIN SEAT VALVE, MUELLER 4 1/2"
DWR	103224	MANHOLE CONE, 2' ECCENTRIC 4' DIA yard
DWR	103225	MANHOLE CONE, 3' ECCENTRIC 4' DIA yard
DWR	103226	MANHOLE CONE, 3' W RING P-CAST yard
DWR	103227	MANHOLE COVER, W/FISH LOGO yard
DWR	103228	MANHOLE RING & COVER, BOLT DOWN yard
DWR	103229	MANHOLE RING & COV, NON-BLT DOWN yard
DWR	103230	MANHOLE RING, 1033D
DWR	103231	MANHOLE LID RISER, 2" w/ set screw
DWR	103232	MANHOLE LID RISER, 1 1/2" w/ set screw

DWR	103233	MANHOLE RISER, 1 foot SECTION 4' DIA
DWR	103234	MANHOLE RISER, 2'SECTION 4' DIA
DWR	103235	MANHOLE RISER, 3' SECTION 4' DIA
DWR	103236	MANHOLE RISER, 60" X 5' ROUND
DWR	103238	MANHOLE, 2' BOTTOM SECTION 4' DIA
DWR	103239	MANHOLE, 3' BOTTOM SECTION 4' DIA
DWR	103247	MARKER, DRY ERASE BLUE
DWR	103251	MARKER, HIGHLIGHT BLUE
DWR	103252	MARKER, HIGHLIGHT GREEN
DWR	103253	MARKER, HIGHLIGHT ORANGE
DWR	103255	MARKER, HIGHLIGHT YELLOW
DWR	103262	MARKER, MEAN STREAK WHITE
DWR	103263	MARKER, MEAN STREAK YELLOW
DWR	103266	MARKER, KING BLACK CHISEL PT
DWR	103268	MARKER, SHARPIE BLACK, Ultra Fine Point
DWR	103270	MARKER, SHARPIE BLACK Fine Point
DWR	103273	MARKER, UNI PAINT BLUE
DWR	103274	MARKER, UNI PAINT RED
DWR	103275	MARKER, UNI-PAINT MED LINE WHITE
DWR	103284	MASK, RESPIRAT DISPOS NOSE-CLIP 2OZ 20CT
DWR	103299	METER ADAPTER, 3/4", MAC #10J23
DWR	103300	METER BOX LID, 15"X18" SOLID CAST IRON
DWR	103301	METER BOX, 15"X18"X12" PLASTIC W/CI LID
DWR	103302	METER BOX, 24"X18"X12" PLASTIC W/CI LID
DWR	103306	METER BOX, EXTENSION PLASTIC 6"
DWR	103312	METER,RESETTER11/2"X18"H,W/11 V,11/23"LL
DWR	103313	METER, RESETTER 1 1/2"X24"H,W/2 V,13"LL
DWR	103314	METER, RESETTER 1"X12"H,W10 3.4"LL
DWR	103315	METER, RESETTER 2"X18"H,W/2" V, 17"LL
DWR	103316	METER, RESETTER 2"X24"H,W/2" V, 17"LL
DWR	103317	METER, RESETTER 3/4"X12"H,W/ 7'LL
DWR	103318	METER, RESETTER, 3/4X 7"H,W/7"LL
DWR	103319	CURB STOP,1 1/2"FIP X 1 1/2" FLBLW/LW
DWR	103320	CURB STOP, 2" FIPX 2" FLBALW/LOCKW
DWR	103321	METER, WATER 1 1/2" POS DISP FL
DWR	103322	METER, WATER 1" POS DISP
DWR	103323	METER, WATER 1" POS DISP (REUSE)
DWR	103324	METER, WATER 2" POS DISP (FL)
DWR	103325	METER, WATER 3" COMP W/ENCODREG
DWR	103326	METER, WATER 3/4" SHORT POS.DISPL.
DWR	103327	METER, WATER 4" COMPW/ENCODREG
DWR	103329	METER, WATER 6" FIRE LINEW/ENCODREG

DWR	103331	METER, WATER 8" FIRE LINE W/ENCODREG
DWR	103346	MOP, DUST FRAME 5" X 24" 12CT
DWR	103350	MOP, HEAD WET 4-PLY LAUNDERABLE
DWR	103356	MORTAR MIX, TYPE N 72LB
DWR	103373	NET, SKIMMER-SURFACE DEEP BAG 20"X6"X12"
DWR	103374	NET, SKIMMER-SURFACE FLAT BAG 12" X 15"
DWR	103377	NIPPLE 1 1/2" X 4" NPT,150LB 304 S/S
DWR	103378	NIPPLE 1" X 6" NPT, 150LB 304S/S
DWR	103379	NIPPLE 1" X CLOSE NPT,150LB 304S/S
DWR	103380	NIPPLE 1/2" X 4" NPT,150LB 304S/S
DWR	103381	NIPPLE 1/2" X CLOSE NPT,150LB 304S/S
DWR	103382	NIPPLE 1/4" X 2" NPT,150LB 304S/S
DWR	103383	NIPPLE 1/4" X 4",150LB 304 S/S
DWR	103384	NIPPLE 1/4" X CLOSE NPT,150LB 304S/S
DWR	103385	NIPPLE 1/8" X 3" NPT,150LB 304 S/S
DWR	103386	NIPPLE 1/8" X CLOSE NPT,150LB 304 S/S
DWR	103387	NIPPLE 2" X 8" NPT,150LB 304S/S
DWR	103388	NIPPLE 2" X CLOSE NPT,150LB 304S/S
DWR	103389	NIPPLE 3" X 10" NPT,150LB 304S/S
DWR	103390	NIPPLE 3" X CLOSE NPT,150LB 304S/S
DWR	103391	NIPPLE 3/8" X 3" NPT,150LB 304 S/S
DWR	103392	NIPPLE 3/8" X CLOSE NPT,150LB 304 S/S
DWR	103393	NIPPLE, 10" FL X 3' PE DIP,COATED INSIDE
DWR	103394	NIPPLE, 12" FL X 3' PE DIP,COATED INSIDE
DWR	103395	NIPPLE, 16" FL X 3' PE DIP,COATED INSIDE
DWR	103396	NIPPLE, 4" FL X 3' PE DIP, COATED INSIDE
DWR	103397	NIPPLE, 6" FL X 3' PE DIP, COATED INSIDE
DWR	103398	NIPPLE, 8" FL X 3' PE DIP, COATED INSIDE
DWR	103400	NIPPLE, GALV 1 1/2" X 3" PIPE
DWR	103401	NIPPLE, GALV 1 1/2" X 4" PIPE
DWR	103402	NIPPLE, GALV 1 1/2" X CLOSE PIPE
DWR	103403	NIPPLE, GALV 1 1/4" X 2" PIPE THD
DWR	103404	NIPPLE, GALV 1 1/4" X 3" PIPE
DWR	103405	NIPPLE, GALV 1 1/4" X 4" PIPE
DWR	103406	NIPPLE, GALV 1 1/4" X 6" PIPE
DWR	103407	NIPPLE, GALV 1" X 2" PIPE THD
DWR	103408	NIPPLE, GALV 1" X 4" PIPE THD
DWR	103409	NIPPLE, GALV 1" X 6" PIPE THD
DWR	103410	NIPPLE, GALV 1" X CLOSE PIPE
DWR	103411	NIPPLE, GALV 1/2" X 4" PIPE
DWR	103412	NIPPLE, GALV 1/2" X 6" PIPE
DWR	103413	NIPPLE, GALV 1/4" X 4" PIPE

DWR	103414	NIPPLE, GALV 1/4" X 6" PIPE
DWR	103417	NIPPLE, GALV 1/8" X 6" PIPE
DWR	103418	NIPPLE, GALV 1/8" X 8" PIPE
DWR	103419	NIPPLE, GALV 2 1/2" X 12" PIPE
DWR	103420	NIPPLE, GALV 2 1/2" X 2" PIPE
DWR	103422	NIPPLE, GALV 2 1/2" X 4" PIPE
DWR	103423	NIPPLE, GALV 2 1/2" X 6" PIPE
DWR	103424	NIPPLE, GALV 2" X 3" PIPE
DWR	103425	NIPPLE, GALV 2" X 4" PIPE
DWR	103426	NIPPLE, GALV 2" X 6" PIPE
DWR	103427	NIPPLE, GALV 2" X CLOSE, PIPE
DWR	103428	NIPPLE, GALV 3/4" X 2" PIPE
DWR	103429	NIPPLE, GALV 3/4" X 24" PIPE
DWR	103430	NIPPLE, GALV 3/4" X 3" PIPE
DWR	103431	NIPPLE, GALV 3/4" X 4" PIPE
DWR	103432	NIPPLE, GALV 3/4" X 6" PIPE
DWR	103433	NIPPLE, GALV 3/4" X CLOSE PIPE
DWR	103434	NIPPLE, GALV 3/8" X 2" PIPE
DWR	103435	NIPPLE, GALV 3/8" X 4" PIPE
DWR	103436	NIPPLE, MALE QUICK DISCONNECT 1/4"
DWR	103437	NIPPLE, METER 3/4" X 2 1/2 " BRASS
DWR	103438	NIPPLE, METER 3/4" X 2" BRASS
DWR	103439	NIPPLE, METER 3/4" X 3" BRASS
DWR	103441	NIPPLE, PVC SCH 80 1 1/2" JAM
DWR	103442	NIPPLE, PVC SCH 80 1 1/4" JAM
DWR	103450	NOZZLE, 1" NST X 8" LG BRASS 5/16"
DWR	103463	NOZZLE, FIREHOSE 1 1/2" BRASS BUMPER NST
DWR	103465	NOZZLE, FH HOSE 2 1/2" A D B62B 5 1/4"
DWR	103466	NOZZLE, FH HOSE 2 1/2" AD MARK 73 4 1/2"
DWR	103468	NOZZLE, HOSE 3/4" GHT X 6" LONG
DWR	103469	NOZZLE, CLOW 2 1/2" (Outlet) 5 1/4"
DWR	103471	NOZZLE, FH PUMPER 4 1/2" AD MARK 73
DWR	103480	NUT DRIVER, 3/8" NUT PLASTIC HANDLE
DWR	103481	NUT DRIVER, 5/16" PL HNDLE WTRPRF HVY DT
DWR	103482	NUT GASKET ASSEMBLY, 1" FORD NGF4
DWR	103483	NUT GASKET ASSY, 1" CURBSTOP 3/8" SCREW
DWR	103484	NUT PACK GASKET ASSY, 3/4" 3/8" OLD FORD
DWR	103486	NUT, 1/2" BRASS HEX COARSE THD
DWR	103488	NUT, 5/8 T0400072 M29 CLOW
DWR	103491	NUT, CAP M & H 929 P.N. 46
DWR	103493	NUT, COMPRESSION 3/4" BRASS AY McDONALD
DWR	103494	NUT, HEX 3/4" MJ BOLTS

DWR	103495	NUT, HEX 7/8"
DWR	103496	NUT, HEX COARSE THD 1/2"
DWR	103497	NUT, HEX COARSE THD ZINC 7/16"
DWR	103498	NUT, HEX GRADE 5 ZINC 10 3/4"
DWR	103499	NUT, HEX GRADE 5 ZINC 16 3/8"
DWR	103500	NUT, HEX GRADE 5 ZINC 20 1/4"
DWR	103501	NUT, HEX GRADE 5 ZINC COARS THD 1 1/2"
DWR	103502	NUT, HEX GRADE 5 ZINC COARS THD 1 1/4"
DWR	103503	NUT, HEX GRADE 5 ZINC COARS THD 11 5/8"
DWR	103504	NUT, HEX GRADE 5 ZINC COARS THD 5/16"
DWR	103505	NUT, HEX GRADE 5 ZINC COARS THD 9/16"
DWR	103506	NUT, HOLD DOWN METROPOLITAN 250 5 1/4"
DWR	103507	NUT, OPERATING 4 1/2" A D MARK 73
DWR	103508	NUT, OPERATING 5 1/4" A D B62B
DWR	103509	NUT, OPERATING 5 1/4" KENNEDY K81A
DWR	103510	NUT, WEATHER CAP, MET 250 5 1/4
DWR	103511	NUT, OPERATING 5 1/4" MUELLER
DWR	103512	NUT, OPERATING CLOW BRONZE M3
DWR	103513	NUT, OPERATING STEM KENNEDY K-10
DWR	103514	BEARING, THRUST-OPERATING NUT CLOW M2
DWR	103515	NUT, REVOLVING MET 250
DWR	103517	NUT, THRUST CLOW
DWR	103519	NUT, TRAVEL STOP MET 250 M94 5 1/4
DWR	103520	NUT, UPPER STEM NUT CLOW
DWR	103527	OIL LUBRICANT, BAR AND CHAIN 1GAL
DWR	103531	OIL, ABSORBENT PREMIUM 40LB
DWR	103536	OIL, HEAVY DUTY ENGINE 15W40 1QT
DWR	103538	OIL, HEAVY DUTY ENGINE 30W SAE 1QT
DWR	103541	OIL, PENETRATING W TEFLON 24OZ
DWR	103547	NUT, OPERATING 4 1/2" M & H 129T NEW
DWR	103548	NUT,OPERATING 4 1/2" M & H 129T OLD STY
DWR	103549	NUT, OPERATING 5 1/4 M&H 929
DWR	103550	NUT, OPERATING 5 1/4" M & H 129 OLD STY
DWR	103551	NUT, OPERATING 5 1/4" M & H 129T NEW SY
DWR	103553	O-RING, DRAIN RING CLOW MED
DWR	103556	O-RING, HOSE NOZZLE 2 1/2" M & H
DWR	103557	O-RING, LOWER MAIN VALVE M & H 4 1/2129T
DWR	103559	O-RING, LOWER MAIN VALVE SEAT MUELLER
DWR	103560	O-RING, PUMPER NOZZLE CLOW
DWR	103565	O-RING, SEAT INSIDE/OUT A D B62B 5 1/4
DWR	103566	O-RING, SEAT INSIDE/OUT A D MARK 73
DWR	103567	O-RING, SEAT RING MET 250 M94 5 1/4

DWR	103569	O-RING, THRUST NUT CLOW
DWR	103570	O-RING, UP MAIN VALVE SEAT KENN K81 51/4
DWR	103571	O-RING, UP MAIN VALVE SEAT MUELLER 5 1/4
DWR	103572	O-RING, VALVE ROD LOWER MET 250 5 1/4"
DWR	103574	OUTLET, 2 1/2" KENNEDY K81A
DWR	103575	NOZZLE, FH HOSE 2 1/2" M & H 129T
DWR	103576	NOZZLE, FH 2 1/2" MUELL 1978 NEW L/ H GR
DWR	103577	NOZZLE, FH 2 1/2" MUELL 1978/OLD R/H RED
DWR	103578	OUTLET, 4 1/2" CLOW MEDALLION
DWR	103579	OUTLET, 4 1/2" KENNEDY K81A
DWR	103580	NOZZLE, FH PUMPER4 1/2" M & H 129T
DWR	103581	NOZZLE, FH PUMPER 4 1/2" MUELLER A423
DWR	103588	OXYGEN, COMPRESSED GAS SIZE 200
DWR	103615	PAD, LEGAL - WH 8 1/2" x 14", 100 sht.
DWR	103619	PAD, LETTER - WH 8 1/2" x 11 3/4",100sht
DWR	103622	PAD, MEMO 3" X 5", Sprial Top, Pocket sz
DWR	103623	PAD, MEMO 5" X 7" Spiral-Poly Cov
DWR	103635	PAD, POST-IT 3" X 3" yellow (pack of 12)
DWR	103637	PAD, POST-IT 3" X 5" yellow
DWR	103646	PAD, POST-IT 4" X 6" LINED yellow
DWR	103654	PAD, SCOURING 6" X 4 1/2" GREEN 12CT
DWR	103655	PAD, SCOURING STAINLESS STEEL 12CT
DWR	103657	PAD, STENO 6" X 9" GREGG RULE
DWR	103660	PAD, VALVE BOX CONCRT 24X24X4, 9" OPENG
DWR	103661	PADDLE, STOP & SLOW PVC 18" SIGN
DWR	103737	PAINT, SPRAY BLACK INT/EXT GLOSS 12OZ
DWR	103738	PAINT, SPRAY BROWN GLOSS 12OZ
DWR	103742	PAINT, SPRAY GRAY PRIMER 12.5OZ
DWR	103743	PAINT, SPRAY GREEN MED GLOSS 12 OZ
DWR	103744	PAINT, SPRAY RED GLOSS FIRE ENGINE 12OZ
DWR	103745	PAINT, SPRAY SILVER 12OZ CAN
DWR	103747	PAINT, SPRAY UPSIDE DN FLUOR GREEN 17OZ
DWR	103748	PAINT, SPRAY UPSIDE DN FLUOR ORANGE 17OZ
DWR	103749	PAINT, SPRAY UPSIDE DN FLUORSC BLUE 17OZ
DWR	103750	PAINT, SPRAY UPSIDE DOWN PURPLE 17OZ
DWR	103751	PAINT, SPRAY UPSIDE DOWN WHITE 17OZ
DWR	103753	PAINT, SPRAY YELLOW GLOSS SAFETY 12OZ
DWR	103763	PAN, DUST PLASTIC 12CT
DWR	103835	PANTS, BDU / TACTICAL MEDIUM
DWR	103836	PANTS, BDU / TACTICAL LARGE
DWR	103837	PANTS, BDU / TACTICAL X-LARGE
DWR	103838	PANTS, BDU / TACTICAL 2X-LARGE

DWR	103839	PANTS, BDU / TACTICAL 3X-LARGE
DWR	103840	PANTS, BDU / TACTICAL 4X-LARGE
DWR	104088	TOLIET PAPER 96CT.
DWR	104096	PAPER, XEROX 8 1/2" X 14"
DWR	104097	PAPER, XEROX WHITE 11" X 17" 20
DWR	104098	PAPER, XEROX WHITE 8 1/2" X 11" 20
DWR	104099	PARAFILM, 2" X 250'
DWR	104137	PEN, BALL POINT MED BLUE, ISSUE AS BOX
DWR	104138	PEN, BALL POINT BLACK, ISSUE AS BOX
DWR	104152	PEN, GEL RETRACT BLACK ISSUE AS BOX
DWR	104153	PEN, GEL- RETRACTABLE BLUE, ISSUE AS BOX
DWR	104154	PEN, GEL RETRACT RED issue by the box
DWR	104170	PENCIL, NO. 2, (PER DOZEN ONLY)
DWR	104179	SILICONE,RTV 6B BLUE PERMATEX TUBE
DWR	104187	PICK, HAND, BLADE 1 1/2" X 30" 6LB HEAD
DWR	104191	PILLOW, CL2 FREE 100CT
DWR	104201	PIN, UPPER STEM CLOW
DWR	104203	PINE BARK, MINI NUGGETS 3 CB FT BAGS
DWR	104204	PIPE LUBE, 1GAL / 8LB 48" ECP/LCP
DWR	104205	PIPE SEC, 48"LCP SH 8.87' LL L301MK286
DWR	104206	PIPE, 1 1/2" X 20' PVC SCH 80 PL
DWR	104207	PIPE, 1 1/4" X 20' PVC SCH 80 PL
DWR	104208	PIPE, 1" X 20' PVC SCH 80 PL
DWR	104209	PIPE, 1/2" X 20 PVC SCH 80 PL
DWR	104210	PIPE, 10" X 13' PVC SCH 35 PL,GRN
DWR	104211	PIPE, 10" X 18' DI CLASS 350
DWR	104212	PIPE, 12" X 13' PVC SCH 35 PL,GRN
DWR	104213	PIPE, 12" X 18' DI CLASS 350
DWR	104214	PIPE, 14" X 18' DI CLASS 350
DWR	104216	PIPE, 16" X 18' DI CLASS 350
DWR	104217	PIPE, 18" X 18' DI CLASS 52 EPOXY
DWR	104218	PIPE, 2" X 20' PVC CLASS 200 PL W/G
DWR	104219	PIPE, 2" X 20' PVC SCH 80 PL
DWR	104220	PIPE, 20" X 20' DI CLASS 300
DWR	104221	PIPE, 24" X 18' DI CLASS 300
DWR	104222	PIPE, 3" X 18' DI CLASS 350
DWR	104223	PIPE, 3" X 20' PVC SCH 80 PL
DWR	104224	PIPE, 3/4" X 20 PVC SCH 80 PL
DWR	104225	PIPE, 30" X 20' DI CLASS 250
DWR	104226	PIPE, HDPE 36" X 20' SMOOTH INSIDE POLY
DWR	104227	PIPE, 36" X 18' DI CLASS 250
DWR	104228	PIPE, 4" X 20' DI CLASS 350

DWR	104229	PIPE, 4" X 20' DI CLASS 350,PLAIN X FL
DWR	104230	PIPE, 4" X 20' PVC SCH 40 PL
DWR	104231	PIPE, 4" X 20' PVC SCH 80 PL
DWR	104232	PIPE, 42" X 20' DI CLASS 250
DWR	104233	PIPE, HDPE 48" X 20' SMOOTH INSIDE
DWR	104234	PIPE, 48" X 20' DI CLASS 250
DWR	104235	PIPE, 6" X 14foot PVC SCH 35 PL,GRN
DWR	104236	PIPE, 6" X 18' DI CLASS 350
DWR	104237	PIPE, 6" X 18' DI CLASS 350, PLAIN X FL
DWR	104238	PIPE, 6" X 20' PVC SCH 80 PL
DWR	104239	PIPE, 8" X 13.5' PVC SCH 35 PL,GR
DWR	104240	PIPE, 8" X 12.5' PVC TRUSS W/G
DWR	104241	PIPE, 8" X 18' DI CLASS 350
DWR	104242	PIPE, 8" X 18' DI CLASS 360, PLAIN X FL
DWR	104243	PIPE, ARCH CR 16" 11"RISE X18"SPX8'
DWR	104244	PIPE, ARCH CR 18" 13 1/2"RISEX22"SPX8'
DWR	104245	PIPE, ARCH CR 24" 18"RISEX28 1/2"SPX8'
DWR	104246	PIPE, ARCH CR 30" 22 1/2"RSX36 1/4"SPX8'
DWR	104247	PIPE, ARCH CR 36" 26 5/8"RSX43 3/4"SPX8'
DWR	104248	PIPE, ARCH CR 42" 31 5/8"RSX51 1/8"SPX8'
DWR	104249	PIPE, CMP FULL RND 15" X 20' 14 gauge
DWR	104250	PIPE, CMP FULL RND 18" X 20' 14GA Alum
DWR	104252	PIPE, CMP FULL RND 24"X 20' 14GA Alum
DWR	104253	PIPE, CMP FULL RND 30"X 20' 14GA Alum
DWR	104254	PIPE, CMP FULL RND 42" X 20' 14GA Alumin
DWR	104255	PIPE, CUTTERS, 2",RIDGED
DWR	104256	PIPE, DOPE THREAD COMPOUND, PINT CAN
DWR	104257	PIPE, GALV 1 1/2" X 21'
DWR	104258	PIPE, GALV 1 1/4" X 21' JOINTS
DWR	104259	PIPE, GALV 1" X 21'
DWR	104260	PIPE, GALV 2 1/2" X 20'
DWR	104261	PIPE, GALV 2" X 21' THD
DWR	104262	PIPE, GALV 3/4" X 21' THD
DWR	104263	PIPE, HDPE 18" X 20' SMOOTH INSIDE POLY
DWR	104264	PIPE, HDPE 24" X 20' SMOOTH INSIDE POLY
DWR	104265	PIPE, HDPE 30" X 20' SMOOTH INSIDE POLY
DWR	104266	PIPE, RCP 15" X 8' CLASS 3 T IN GROOVE
DWR	104267	PIPE, RCP 18" X 8' CLASS 3 T IN GROOVE
DWR	104268	PIPE, RCP 24" X 8' CLASS 3 T IN GROOVE
DWR	104269	PIPE, RCP 30" X 8' CLASS 3 T IN GROOVE
DWR	104270	PIPE, RCP 36" X 8' CLASS 3 T IN GROOVE
DWR	104271	PIPE, RCP 42" X 8' CLASS 3 T IN GROOVE

DWR	104272	PIPE, RCP 48" X 8' CLASS 3 T IN GROOVE
DWR	104273	PIPE, RCP 54" X 8' CLASS 3 T IN GROOVE
DWR	104279	PLASTIC SHEETING, 4 MILS, 10' X 100', CL
DWR	104288	PLATE, UPPER VALVE CLOW 5 1/4"-M17
DWR	104289	PLATE, VALVE BOTTOM MET 250 M94 5 1/4
DWR	104290	PLATE, VALVE UPPER MET 250 M94 5 1/4
DWR	104291	PLIERS, 10" ADJ CHROM CHANNEL LOCK 430G
DWR	104292	PLIERS, 10" LOCK VISE GRIPS
DWR	104293	PLIERS, 12" ADJ CHR CHANNEL LOCK - 440G
DWR	104294	PLIERS, 16" ADJ CHANNEL LOCKS
DWR	104296	PLUG, 10" MJ DI W/ACC SIGMA DMP10
DWR	104297	PLUG, 10" RUSSELL
DWR	104298	PLUG, 12" D.I. SIGMA
DWR	104299	PLUG, 12" MJ DI W/ACC SIGMA DMP12
DWR	104300	PLUG, 14" MJ DIF-NS-P140
DWR	104301	PLUG, 16" MJ
DWR	104302	PLUG, 16" TYTON C
DWR	104304	PLUG, 30" MJ DIF-NS-P300
DWR	104306	PLUG, 4" MJ
DWR	104307	PLUG, 6" D.I. SIGMA
DWR	104308	PLUG, 6" MJ DI WITH ACC.
DWR	104309	PLUG, 6" MJ TAPPING 6" X 3"
DWR	104310	PLUG, 6" MJ TAPPING 6" X 4"
DWR	104311	PLUG, 6" PVC PIPE WINGNUT
DWR	104312	PLUG, 8" D.I. SIGMA
DWR	104313	PLUG, 8" MJ DI W/ACC.
DWR	104314	PLUG, 8" MJ WITH 2" TAP
DWR	104315	PLUG, 8" PVC PIPE MECH S-802
DWR	104318	PLUG, GALV 1/2" SQUARE HEAD
DWR	104319	PLUG, GALV 1/4" SQUARE HEAD
DWR	104321	PLUG, GALV 2" SQUARE HEAD
DWR	104322	PLUG, GALV 3/4" SQUARE HEAD
DWR	104324	PLUG, HEX HD 1" NPT 150LB 304S/S
DWR	104325	PLUG, HEX HD 1/2" NPT 150LB 304S/S
DWR	104326	PLUG, HEX HD 1/4" NPT 150LB 304S/S
DWR	104327	PLUG, HEX HD 1/8" NPT 150LB 304 S/S
DWR	104328	PLUG, HEX HD 2" NPT 150LB 304S/S
DWR	104329	PLUG, HEX HD 3" NPT 150LB 304S/S
DWR	104330	PLUG, HEX HD 3/8" NPT 150LB 304 S/S
DWR	104331	PLUG, MECHANICAL WINGNUT 6"
DWR	104332	PLUG, MECHANICAL WINGNUT 8"
DWR	104334	PLUG, GALV 1" SQUARE HEAD

DWR	104346	POISON IVY, PLANT - GEL ANTI ITCH 25CT
DWR	104347	POISON IVY, SKIN PROTECTANT 4OZ
DWR	104352	POLE, ALUMINUM EXTENS 16' TELESCOPIC
DWR	104364	POLISH, FURNITURE AEROSOL 10OZ 12
DWR	104374	POST HOLE DIGGER, 48" FIBERGLASS HANDLES
DWR	104383	POTASSIUM IODIDE, ELECTROLYTE SOLUTION
DWR	104478	PROBE, COMBINATION PH/ATC
DWR	104480	PROBE, DO SENSOR, W/10 FOOT CABLE
DWR	104483	PROBE, PH STAND
DWR	104486	PROTECTOR, SHEET LETTER
DWR	104493	PRY BAR, 18 60"
DWR	104535	PUNCH, PIN 5/16"
DWR	104536	PUSH PIN
DWR	104539	PVC CEMENT/GLUE, 16 OZ. CAN
DWR	104540	PVC CLEANER PURPLE PRIMER, 16 OZ.
DWR	104553	RAINCOAT, PVC/NYLON XL 48" W HOOD
DWR	104554	RAINCOAT, PVC/NYLON XXL 48" W HOOD
DWR	104555	RAINCOAT, PVC/NYLON XXXL 48" W HOOD
DWR	104556	RAINCOAT, PVC/NYLON XXXXXL 48" W HOOD
DWR	104557	RAINCOAT, PVC/NYLON LARGE 48" W HOOD
DWR	104558	RAINSUIT, YELLOW L COAT W HOOD BIB BOTTM
DWR	104559	RAINSUIT, YELLOW M COAT W HOOD BIB BTTM
DWR	104560	RAINSUIT, YELLOW S COAT W HOOD BIB BOTTM
DWR	104561	RAINSUIT, YELLOW XL COAT W HOOD BIB BTTM
DWR	104562	RAINSUIT, YELLOW XXL COAT HOOD BIB BTTM
DWR	104563	RAINSUIT, YELLOW XXXL COAT HOOD BIB BTTM
DWR	104564	RAINSUIT, YELLOW XXXXXL W/HOOD&BIB
DWR	104565	RAKE BOW, 15", 15 TINES 60" FIBERGLASS
DWR	104574	RATCHET, 1/2" DRIVE, 10 3/8" LONG
DWR	104581	REBAR, 1/2" X 20' GR 40
DWR	104588	REDUCER ,8" X 6" DI FL X FL
DWR	104589	REDUCER BELL, 1/2"X3/8" NPT 150LB 304S/S
DWR	104590	REDUCER BELL, 1/4"X1/8" NPT 150LB 304S/S
DWR	104591	REDUCER BELL, 3/8"X1/4" NPT 150LB 304S/S
DWR	104592	REDUCER BUSH, 1 1/2"X1" NPT 150LB 304S/S
DWR	104593	REDUCER BUSH, 1"X3/4" NPT 150LB 304S/S
DWR	104594	REDUCER BUSH, 1/2"X1/4" NPT 150LB304S/S
DWR	104595	REDUCER BUSH, 1/2"X3/8" NPT 150LB304S/S
DWR	104596	REDUCER BUSH, 1/4"X1/8" NPT 150LB304S/S
DWR	104597	REDUCER BUSH, 2 1/2"X2" NPT 150LB304S/S
DWR	104598	REDUCER BUSH, 2"X1 1/2" NPT 150LB304S/S
DWR	104599	REDUCER BUSH, 3"X2 1/2" NPT 150LB304S/S

DWR	104600	REDUCER BUSH, 3/4"X1/2" NPT 150LB304S/S
DWR	104601	REDUCER BUSH, 3/4"X1/4" NPT 150LB304S/S
DWR	104602	REDUCER BUSH, 3/8"X1/4" NPT 150LB304S/S
DWR	104604	REDUCER, 10" X 8" DI FL X FL
DWR	104605	REDUCER, 10" X 8" DI MJ
DWR	104606	REDUCER, 12" X 8" DI MJ
DWR	104608	REDUCER, 6" X 4" DI FL X FL
DWR	104609	REDUCER, 6" X 4" DI MJ
DWR	104610	REDUCER, 8" PE X 6" DI MJ
DWR	104612	REDUCER, 8" X 6" DI MJ
DWR	104615	REDUCING BUSHING, GALV 1" X 1 1/2" HEX
DWR	104616	REDUCING BUSHING, GALV 1" X 1 1/4" HEX
DWR	104617	REDUCING BUSHING, GALV 2 1/2" X 2" HEX
DWR	104618	REDUCING BUSHING, GALV 2" X 1 1/4"
DWR	104620	REDUCING BUSHING, GALV 3/4" X 1" HEX
DWR	104621	REDUCING BUSHING, GALV 3/4" X 1/2" HEX
DWR	104626	RESPIRATOR, MASK LARGE, CART TYPE
DWR	104627	RESPIRATOR, MASK MEDIUM CART TYPE
DWR	104628	RESPIRATOR, MASK SMALL, CART TYPE
DWR	104645	ROD CONNECTOR COUPLING, 3/4" METAL
DWR	104646	ROD, COUPLING MUELLER 4 1/2" NEW
DWR	104647	ROD, COUPLING MUELLER 5 1/4" NEW
DWR	104648	ROD, OPERATING UPPER A D MARK 73
DWR	104649	ROD, PROBING, INSUL ROD,METAL TIP, 4 FT
DWR	104660	ROPE, 1/4" SOLID BRAID NYLON 1000'
DWR	104662	ROPE, POLY-LIFT INFLATABLE HOSE 20FT
DWR	104678	RUBBER, MAIN VALVE A D B62B
DWR	104679	RUBBER, MAIN VALVE CLOW MED 5 1/4"
DWR	104680	RUBBER, MAIN VALVE KENNEDY K81A 5 1/4
DWR	104681	RUBBER, MAIN VALVE M & H 4 1/2"129T V O
DWR	104682	RUBBER, MAIN VALVE M & H VO 5 1/4" 129T
DWR	104683	RUBBER, MAIN VALVE MET 250 5 1/4"OLDSTYL
DWR	104684	RUBBER, MAIN VALVE MUELLER 4 1/2"
DWR	104685	RUBBER, MAIN VALVE MUELLER 5 1/4"
DWR	104686	RUBBER, MAIN VALVE, MET 250 M94 5 1/4
DWR	104687	RUBBERBAND, SIZE 16
DWR	104688	RUBBERBAND, SIZE 33
DWR	104691	SADDLE, 1 1/2" X 1" CC 1STP OD 1.62 1.92
DWR	104692	SADDLE, 1 1/2" X 3/4"CC 1STPOD 1.61-1.92
DWR	104693	SADDLE, 10"X1" CC 2ST AC/CI 11.10-12.12
DWR	104694	SADDLE, 10"X1" CC TAP2ST SDR21 CL 200
DWR	104695	SADDLE, 10"X2" IP 2ST AC/CI 11.10-12.12

DWR	104696	SADDLE, 10"X2" IP 2ST SDR21CLASS 200
DWR	104697	SADDLE, 10"X3/4" CC 2ST TAPSDR 21CL200
DWR	104698	SADDLE, 10"X3/4"CC 2ST AC/CI11.10-12.12
DWR	104699	SADDLE, 12" X 8" TAP FAB DI 13.13-13.60
DWR	104700	SADDLE, 12"X1" CC 2ST AC/CI 13.20-14.38
DWR	104701	SADDLE, 12"X2" IP 2ST AC/CI 13.20-14.38
DWR	104702	SADDLE, 12"X3/4"CC 2ST AC/CI 13.20 14.38
DWR	104703	SADDLE, 12"X6" TAP CI DI 13.13 13.60
DWR	104704	SADDLE, 12"X6" FAB DI 13.13-13.60
DWR	104705	SADDLE, 14"X2" IP TAP 2ST DI 15.30-16.80
DWR	104706	SADDLE, 16" X 1"CC 2ST CI AC 17.40 18.90
DWR	104707	SADDLE, 16" X 8" TAP FAB 17.88 18.43
DWR	104708	SADDLE, 16"X2" IP 2ST CI AC 17.40 18.95
DWR	104709	SADDLE, 16"X3/4"CC 2STR CI AC17.40 18.95
DWR	104710	SADDLE, 18" X 8" TAP FAB 19.41-20.01
DWR	104711	SADDLE, 2 1/2" X 1" CC TAPING PVC PIPE
DWR	104712	SADDLE, 2 1/2" X 3/4" IP TAP 2.44 2.91
DWR	104713	SADDLE, 2" X 1" CC 2STR GALV.2.38 2.56
DWR	104714	SADDLE, 2"X3/4"CC 2STR TAP GALV2.35 2.56
DWR	104715	SADDLE, 20" X 3/4" TAPPING DI
DWR	104716	SADDLE, 20"X 1" CC 3STR DI 21.35 22.60
DWR	104717	SADDLE, 20"X 2"IP 2STR NPT 21.58 DI
DWR	104718	SADDLE, 20"X8" 3STR TAP DI FLG W/O-RING
DWR	104719	SADDLE, 24" X 8" TAP FAB, 27.26 27.96
DWR	104720	SADDLE, 24"X1"CC 3STR CI AC 25.50 26.50
DWR	104721	SADDLE, 24"X12" TAP DI FL 25.80 OD RANGE
DWR	104722	SADDLE, 24"X2" IP 3STR CI 25.50 26.50
DWR	104723	SADDLE, 24"X3/4"CCTAP3STRCIAC25.55-26.32
DWR	104724	SADDLE, 24"X6",FAB STEEL 25.71-26.41
DWR	104725	SADDLE, 3"X 3/4" CC,2STR DI , 3.45 4.05
DWR	104726	SADDLE, 3"X 3/4" CC,2STR TAP DI
DWR	104727	SADDLE, 3"X1"CC, SDR-21CL200 2.97 3.54
DWR	104728	SADDLE, 3"X2"IP SDR-21CL 200 2.97 3.54
DWR	104729	SADDLE, 30"X1"CC 3STR CIAC OD31.75 32.50
DWR	104730	SADDLE, 30"X12" 3STR TAP DI 31.52 32.22
DWR	104731	SADDLE, 30"X2"IP3STR TAP CIAC31.75 32.50
DWR	104732	SADDLE, 30"X3/4"CC TAP3STR CI AC 31.75
DWR	104733	SADDLE, 36"X1"CC TAP CIAC 37.71 38.46
DWR	104734	SADDLE, 36"X12" TAP DI 38.18 38.60 O-RG
DWR	104735	SADDLE, 36"X2" IP TAP CI AC 37.71 38.46
DWR	104736	SADDLE, 36"X3/4"CC TAP DI/CI 7.71 38.46
DWR	104737	SADDLE, 4"X1" CC 2 STR CI/AC 4.50-5.40

DWR	104738	SADDLE, 4"X1" IP SDR-21 CL200 4.00-4.50
DWR	104739	SADDLE, 4"X2" IP 2STR CI/AC 4.50-5.40
DWR	104740	SADDLE, 4"X2" IP SDR-21CL200 4.00-4.50
DWR	104741	SADDLE, 4"X3/4"CC 2STR CI/AC 4.50-5.40
DWR	104742	SADDLE, 4"X3/4"CC TAP 2STR PVC 4.70 5.40
DWR	104743	SADDLE, 42"X12"TAP DI FLG W/3STR 44.50
DWR	104744	SADDLE, 48"X12" TAPDI FLG 50.68 51.12
DWR	104745	SADDLE, 6"X1" CC 3STR CI AC 6.63 7.60
DWR	104746	SADDLE, 6"X1"CC 2STR SDR-21 6.00-6.63
DWR	104747	SADDLE, 6"X2" IP 2STR AC/CI 6.63-7.60
DWR	104748	SADDLE, 6"X2" IP 2STR SDR-21 6.00-6.63
DWR	104749	SADDLE, 6"X3/4" CC 2STR CI AC 6.63 7.60
DWR	104750	SADDLE, 6"X3/4" CC 2STR SDR-21 6.00-6.63
DWR	104751	SADDLE, 6"X6" TAP MJ CI 7.40 7.73 FAB
DWR	104752	SADDLE, 8"X1" CC 2STR AC/CI 9.05-9.55
DWR	104753	SADDLE, 8"X1" CC 2STR SDR-21 8.63
DWR	104754	SADDLE, 8"X2" IP 2STR AC/CI 9.05-9.55
DWR	104755	SADDLE, 8"X2" IP 2STR SDR-21 8.63 9.80
DWR	104756	SADDLE, 8"X3/4" CC 2STR AC/CI 9.05-9.55
DWR	104757	SADDLE, 8"X3/4" CC 2STR SDR-21 8.00-8.63
DWR	104758	SADDLE PVC TAPPING 6" PREDCO #HTS / E6
DWR	104759	SAFETY BELT, LARGE FLU ORANGE W/SUSP
DWR	104760	SAFETY BELT, MEDIUM FLU ORANGE W/SUSP
DWR	104761	SAFETY BELT, SMALL FLU ORANGE W/SUSP
DWR	104762	SAFETY BELT, XLARGE FLU ORANGE W/SUSP
DWR	104763	SAFETY BELT, XXLARGE FLU ORANGE W/SUSP
DWR	104764	SAFETY BELT, XXXLARGE FLU ORANGE W/SUSP
DWR	104768	SAFETY SOLVENT AND DEGREASER, 20OZ 12CT
DWR	104769	SAFETY SUIT, LARGE DISPOS COVERALLS
DWR	104770	SAFETY SUIT, XL DISPOS COVERALLS
DWR	104771	SAFETY SUIT, XXL DISPOS COVERALLS
DWR	104772	SAFETY SUIT, XXXL DISPOS COVERALLS
DWR	104773	SAFETY SUIT, XXXXL DISPOS COVERALLS
DWR	104778	SALT, ROCK COARSE 50LB
DWR	104784	SANITIZER, HAND INSTANT
DWR	104788	SAW, HACK 12" HEAVY DUTY INDUSTRIAL
DWR	104789	SAW, HAND PLASTIC PIPE ALUMINUM HANDLE
DWR	104791	SCISSORS, 8" PLASTIC HANDLES (pack of 2)
DWR	104793	SCOOP, UTILITY POLYETHYLENE 2QT WHITE
DWR	104808	SCREW, FLATHEAD CLOW 3/8"
DWR	104819	SCREW, WEATHER CAP CLOW
DWR	104820	SCREWDRIVER, 8" x 1/4" PHILLIPS HEAD

DWR	104821	SCREWDRIVER, LG 12" FLAT 3/8" BLADE
DWR	104822	SCREWDRIVER, SM 6" FLAT PL HANDLE
DWR	104828	SEAL, BONNET MET 250 5 1/4"
DWR	104858	SEALER, JT 4" SCH 40 PVC PIPE PREDCO
DWR	104859	SEALER, JT 6" DI PIPE PREDCO
DWR	104860	SEALER, JT 6" SCH 35 PVC PIPE PREDCO
DWR	104861	SEAT RING, BRASS 5 1/4 MET 250 M94
DWR	104863	SEAT, MAIN VALVE A D B62B 5 1/4"
DWR	104864	SEAT, MAIN VALVE KENNEDY K81A 5 1/4"
DWR	104865	SEAT, MAIN VALVE M & H 4 1/2" 129T V O
DWR	104866	SEAT, MAIN VALVE M & H VO 5 1/4" 129T
DWR	104867	SEAT, MAIN VALVE MUELLER 5 1/4"
DWR	104868	SEAT, MAIN VALVE O-RING KIT M&H 129
DWR	104869	SEAT, RING CLOW 5 1/4" MEDALLION
DWR	104870	SEAT, VALVE A D MARK 73 4 1/2"
DWR	104972	SHIRT, GOLF NAVY 100% COTTON 2XL
DWR	104973	SHIRT, GOLF NAVY 100% COTTON 3XL
DWR	104974	SHIRT, GOLF NAVY 100% COTTON 4XL
DWR	104975	SHIRT, GOLF NAVY 100% COTTON LARGE
DWR	104976	SHIRT, GOLF NAVY 100% COTTON MEDIUM
DWR	104977	SHIRT, GOLF NAVY 100% COTTON XL
DWR	105130	SHOVEL, FLAT 48" FIBERGLASS HANDLE
DWR	105132	SHOVEL,ROUND-POINT 48" FIBERGLASS HANDLE
DWR	105135	SHOVEL, SHARP SHOOTER FIBERGLASS HANDLE
DWR	105136	SHOVEL, SHARP SHOOTER 48"LONG FIBERGLASS
DWR	105137	SHOVEL, SQUARE POINT 27" D-HANDLE
DWR	105155	SIGN, 48" ROLL UP ROAD CLOSED ORANGE
DWR	105156	SIGN, 48" ROLL-UP FLAGGER AHEAD ORANGE
DWR	105157	SIGN, 48" ROLL-UP LANE CLOSED ORANGE
DWR	105158	SIGN, 48" ROLL-UP MEN WORKING ORANGE
DWR	105355	SILT FENCE, BLACK CLOTH 36" 100'
DWR	105361	SLIPPER HOSE GUIDE, W/ EYE RP TIGER TAIL
DWR	105362	SLUDGE CORE SAMPL, BOT SECT 10' W VALVE
DWR	105363	SLUDGE CORE SAMPL, TOP SECT 5' W ROPE
DWR	105371	SOAP, BODY LIQUID 1GAL
DWR	105374	SOAP, HAND ANTISEPTIC, 800 ML REFILL
DWR	105376	SOAP, HAND DOUBLEPLAY W PUMICE 1GAL
DWR	105377	SOCKET, 1 1/16" 6PT 1/2" DRIVE DEEP DPT
DWR	105378	SOCKET, 1 1/16" MJ
DWR	105379	SOCKET, 1 1/8" 6PT 1/2" DRIVE DEEP DEPTH
DWR	105380	SOCKET, 1" 6PT 1/2" DRIVE DEEP DEPTH
DWR	105381	SOCKET, 1/2" 6PT 1/2" DRIVE DEEP DEPTH

DWR	105382	SOCKET, 13/16" 6PT 1/2" DRIVE DEEP DEPTH
DWR	105383	SOCKET, 15/16" 6PT 1/2" DRIVE DEEP DEPTH
DWR	105384	SOCKET, 3/4" 6PT 1/2" DRIVE DEEP DEPTH
DWR	105385	SOCKET, 7/8" 6PT 1/2" DRIVE DEEP DEPTH
DWR	105386	SOCKET, WRENCH 1 1/4" MJ
DWR	105396	SOLID SLEEVE, 10" X 12" MJ DI
DWR	105397	SOLID SLEEVE, 12" X 12" MJ DI
DWR	105398	SOLID SLEEVE, 14" X 15" MJ DI
DWR	105399	SOLID SLEEVE, 16" X 15" MJ DI
DWR	105400	SOLID SLEEVE, 18" X 15" MJ DI
DWR	105401	SOLID SLEEVE, 20" X 15" MJ DI
DWR	105402	SOLID SLEEVE, 24" X 15" MJ DI
DWR	105403	SOLID SLEEVE, 3" X 12" MJ DI
DWR	105404	SOLID SLEEVE, 30" X 24"MJ DI
DWR	105405	SOLID SLEEVE, 36" X 24" MJ DI
DWR	105406	SOLID SLEEVE, 4" X 12" MJ DI
DWR	105407	SOLID SLEEVE, 42" X 24" MJ DI
DWR	105408	SOLID SLEEVE, 48" X 24" MJ DI
DWR	105409	SOLID SLEEVE, 6" X 12" MJ DI
DWR	105410	SOLID SLEEVE, 8" X 12" MJ DI
DWR	105411	SOLID SLEEVE, 8" X 7" MJ DI (SHORT)
DWR	105417	SPARK PLUG, QUICK CUT SAW
DWR	105421	SPILLWAY THROAT 1033 LEFT WING
DWR	105422	SPILLWAY THROAT 1033 RIGHT WING
DWR	105423	SPILLWAY THROAT 1033 DOUBLE WING
DWR	105430	TWEEZER, METAL WITH NARROW POINT
DWR	105434	SPOOL, 10" DIA X 24" LAY FL X FL DI
DWR	105435	SPOOL, 10" DIA X 72" LAY FL X FL DI
DWR	105436	SPOOL, 4" DIA X 24" LAY FL X FL DI
DWR	105437	SPOOL, 4" DIA X 72" LAY FL X FL DI
DWR	105438	SPOOL, 6" DIA X 24" LAY FL X FL DI
DWR	105439	SPOOL, 6" DIA X 72" LAY FL X FL DI
DWR	105440	SPOOL, 8" DIA X 24" LAY FL X FL DI
DWR	105441	SPOOL, 8" DIA X 72" LAY FL X FL DI
DWR	105449	SPRAY, ANTI-FOG AEROSOL
DWR	105455	SPRAYER, COMPRESSED AIR 2 1/2 GAL
DWR	105459	PLUG, GALV 1 1/2" SQUARE HEAD
DWR	105460	TEE, GALV 1 1/2" SQUARE HEAD
DWR	105465	SQUEEGEE, FLOOR 36" (USE HANDLE 1060)
DWR	105477	WOOD, STAKE 24" (50 PER BUNDLE)
DWR	105478	WOOD, STAKE 36" (25 PER BUNDLE)
DWR	105491	STAND, SIGN SINGLE SPRNG STAND-LOCKING

DWR	105492	STAND, SIGN T GALV ST BUILT-IN SPR CLIP
DWR	105500	STAPLER, STANDARD
DWR	105504	STAPLES, STANDARD 1/4" 5000CT
DWR	105510	STEM, EXTENSION A D 4 1/2" X 12"
DWR	105511	STEM, EXTENSION A D 5 1/4" X 12"
DWR	105512	STEM, EXTENSION KENNEDY K10B K11 K81A
DWR	105513	STEM, OPER LOWER 3 FT MET 250 5 1/4"
DWR	105514	STEM, OPER LOWER 4 FT MUELLER 5 1/4
DWR	105515	STEM, OPER UPPER CLOW MEDDALLION 5 1/4"
DWR	105516	STEM, OPER UPPER KENNEDY 5 1/4" K81A
DWR	105517	STEM, OPER UPPER M & H 4 1/2", 129
DWR	105518	STEM, OPER UPPER M & H 5 1/4", 129
DWR	105519	STEM, OPER UPPER MET 250 5 1/4"
DWR	105520	STEM, OPER UPPER MUELLER 5 1/4
DWR	105539	STRAINER, MTR 3" VERT BRONZE 150PSI
DWR	105540	STRAINER, MTR 4" VERT BRONZE 150PSI
DWR	105541	STRAINER, MTR 6" VERT BRONZE 150PSI
DWR	105542	STRAINER, MTR 8" VERT BRONZE 150PSI
DWR	105546	STRAW, PINE BALE
DWR	105547	STRAW, WHEAT BALE
DWR	105574	SUNBLOCK, SPF30 1OZ
DWR	105580	ANTIBIOTIC CREAM, TRIPLE- (10 CT Pack)
DWR	105581	STING SWAB, PAIN KILL 10CT
DWR	105643	SWEEPING COMPOUND, 50LB BOX
DWR	105672	TAG, LOCKOUT "DO NOT CLOSE VALVE" 5/pk
DWR	105673	TAG, LOCKOUT "DO NOT OPEN VALVE" 5/pk
DWR	105679	TAG,"FH OUT OF SERVICE"YW 7 X 7 W/3"CIR
DWR	105690	TAPE, ADHESIVE 1/2" X 10 YD
DWR	105691	TAPE, "CAUTION"3"X1000' YELLOW/BLACK
DWR	105692	TAPE, BARRICADE "DANGER"3"X1000' RED/ BL
DWR	105696	TAPE, CALCULATOR, 2 1/4" (PMC 08835)
DWR	105701	TAPE, DUCT 2" X 60 YDS (GREY)
DWR	105703	TAPE, ELECT BLACK VINYL , 3/4" X 66'
DWR	105704	TAPE, ELECT BLUE VINYL , 3/4" X 66'
DWR	105705	TAPE, ELECT BROWN VINYL 3/4" X 60 FOOT
DWR	105706	TAPE, ELECT GREEN VINYL 3/4" X 60 FOOT
DWR	105709	TAPE, ELECT ORANGE VINYL 3/4" X 66'
DWR	105710	TAPE, ELECT RED VINYL 3/4" X 66'
DWR	105711	TAPE, ELECT WHITE VINYL 3/4" X 66'
DWR	105712	TAPE, ELECT YELLOW VINYL 3/4" X 66'
DWR	105717	TAPE, FLAGGING , 1" X 100' FLU ORAN, PL
DWR	105728	TAPE, MASKING 1" X 60ft, tan

DWR	105733	TAPE, MEASURING 25' X 1" PL COVER W/LOCK
DWR	105736	TAPE, REFLECTIVE WHITE 2" - PK OF 5
DWR	105741	TAPE, SEALING, CLEAR-2 INCH
DWR	105745	TAPE, TEFLON 1/2" X 600FT THREADSEAL
DWR	105746	TAPE, TRANSPARENT 3/4"
DWR	105750	TAR, PLASTIC ROOF CEMENT-5 GALLON BUCKET
DWR	105755	TEE, 1" NPT 150LB 304 S/S
DWR	105756	TEE, 1/2" NPT 150LB 304 S/S
DWR	105757	TEE, 1/4" NPT 150LB 304 S/S
DWR	105758	TEE, 1/8" NPT 150LB 304 S/S
DWR	105759	TEE, 10" X 10" MJ DI
DWR	105760	TEE, 10" X 10" MJ X 10" FLG DI W/ACC
DWR	105761	TEE, 10" X 6" DI W/ACC KIT
DWR	105762	TEE, 10" X 8" X 10" DI, MJ X MJ REDUCER
DWR	105763	TEE, 12" X 12" X 12" MJ DI W/ACC
DWR	105764	TEE, 12" X 12" X 8" MJ DI W/ACC
DWR	105765	TEE, 12" X 6" MJ DI
DWR	105766	TEE, 14" X 6" MJ DI DIF-NS-T140 X 60
DWR	105767	TEE, 14" X 6" MJ X FL DI COATED LINED
DWR	105768	TEE, 16" X 10" MJ DI
DWR	105769	TEE, 16" X 16" MJ DI
DWR	105770	TEE, 16" X 8" MJ DI
DWR	105771	TEE, 2" NPT, 150 LB 304 S/S
DWR	105772	TEE, 20" X 20" X 20" MJ DI W/ACCES.
DWR	105773	TEE, 24" X 24" X 24" MJ DI W/ACCES
DWR	105774	TEE, 3" NPT, 150 LB 304 S/S
DWR	105775	TEE, 3/4" BRASS COMPRESSION
DWR	105776	TEE, 3/8" NPT, 150 LB 304 S/S
DWR	105777	TEE, 30" X 30" X 30" MJ DI W/ACESS
DWR	105779	TEE, 4" X 4" MJ DI
DWR	105780	TEE, 4" X 4" MJ X 4" FLG DI W/ACC
DWR	105781	TEE, 6" X 4" MJ DI DIF-T60X40
DWR	105783	TEE, 6" X 6" X 6" MJ DI W/ACC
DWR	105784	TEE, 8" X 8" MJ X 8" FLG DI W/ACC
DWR	105785	TEE, 8" X 8" X 6" MJ DI W/ACC
DWR	105786	TEE, 8" X 8" X 8" MJ DI W/ACC
DWR	105787	TEE, ANCHORING 12"X12"X6" MJ DI W ACC
DWR	105789	TEE, ANCHORING 8" X 8" X 6" MJ DI W ACC
DWR	105790	TEE, GALV 1 1/4" SQUARE HEAD
DWR	105791	TEE, GALV 1"
DWR	105792	TEE, GALV 1/2" THD
DWR	105793	TEE, GALV 1/4"

DWR	105794	TEE, GALV 1/8"
DWR	105795	TEE, GALV 2 1/2"
DWR	105796	TEE, GALV 2"
DWR	105797	TEE, GALV 2" X 1" X 2"
DWR	105798	TEE, GALV 3/4" PIPE
DWR	105799	TEE, GALV 3/8" PIPE
DWR	105800	TEE, PVC SCH 35 6"
DWR	105801	TEE, PVC SCH 40 4"
DWR	105802	TEE, PVC SCH 80 1 1/2"
DWR	105803	TEE, PVC SCH 80 1 1/4"
DWR	105804	TEE, PVC SCH 80 1"
DWR	105805	TEE, PVC SCH 80 1/2"
DWR	105806	TEE, PVC SCH 80 2"
DWR	105807	TEE, PVC SCH 80 3"
DWR	105808	TEE, PVC SCH 80 3/4"
DWR	105809	TEE, PVC SCH 80 4"
DWR	105810	TEE, PVC SCH 80 6"
DWR	105814	TEST KIT, CHLOR FREE TOTAL 0-3.5 M916
DWR	105816	TEST PLUG, 10" MECHANICAL WINGNUT
DWR	105818	TEST TUBES, REPLACEMENT FOR TEST KITS
DWR	105826	THREADED ROD, 1/2" X 6'
DWR	105827	THREADED ROD, 3/4" X 10' ALL THRD ROD
DWR	105828	THREADED ROD, 3/4" X 6' ALL THRD ROD
DWR	105829	THREADED ROD, 5/8" X 10'
DWR	105841	TIE, NYLON FLUOR GREEN- 11 inch
DWR	105849	TISSUE, EYE GLASS
DWR	105850	TISSUE, KIM WIPE 280 PK
DWR	105903	TONER, HP C4182X 8100N 8150HP LASERJET
DWR	105953	TOP, RND 48" X 12" W/SQ GRATE & FRAME
DWR	105954	TOP, BASIN LID, 1033 LEFT WING
DWR	105955	TOP, BASIN LID, 1033 RIGHT WING
DWR	105956	TOP, CR DOUBLE SPILLWAY 6' X 6'
DWR	105957	TOP, BASIN LID, 1033 DOUBLE WING
DWR	105958	TOP, CR PEDSTAL 48" ROUND W/1033 R&C
DWR	105959	TOP,CR PEDESTAL4' X 4' X 6"SQ W/1033 R&C
DWR	105960	TOP, CR PEDSTAL5' X5' X8"SQ W/1033 R&C
DWR	105961	TOP, CR PEDSTAL6' X6' X6" SQ W/1033 R&C
DWR	105962	TOP, CR PLAIN 5' X 5' X 6" SQ SOLID
DWR	105963	TOP, CR PRECAST 6' X 6' X 6" SQ SOLID
DWR	105964	TOP, CR PRECAST4' X 4' X 6"SQ W/1033 R&C
DWR	105965	TOP, CR PLAIN 4' X 4' X 6" SQ SOLID
DWR	105966	TOP, CR PRECAST4' X 4' X 8"SQ W/GT&FRM

DWR	105967	TOP, CR PRECAST5' X 5' X 8"SQ W/GT&FRM
DWR	105968	TOP, CR PRECAST5' X5' X 6"SQ W/1033 R&C
DWR	105972	TOWEL, BAR MOP 17"X20" ISSUE AS BALE
DWR	105977	TOWEL, PAPER MULTI-FOLD ISSUE BY CASE
DWR	105991	TREEKOTE, TREE WOUND DRESSING AERO
DWR	106020	TROWEL, 10" X 4 3/4" BRICK,CARBON STEEL
DWR	106021	TROWEL, 4 1/2" X 14" FLAT BLADE, S/S
DWR	106022	TROWEL, 6" X 2 3/4",SM DIAMOND HEAD
DWR	106024	TROWEL, GARDEN W/3"BLADE AND PL GRIP
DWR	106116	TUBING COPPER, 1" X 100' RL,"K" SOFT
DWR	106117	TUBING COPPER, 3/4" X 100' RL,"K" SOFT
DWR	106118	TUBING CUTTER, COPPER 3/16" TO 1 1/4"
DWR	106120	TUBING CUTTER, RATCH PVC 1/2" TO 1 1/8"
DWR	106121	TUBING CUTTER, SCISSOR POLY 1/2" TO 1"
DWR	106123	TUBING POLYETHYL, 1" X 300' 200PSI
DWR	106125	TUBING POLYETHYL, 3/4"X 500' 200PSI
DWR	106127	TUBING, RUBBER FOR PUMP
DWR	106128	TUBING, SAMPLER .375 SILIC RUBBER
DWR	106129	TUBING, SAMPLE3/8"IDX5/8ODX100' VINYL CL
DWR	106135	TWINE, NYLON 18 X 1093' 100% FILAMENT
DWR	106138	UNION 1" NPT, 150 LB 304 S/S
DWR	106139	UNION 1/2" NPT, 150 LB 304 S/S
DWR	106140	UNION 1/4" NPT, 150 LB 304 S/S
DWR	106141	UNION 1/8" NPT, 150 LB 304 S/S
DWR	106142	UNION 2" NPT, 150 LB 304 S/S
DWR	106143	UNION 3" NPT, 150 LB 304 S/S
DWR	106144	UNION 3/8" NPT, 150 LB 304 S/S
DWR	106145	UNION, GALV 1 1/4"
DWR	106146	UNION, GALV 1"
DWR	106147	UNION, GALV 2 1/2"
DWR	106148	UNION, GALV 2" THD X THD
DWR	106149	UNION, GALV 3/4"
DWR	106150	UNION, PVC SCH 80 1"
DWR	106151	UNION, PVC SCH 80 1/2"
DWR	106152	UNION, PVC SCH 80 2"
DWR	106153	UNION, PVC SCH 80 3"
DWR	106154	UNION, PVC SCH 80 3/4"
DWR	106170	VALVE ASSEM, 2" DUAL CHK W/2PORT B VAL
DWR	106171	VALVE BOX LID, 5 1/4" CI,"WATER" ON LID
DWR	106172	VALVE BOX RISER, 5 1/4" CI SHAFT 1 1/2"
DWR	106173	VALVE BOX RISER, 5 1/4" CI SHAFT 2"
DWR	106174	VALVE BOX, 18" TO 24" SLIP TYPE CI

DWR	106175	VALVE MARKER, CONCR, 4"X4' 1" SQ."V" IND
DWR	106176	VALVE PLATE, UPPER, MET 250 OLD/STYLE
DWR	106184	VALVE, 1 1/2" GATE THD IP WHL BRNZ 200
DWR	106185	VALVE, 1 1/2" PVC BALL DBL UNION,D-BLOC
DWR	106187	VALVE, 1 1/4" PVC BALL DBL UNION D-BLOC
DWR	106188	VALVE, 1" BALL THD BRZ WOG 1" IPS-BRZ
DWR	106189	VALVE, 1" S/S BALL THD VINYL COATED HAND
DWR	106192	VALVE, 1" PVC BALL DBL UNION D-BLOC
DWR	106193	VALVE, 1/2" BALL BRONZE THD
DWR	106194	VALVE, 1/2" S/S BALL THD VINLY COAT HAND
DWR	106197	VALVE, 1/2" PVC BALL DBL UNION D-BLOC
DWR	106198	VALVE, 1/4" S/S BALL THD VINY COAT HAND
DWR	106200	VALVE, 10" GATE MJ RESIL ST W/2" OP NUT
DWR	106201	VALVE, 10" TAPPING MJ X FLG RESIL SEAT
DWR	106202	VALVE, 12" BUTTERFLY MJ W/2" OPER NUT
DWR	106204	VALVE, 12" GATE WHEEL FLG X FLG
DWR	106205	VALVE, 12" TAPPING MJ X FLG RESIL SEAT
DWR	106206	VALVE, 16" BUTTERFLY MJ W/2" OPER NUT
DWR	106207	VALVE, 2 1/2" GATE THD WHEEL BRASS
DWR	106208	VALVE, 2" S/S BALL THD VINYL COAT HAND
DWR	106210	VALVE, 2" GATE THD IP WHL BRZ 200PSI
DWR	106211	VALVE, 2" PVC BALL DBL UNION D-BLOC
DWR	106212	VALVE, 24" BUTTERFLY MJ W/2" OPER NUT
DWR	106213	VALVE, 3" S/S BALL THD VINYL COAT HAND
DWR	106214	VALVE, 3" GATE FLG X FLG WHEEL OPER
DWR	106215	VALVE, 3" GATE MJ RESIL SEAT W/2" OP NUT
DWR	106216	VALVE, 3" GATE OS & Y FLG X FLG RSTEM
DWR	106217	VALVE, 3" GATE THD WHEEL BRASS
DWR	106218	VALVE, 3" PVC BALL DBL UNION D-BLOC
DWR	106219	VALVE, 3/4" BALL THD WOG IPS-BRZ 400
DWR	106222	VALVE, 3/4" GATE THD BRNZ 200PSI
DWR	106224	VALVE, 3/4" PRESSURE REDUC THD. BRNZ
DWR	106225	VALVE, 3/4" PVC BALL DBL UNION D-BLOC
DWR	106226	VALVE, 30" BUTTERFLY MJ W/2" OPER NUT
DWR	106230	VALVE, 4" GATE MJ RESIL STW/2" OP NUT
DWR	106231	VALVE, 4" GATE OS & Y FLG X FLG RSTEM
DWR	106232	VALVE, 4" PVC BALL DBL UNION D-BLOC
DWR	106238	VALVE, 6" GATE FLG X FLG
DWR	106240	VALVE, 6" GATE MJ RESIL ST 2" OPER NUT
DWR	106241	VALVE, 6" GATE OS & Y FLG X FLG RSTEM
DWR	106242	VALVE, 6" TAPPING MJ X FLG W/2"OPER NUT
DWR	106247	VALVE, 8" GATE FLG X FLG WHEEL OPER

DWR	106248	VALVE, 8" GATE MJ RESIL ST W/2"OPER NUT
DWR	106249	VALVE, 8" GATE OS & Y FLG X FLG RSTEM
DWR	106250	VALVE, 8" TAPPING MJ X FLG RESIL SEAT
DWR	106261	VEST, SAFETY 2XLARGE LIME GRN W/RF STR
DWR	106262	VEST, SAFETY 3XLARGE LIME GRN W/RF STR
DWR	106263	VEST, SAFETY 4XLARGE LIME GRN W/RF STR
DWR	106265	VEST, SAFETY LARGE LIME GRN W/RF STR
DWR	106266	VEST, SAFETY MEDIUM LIME GRN W/RF STR
DWR	106267	VEST, SAFETY XLARGE LIME GRN W/RFL STR
DWR	106292	WASHER, 3/4" MJ FLAT STEEL
DWR	106296	WASHER, FLAT 1 1/2" STEEL
DWR	106297	WASHER, FLAT 1 1/4" STEEL
DWR	106298	WASHER, FLAT 1/2" STEEL
DWR	106300	WASHER, FLAT 1/4" STEEL
DWR	106301	WASHER, FLAT 3/8" STEEL
DWR	106303	WASHER, FLAT 5/16" STEEL
DWR	106304	WASHER, FLAT 5/8" STEEL
DWR	106305	WASHER, FLAT 7/16" STEEL
DWR	106307	WASHER, FLAT 9/16 STEEL
DWR	106308	WASHER, FLAT, 1" STEEL
DWR	106311	WASHER, LOCK SPLIT 1/2" STEEL
DWR	106312	WASHER, LOCK SPLIT 1/4" STEEL
DWR	106313	WASHER, LOCK SPLIT 3/4" STEEL
DWR	106314	WASHER, LOCK SPLIT 3/8"STEEL
DWR	106315	WASHER, LOCK SPLIT 5/16" STEEL
DWR	106316	WASHER, LOCK SPLIT 5/8" STEEL
DWR	106317	WASHER, LOCK SPLIT 7/16" STEEL
DWR	106318	WASHER, LOCK SPLIT 7/8" STEEL
DWR	106320	WASHER, METER 1" RUBBER PACK OF 100
DWR	106322	WASHER, METER 3/4 X 1/32" rubber PK/100
DWR	106323	WASHER, METER 3/4" RUBBER PK/100
DWR	106329	WASP SPRAY, AEROSOL KILL RANGE 20FT
DWR	106334	WATER COOLER, 2 GALLON SCREW LID
DWR	106361	WEATHER COVER A D 5 1/4" B62B
DWR	106363	WEATHERSHIELD, M&H 4 1/2" 129
DWR	106364	WEATHERSHIELD, M&H 5 1/4" 929
DWR	106370	WHEEL CHOCKS, RUBBER W/EYEBOLT
DWR	106385	WINDBREAKER, BLUE OVERSIZE 2XL
DWR	106386	WINDBREAKER, BLUE REG CUT LARGE
DWR	106387	WINDBREAKER, BLUE REG CUT MEDIUM
DWR	106388	WINDBREAKER, BLUE REG CUT XL
DWR	106398	WINDSHIELD WIPER SOLVENT

DWR	106404	WIPE, HAND-MOIST-CANNISTER
DWR	106406	WIPE, BOX-DRY-TOWEL
DWR	106442	WRENCH, 10" ADJUST END CHROM
DWR	106443	WRENCH, 12" ADJUST END CHROM
DWR	106444	WRENCH, 14" PIPE IRON, 2" JAW CAP
DWR	106445	WRENCH, 15" ADJUSTABLE CHROME
DWR	106446	WRENCH, 18" ADJUST. END NI-CR PLATED ST
DWR	106447	WRENCH, 8" ADJUST. END NI-CR PLATED ST
DWR	106448	WRENCH, ALLEN 1/2" FOR TAMPER PROOF BOLT
DWR	106449	WRENCH, ALLEN 5/8" HOLE TAMPER PRF BOLT
DWR	106452	WRENCH, FIRE HYDRANT
DWR	106454	WRENCH, METER 1 1/4" ONE HAND
DWR	106455	WRENCH, MJ RATCHET
DWR	106456	WRENCH, PIPE 10" IRON JAW HEAVY DUTY
DWR	106457	WRENCH, PIPE 18" IRON JAW HEAVY DUTY
DWR	106458	WRENCH, PIPE 24" IRON JAW HEAVY DUTY
DWR	106463	WYE, PVC SCH 35 6"
DWR	106464	WYE, PVC SCH 40 4" DWV
DWR	106650	SEALER, MANHOLE RAP-0 1/2" X 84" ROLL
DWR	106651	NIPPLE, METER 1" X 2 5/8" BRASS
DWR	106660	SOAP, TRUCK&CAR LIQ 35GL DRUM
DWR	106678	PIPE, CMP FULL RND 60"X20' 12 GA COATED
DWR	106685	TAG, YELLO METER LOCKOUT
DWR	106758	NOZZLE, FH HOSE 2 1/2" MET 250, M94
DWR	106768	PIPE, CMP FULL RND 48"X20' 14 gauge
DWR	106777	BAND, DIMPLE (FLAT) 48 "
DWR	106797	RAINSUIT, YELLOW XXXXL COAT/HOOD BIB
DWR	106798	RAINCOAT, PVC/NYLON XXXXL 48" W/HOOD
DWR	106827	COUPLING, FERNCO 6" PL X 6" PL SCH35
DWR	106828	NIPPLE, GALV 1 1/2" X 6" PIPE
DWR	106829	PIPE LUBRICATION, QT/HALF GALLON TUB
DWR	106918	PIPE, CMP RULL RND 36"X20' 14 gauge
DWR	106939	PRINTER CART, BLK, TGA776-26250002 CS
DWR	106940	OIL, CUTTING THD, DARK RIDGID#70830
DWR	106947	UNION, GALV 1 1/2"
DWR	106948	COUPLING, PVC SCH 80 2 1/2"
DWR	106958	BEND, 30" FLEX RING 45 D, DI (yard)
DWR	106959	PIPE, 54" X 20', DI FLEX RING CL250
DWR	106960	PIPE, 54" X 20', DI MJ CL250
DWR	106961	VALVE, 72" BUTTERFLY FLANGED
DWR	107000	KEY, COMBO CURB & VALVE, 3.5-6.5 LG
DWR	107001	SADDLE, 36" X 6" FABRICATED 31.75

DWR	107013	CAP, FULL BRIM, CANVAS KHAKI, FLOPPY
DWR	107030	SCREWDRIVER, STUBBY SLOTTED TIP
DWR	107066	WINDBREAKER, NAVY OVERSIZE 3XLARGE
DWR	107084	WINDBREAKER, NAVY OVERSIZE 4XLARGE
DWR	107106	CMP METAL 24" SAFETY FLARED END SECTION
DWR	107107	CMP METAL 18" SAFETY FLARED END SECTION
DWR	107123	CARTRIDGE, INK HP Q5950A BLACK
DWR	107124	CARTRIDGE, INK HP Q5951A CYAN
DWR	107125	CARTRIDGE, INK HP Q5952A YELLOW
DWR	107126	CARTRIDGE, INK HP Q5953A MAGENTA
DWR	107130	SEAT RING, BRASS 5 1/4" MET 250 OLD
DWR	107142	CARTRIDGE, INK HP Q7582A YELLOW
DWR	107143	CARTRIDGE, INK HP Q7583A MAGENTA
DWR	107144	GASKET, BELL 42" RUBBER
DWR	107147	OXYGEN, COMPRESSED GAS SIZE 300
DWR	107160	BLADE, SAW 14" DIAMOND,CURED CONC.20mm
DWR	107161	BLADE, SAW 14" MASONARY 20mm ARBOR
DWR	107270	MANHOLE 1 1/2ft., RISER SECT (4' DIA) yd
DWR	107317	CLAMP, 12" FULL CIR 12"LG 12.75-13.55
DWR	107318	BATTERY, AA CELL 1.5V (DWR ONLY)
DWR	107338	BATTERY, D CELL 1.5V (DWR ONLY)
DWR	107339	BATTERY, C CELL 1.5V (DWR ONLY)
DWR	107341	BLEACH, ONE GALLON/EACH
DWR	107360	FLANGE, BLIND 6" W/2 " TAP NPT HOLE
DWR	107361	FLANGE, BLIND 8" W/2" TAP NPT HOLE
DWR	107370	KITS, WATER CONSERVATION (NIAGARA)
DWR	107372	SHOVEL, TRENCH, 5 " BLADE, 48" HANDLE
DWR	107373	BACKFLOW PREVENTER, 3/4"DBL CHECK-TPORTS
DWR	107382	BOOT, RUBBER HIP STEEL TOE SZ 14
DWR	107385	RATCHET, MJ ADJUSTABLE QUICK RELEASE
DWR	107386	SOCKET, MJ -CORPORATION SPLIT
DWR	107387	WOOD, BOARD 2" X 4" X 16FT, SPRUCE
DWR	107388	WOOD, BOARD 2" X 6" X 16 FT PINE
DWR	107389	WOOD, BOARD 2" X 8" X 8FT PINE
DWR	107390	WOOD, BOARD 1" X 4" X 16FT
DWR	107391	WOOD, BOARD 1" X 6" X 16 FT
DWR	107392	WOOD, PLYWOOD 3/4" 4FT X 8FT
DWR	107393	BOARD, MASONITE PL LAP, 7/16" X8" X 16FT
DWR	107394	WIRE, WELDED, 5FT X 150FT, 6"X6"X10GA
DWR	109403	SILT SCREEN, RND BASE, FLTR ASSY
DWR	109404	SILT SCREEN, FILTER ONLY
DWR	109542	CAP, CANVAS KHAKI ONE SZ. FIT ALL

DWR	109543	BLADE, SAW 14" DIAMOND-DUCTILE IRON BLK
DWR	109554	GLOVES, FOAM COATED SZ.8 MED
DWR	109555	GLOVES, FOAM COATED SZ.9 LAR
DWR	109560	TEE, 16" X 12" MJ DI
DWR	109590	CARTRIDGE, TONER HP Q2612A PRINT C/S
DWR	109610	BATTERY, AAA CELL1.5V (DWR ONLY)
DWR	109631	PIPE, HDPE 15" X 20' SMOOTH INSIDE POLY
DWR	109680	BUNGEE CORDS, 18" RUBBER/W HOOKS
DWR	109681	NIPPLE 3" FL X 3' PE DIP, (4-HOLE)
DWR	109682	NIPPLE 3" FL X 20' PE DIP, (4-HOLE)
DWR	109683	NOZZLE, PUMPER 4 1/2" MET 250, M94
DWR	109709	BINDER, RING 1/2" BLK, w/view insert
DWR	109750	HOOD, CURB BASIN W/GRATE/FRAME
DWR	109760	CCTV, RING GREASE
DWR	109762	CCTV, AXLE REPAIR KIT
DWR	109764	CCTV, 12" QUICK CHANGE COORUNDUM WHEEL
DWR	109766	CCTV, 12" QUICK CHANGE HMS WHEEL
DWR	109767	CCTV, 8" QUICK CHANGE HMS WHEEL
DWR	109768	CCTV, HUB O-RING 22 X 1
DWR	109810	COUPLING,REDUCER sch80 pvc, 4" x 3"
DWR	109832	CARTRIDGE, HP C8543X, laserjet 9000 sr.
DWR	109833	RUBBER, MAIN VALVE A D MARK 73 4 1/2"
DWR	109841	BATTERY, MOTOROLA RADIO NTN9858C
DWR	109862	CURB STOP, 2" comp.x fip (poly)
DWR	110003	BLADE, SAWZALL wood 9" DW4803
DWR	110005	CELL, SAMPLE COLORIMETER, SCW CAP 10ml
DWR	110015	SPLICER, COUPLING 3/4" 3000lb
DWR	110016	HOSE, HYDROJET-3/4" 3000psi 500ft Roll
DWR	110017	LEADER HOSE 3/4"X10' WIRE BRAIDED 3000ps
DWR	110030	VALVE, 4" GATE, OS&Y FL X MJ, R/STEM
DWR	110031	VALVE, 6" GATE, OS&Y FL X MJ, R/STEM
DWR	110032	VALVE, 8" GATE, OS&Y FL X MJ, R/STEM
DWR	110110	Air Filter,Kit STIHL Saw #4238-140-4404
DWR	110121	METER, FH, 3", 2" GATE, New Number
DWR	110141	FLANGE, ADAPTER, 3" 2100 SERIES
DWR	110175	Cold Patch, Bagged 50# QPR
DWR	110177	Notebook, Project Planner, 9x7, #20816
DWR	110272	BATTERY, CLEANER-SPRAY
DWR	110273	GREASE, DIELECTRIC SILICONE
DWR	110277	NUT, HEX GRADE 5 ZINC 1"
DWR	110318	FUEL TREATMENT, ETHANOL BLENDED GAS
DWR	110528	TOP, RND 48" X 12" OFF-SET W/SW R&C 1033

DWR	110835	CHAIN, CHAIN SAW, STIHL 26RS74
DWR	110855	DEGREASER, HYDROJET TANKS-KW54 -1gal
DWR	110880	FLASH DRIVE, USB 16 GB, HIGH SPEED
DWR	110923	FILE BOX, STORAGE-letter&legal* DWR*only
DWR	111287	METER BOX LID, 24" X 18" LARGE, CAST
DWR	111288	METER BOX LID, 15" X 18" OVAL
DWR	111352	CCTV, 8" QUICK CHANGE CORUNDUM WHEEL
DWR	111513	PVC Cement Rain-R-Shine 8 oz. Can
DWR	111532	BOLT, 20mm x 70mm Stainless , Full-Thd
DWR	111533	NUT, 20mm, ISO 4032 HEX NUT 316SS
DWR	111542	MANHOLE RISER, 48" X 4' Section, Polymer
DWR	111543	MANHOLE RISER, 48" X 2' Section, Polymer
DWR	111545	MANHOLE CONE, 48" X 2' Ecc., Polymer
DWR	111546	MANHOLE, Rubber Gasket 48", Polymer
DWR	111548	MANHOLE RISER, 48" X 3' Section, Polymer
DWR	111553	Degreaser, JetPower II, 5 GL,Hyd
DWR	111559	BOLT, 5/8" X 4 1/2" TIE LOOP HEAD
DWR	111620	DETERGENT, DAWN - 5 GAL.
DWR	111626	BASIN, 3' H x 4' DIA W/18" RCP 1Hole
DWR	111627	BASIN, 3' H x 4' DIA W/24" RCP 1Hole
DWR	111652	6" FLG X 6" FLG X 18" Lay SPOOL w/2"Tap
DWR	111653	8" FLG X FLG X 24"Lay SPOOL w/2"Tap Cen
DWR	111664	Tubing, Red Poly - 3/8" O.D.#E-64-R-0500
DWR	111742	GASKET, 6" TRANSITION MJ X SCH 35 PVC
DWR	111762	Hook, Large for Lifting Chains
DWR	111763	Hook, Repair Latch Kit
DWR	111764	Manhole Step, Plastic coated steel
DWR	111765	BELT, Gas Quick Cut Saw, TS420
DWR	111781	Fire Hydrant Oil - 1 GALLON
DWR	111787	GRATE, FOR HOODED GRATE FRAME
DWR	111805	Curb Stop, 2" FIPXFIP, AY MD LF M76101WK
DWR	111807	CCTV, HUB O-RING 25 X 1
DWR	111823	MANHOLE BASE, 48" X 2', Polymer
DWR	111846	NIPPLE 2" X 4" NPT, 150lb 304 S/S
DWR	111930	TEE, PVC SCH 35, 8X6X8, glue
DWR	111931	SADDLE, 3" X 2"ip, 2ST,CI/AC 3.45 - 4.05
DWR	111942	GLASSES, SAFETY, FOAM UVEX Clear
DWR	111943	Locknut, New Style Operating Nut,M&H 129
DWR	111960	Bonnet Gasket, AD 5 1/4"
DWR	111965	Bonnet Gasket, Kennedy 5 1/4"
DWR	111968	Bonnet Gasket, Mueller 5 1/4"
DWR	111978	Valve, 2" Brass Ball,Thd, Vinyl Coat Hnd

DWR	111995	BEND, 1 1/2" 90 DEG NPT 150LB 304 S/S
DWR	111998	METER BOX, 17" X 30" X 18" W/PLASTIC LID
DWR	112011	LEADER HOSE 1" X 10' WIRE BRAIDED 3000PS
DWR	112020	TAG, HOT WORK PERMIT, YELLOW 3 PAR
DWR	112045	HOOK, REFUSE (Small) 4 TINES, 60" HANDLE
DWR	112048	SHIRT, V-NECK GOLF LADIES MW, NAVY SMALL
DWR	112054	SWEATSHIRT, ZIPPER-HOOD, 100% COT,SMALL
DWR	112055	SWEATSHIRT, FULL ZIP-HOOD, 100%COT,(2XL)
DWR	112058	SHIRT, GOLF MW, NAVY (2XL)
DWR	112059	SHIRT, GOLF MW, NAVY 4XL
DWR	112080	COUPLING-ROD Non Frangi Met 250
DWR	112090	PIPE, C900 4" X 20 ', DR18 235 PSI
DWR	112092	PIPE, C900 6" X 20 ', DR18 235 PSI
DWR	112095	PIPE, C900 8" X 20 ', DR18 235 PSI
DWR	112096	VALVE, OP NUT, Gate, RS, M & H
DWR	112097	VALVE, OP NUT, Gate, RS, MUELLER
DWR	112098	VALVE, OP NUT, Gate, RS, AMER. VALVE
DWR	112099	VALVE, OP NUT, Gate, RS, CLOW
DWR	112114	HEADWALL, 24" HOLE
DWR	112116	HEADWALL,36" HOLE
DWR	112117	HEADWALL,48" HOLE
DWR	112118	Washer, Thrust M & H 5 1/4
DWR	112119	Gasket, Flange A D 5 1/4
DWR	112120	Gasket, Flange A D 4 1/2
DWR	112121	Gasket, Bonnet A D 4 1/2
DWR	112136	CHAIN,CHAIN SAW,OILOMATIC 26RS68 STIHL
DWR	112140	Faceshield Plastic-fits Bullard Hard Hat
DWR	112142	Fertilizer,Liquid 10-8-8, 55 Gallon Drum
DWR	112143	GLOVES, NITRILE DISPOS 2XL, BX
DWR	112170	Washer,Thrust, U.S. Met 250, 5 1/4
DWR	112171	Washer, Thrust, Mueller, 5 1/4 VO
DWR	112180	KEY, GATE VAL TELESCOP,12', 2" Fix-Head
DWR	112191	MANHOLE LID,RISER RING 2" GRADE STACKABL
DWR	112193	Tags, Malnilla Small w/wire ties (50 pk)
DWR	112194	MANHOLE LID,RISER RING 4" GRADE STACKABL
DWR	112196	MANHOLE LID,RISER ANGLE RING
DWR	112199	COVER,MANHOLE BOLT-DOWN (WATER)
DWR	112200	SADDLE, 4" X 2", IP 2 Strp,4.40-4.80od.
DWR	112229	UNDERSHIRT, MEDIUM L/S-USE WITH RENTAL
DWR	112231	UNDERSHIRT, LARGE L/S-USE WITH RENTAL
DWR	112233	GLASSES, SAFETY CLEAR (over reg glasses)
DWR	112234	UNDERSHIRT, X-LARGE L/S-USE WITH RENTAL

DWR	112235	UNDERSHIRT, 2X-LARGE L/S-USE WITH RENTAL
DWR	112236	UNDERSHIRT, 3X-LARGE L/S-USE WITH RENTAL
DWR	112245	PAINT,SILVER ONE GALLON BUCKETS
DWR	112246	CARTRIDGE,INK HP LASERJET CE255A
DWR	112261	BLADE,SAW ASPHALT 14 INCH 20MM ARBOR
DWR	112275	SHIRT,GOLF MW,NAVY MEDIUM
DWR	112277	SHIRT,GOLF MW,NAVY LARGE
DWR	112278	SHIRT,GOLF MW,NAVY (XL)
DWR	112279	SHIRT,GOLF MW,NAVY (3 XL)
DWR	112280	SWEATSHIRT, ZIPPER-HOOD, 100% COT,MEDIUM
DWR	112281	SWEATSHIRT, ZIPPER-HOOD, 100% COT,LARGE
DWR	112282	SWEATSHIRT, ZIPPER-HOOD, 100% COT, (XL)
DWR	112283	SWEATSHIRT, ZIPPER-HOOD, 100% COT,(3 XL)
DWR	112289	P.H. STRIPS,MICRO ESSENTIAL #6EGFO
DWR	112311	NAIL,GALV. FLAT SIZE 8-BOX-4NEV6
DWR	112312	NAIL,GALV. FLAT SIZE 12-BOX-4NEV8
DWR	112316	CONCRETE MOVER, 19 1/2 INCH BLADE
DWR	112317	CONCRETE HOE, MIXER 7 INCH BLADE
DWR	112331	FLUORIDE,ACCUVAC, PACK OF 25
DWR	112382	SCREW,SELF TAPPING 1 1/2 INCH #14
DWR	112405	BLADE,SAW LACKMOND 16" FOR DUCTILE IRON
DWR	112423	HOSE FITTING,3/4 MALE JET TRUCK #UE1121
DWR	112424	HOSE FITTING,FEMALE HYDRAJET TR UE1121FS
DWR	112425	HOSE MENDER, 3/4 HYDRAJET TRUCK #UE1122
DWR	112434	CHAIN,POLE SAW 12" STIHL (36100050044)
DWR	112435	BAR,POLE SAW 12" STIHL (30050003905)
DWR	112436	CHAIN, 16" STIHL MS241C (36360050055)
DWR	112437	BAR,CHAIN SAW 16" MS241C (30050004813)
DWR	112438	BAR,CHAIN SAW 18" MS261C (30050004813)
DWR	112443	KIT,COLLISION REPAIR, EJ 5CD250 5 1/4
DWR	112460	MANHOLE LID INFRA-RISER 1 " THICK
DWR	112461	MANHOLE LID INFRA-RISER 2" THICK
DWR	112462	MANHOLE LID-INFRA-RISER 3 " THICK
DWR	112463	MANHOLE RING & COVER, W/REVOLUTION LID
DWR	112467	BEND, 48" DUCTILE IRON 45 DEGREE
DWR	112468	BEND, 48" DUCTILE IRON 22 1/2 DEGREE
DWR	112469	BEND, 48" DUCTILE IRON 11 1/4 DEGREE
DWR	112471	TUBING, 3/4 INCH MUNICIPEX-REHAU 100 FT
DWR	112472	TUBING, 2 INCH MUNICIPEX-REHAU 100 FT
DWR	112473	LOCK, MASTER 6125KA SHORT SHANK
DWR	112474	LOCK, MASTER 6125LJ LONG SHANK
DWR	112475	METER,ULTRA-SONIC 3 INCH

DWR	112480	CCTV, SCREW O-RING 5 X 1.5
DWR	112481	CCTV, O-RING 1mm X 5mm
DWR	112482	CCTV, RAX300 DRUM BELT
DWR	112483	CCTV, CNTRSUNK SCREW M6-12
DWR	112484	CCTV, LIFTER BOLT (ALLEN HEAD)
DWR	112485	CCTV, HANG UP BOLT (FLAT HEAD)
DWR	112491	NUT, 2 " PACK JOINT
DWR	112492	GASKET, 4 INCH RED RUBBER W/BOLT HOLES
DWR	112493	GASKET, 6 INCH RED RUBBER W/BOLT HOLES
DWR	112494	GASKET, 8 INCH RED RUBBER W/BOLT HOLES
DWR	112499	METER,ULTRA-SONIC 4 INCH
DWR	112503	REDUCER,COMPRESSION 4X6 FLANGED
DWR	112580	NIPPLE, 1/8" X 1" NPT 150 304 SS
DWR	112581	NIPPLE, 1/8" X 2" NPT 150 304 SS
DWR	112582	REDUCER BELL, 1/8" X 1/4" NPT 150 304 SS
DWR	112583	REDUCER BUSHING 1/8"X1/4" NPT 150 304 SS
DWR	112584	REDUCER BELL 1/4"X1/2" NPT 150 304 SS
DWR	112586	NIPPLE, 1/4" X 2" NPT 150 304 SS
DWR	112587	NIPPLE, 1/4" X 3" NPT 150 304 SS
DWR	112588	NIPPLE, 1/4" X 4 1/2 " NPT 150 304 SS
DWR	112589	NIPPLE, 3/8" X 1 1/2 " NPT 150 304 SS
DWR	112590	NIPPLE, 3/8" X 2 " NPT 150 304 SS
DWR	112591	NIPPLE, 3/8" X 4" NPT 150 304 SS
DWR	112592	VALVE 3/8" S/S BALL THD VINYL COAT HANDL
DWR	112593	NIPPLE, 1/2" X 1" NPT 150 304 SS
DWR	112594	NIPPLE, 1/2" X 2" NPT 150 304 SS
DWR	112595	NIPPLE, 1/2" X 3" NPT 150 304 SS
DWR	112596	NIPPLE, 1/2" X 4 1/2" NPT 150 304 SS
DWR	112597	NIPPLE, 1/2" X 5" NPT 150 304 SS
DWR	112598	NIPPLE, 1/2" X 6" NPT 150 304 SS
DWR	112599	NIPPLE, 1/2" X 7" NPT 150 304 SS
DWR	112600	REDUCER BELL 1/2" X 3/4" NPT 150 304 SS
DWR	112601	BEND, 3/4 90 DEGREE NPT 150 30 4SS
DWR	112602	COUPLING, 3/4 NPT 150 304 SS
DWR	112603	TEE, 3/4 NPT 150 304 SS
DWR	112604	CAP, 3/4 NPT 150 304 SS
DWR	112605	PLUG HEX, 3/4 NPT 150 304 SS
DWR	112606	UNION, 3/4 NPT 150 304 SS
DWR	112607	NIPPLE, 3/4" X CLOSE NPT 150 304 SS
DWR	112608	NIPPLE, 3/4" X 1 1/2" NPT 150 304 SS
DWR	112609	NIPPLE, 3/4" X 2" NPT 150 304 SS
DWR	112610	NIPPLE, 3/4" X 2 1/2" NPT 150 304 SS

DWR	112611	NIPPLE, 3/4" X 3" NPT 150 304 SS
DWR	112612	NIPPLE, 3/4" X 4" NPT 150 304 SS
DWR	112613	NIPPLE, 3/4" X 5" NPT 150 304 SS
DWR	112614	NIPPLE, 3/4" X 6" NPT 150 304 SS
DWR	112616	VALVE,3/4" SS BALL THD VINYL COAT HANDLE
DWR	112617	NIPPLE, 1" X 2" NPT 150 304 SS
DWR	112618	NIPPLE, 1" X 3" NPT 150 304 SS
DWR	112619	NIPPLE, 1" X 4" NPT 150 304 SS
DWR	112620	NIPPLE, 1" X 5" NPT 150 304 SS
DWR	112621	REDUCER BELL 1" X3/4" NPT 150 304 SS
DWR	112622	REDUCER BELL 1" X 1/2" NPT 150 304 SS
DWR	112623	REDUCER BUSHING 1"X 1/2" NPT 150 304 SS
DWR	112647	CAP,WATCH-YELLOW W/REFLECTIVE STRIPE
DWR	112649	SHIRT, V-NECK GOLF LADIES MW, NAVY MED.
DWR	112651	SHIRT, V-NECK GOLF LADIES MW, NAVY LARGE
DWR	112652	SHIRT, V-NECK GOLF LADIES MW, NAVY XL
DWR	112653	SHIRT, V-NECK GOLF LADIES MW, NAVY 2XL
DWR	112654	FLUORIDE REAGENT,LR CHECKER HC (20) PACK
DWR	112664	UPPER DRAIN VALVE PLATE M&H 4 1/2 547511
DWR	112665	UPPER DRAIN VALVE PLATE M&H 5 1/4 557511
DWR	112666	GASKET, FOR MET 250 HOLD DOWN NUT
DWR	112667	PIN,WEATHER CAP MET 250 5 1/4
DWR	112669	GRAFFITI CLEANER, AEROSOL SPRAY CAN
DWR	112695	METER BOX,COMPOSITE WITH LID
DWR	112702	MANHOLE LID,RISER RING 1 INCH CRETEX
DWR	112703	MANHOLE LID,RISER RING 2 INCH CRETEX
DWR	112715	AIR FILTER KIT,SAW TS800 #4224-007-1013
DWR	112742	EXTENSION,HYDRANT EAST JORDAN 5 1/4 12"
DWR	112763	WATER COOLER, 5 GALLON
DWR	112765	TOWEL, COOLING & EVAPORATIVE
DWR	112771	DUCT SEAL, PANDUIT DS1 ONE LB PACKAGE
DWR	112772	VALVE BOX LID,LOCKING
DWR	112774	CONDITIONER, COATING PROTECTOR SPRAY CAN
DWR	112779	WRENCH,CURB BOX T-HANDLE 36"
DWR	112780	COUPLING,RESTRAINED ROMAC ALPHA 6 "
DWR	112781	COUPLING,RESTRAINED ROMAC ALPHA 8 "
DWR	112782	CONCRETE CLOTH, 30 ' ROLL
DWR	112783	OPERATING NUT,EAST JORDAN HYDRANT
DWR	112784	STEM,UPPER,EAST JORDAN HYDRANT
DWR	112785	STEM,LOWER,EAST JORDAN HYDRANT
DWR	112787	SEAT,BRASS VALVE,EAST JORDAN HYDRANT
DWR	112788	O-RING,SEAT,BRASS VALVE,EAST JORDAN HYD

DWR	112789	RUBBER,SEAT,BRASS VALVE,EAST JORDAN HYD
DWR	112795	PINE BARK, MULCH 2 CU BAG BROWN
DWR	112796	PINE BARK, MULCH 2 CU BAG BLACK
DWR	112797	PINE BARK, MULCH 2 CU BAG RED
DWR	112800	BEND,90 DEG ELBOW 2 INCH BRASS
DWR	112805	NOZZLE, HOSE, 2 1/2 EAST JORDAN HYDRANT
DWR	112806	GASKET,NOZZLE HOSE,2 1/2 EAST JORDAN HYD
DWR	112808	GASKET,NOZZLE PUMPER, 4 1/2 EAST JORDAN
DWR	112817	NOZZLE, PUMPER, 4 1/2 EAST JORDAN
DWR	112819	METER,3/4 INCH ULTRASONIC
DWR	112824	ASPHALT REPAIR,AQUAPHALT 3.5 GALLON CON.
DWR	112827	SHOVEL,ROUND POINT SHORT HANDLE FIBERGLA
DWR	112851	SADDLE, 2 X 3/4 FOR MUNICIPEX
DWR	112852	SADDLE, 2 X 1" FOR MUNICIPEX
DWR	112853	COUPLING,RESTRAINED ROMAC ALPHA 10"
DWR	112854	COUPLING,RESTRAINED ROMAC ALPHA 12"
DWR	112972	BATTERY, AAAA
DWR	112986	SLIPPER HOSE GUIDE,TIGER TAIL,SMALL 2"
DWR	113007	EXTENSION,HYDRANT EAST JORDAN 5 1/4 24"
DWR	113008	EXTENSION,HYDRANT EAST JORDAN 5 1/4 36"
DWR	113331	Curb Stop, 2" FIP X FLG TELESCOPING
DWR	113340	SHIRT, GOLF RB 100% COTTON MEDIUM
DWR	113342	SHIRT,GOLF RB 100% COTTON LARGE
DWR	113343	SHIRT,GOLF RB 100% COTTON XLARGE
DWR	113344	SHIRT, GOLF RB 100% COTTON 2XLARGE
DWR	113345	SHIRT, GOLF RB 100% COTTON 3XLARGE
DWR	113347	CMP METAL 15" SAFETY FLARED END SECTION
DWR	113403	SOCKET, 1 1/4" 6PT 1/2 DRIVE
DWR	113410	CCTV, QC HUB CAP
DWR	113416	JACKET, HI-VIZ SZ. MEDIUM
DWR	113418	JACKET, HI-VIZ SZ. LARGE
DWR	113419	JACKET, HI-VIZ SZ. X-LARGE
DWR	113420	JACKET, HI-VIZ SZ. 2X-LARGE
DWR	113421	JACKET, HI-VIZ SZ. 3X-LARGE
DWR	113422	JACKET, HI-VIZ SZ. 4X-LARGE
DWR	113424	HEAD, TRIMMER STIHL FS240R
DWR	113426	RAKE GARDEN 24" 24 TINES 51" FIBERGLASS
DWR	113439	TRAP, FRUIT FLY 2-pack
DWR	114234	ADAPT MIP 2" AY MCD 74753-55 IP GALV
DWR	114235	ADAPT MIP 1 1/2" AY MCD 74753-55 IP GALV
DWR	114617	WIRE, TRACER 12GA X 500' ROLL
DWR	114420	STEM, UPPER ROD AD 5 1/4 B62B

DWR	114436	PRE-MIX 50:1 TRU-FUEL
DWR	112502	METER,ULTRA-SONIC 6 INCH
DWR	112530	METER,ULTRA-SONIC 8 INCH
DWR	114622	3" FLG X FLG X 12"Lay SPOOL w/2"Tap Cen
DWR	114623	4" FLG X FLG X 12"Lay SPOOL w/2"Tap Cen
DWR	114650	COUPLING,RESTRAINED XL ROMAC ALPHA 8"
DWR	114248	PANTS, HI-VIZ SZ. MEDIUM / LARGE
DWR	114281	PANTS, HI-VIZ SZ. X-LARGE / 2X-LARGE
DWR	114283	PANTS, HI-VIZ SZ. 3X-LARGE / 4XLARGE
DWR	114285	PANTS, HI-VIZ SZ. 5X-LARGE / 6XLARGE
DWR	105975	TOWEL, PAPER ROLL ISSUE BY CASE
DWR	103048	KIT, SAFETY REPAIR, MUELLER 5 1/4"
DWR	103026	KIT, COLLISION REPAIR AD MARK 73
DWR	103025	KIT, COLLISION REPAIR AD B62B5 1/4"86/UP

Appendix E – Spill Calculation Procedures

A-01: Sanitary Sewer Overflow (SSO) Mitigation

General Information – this SOP applies ONLY to Field Crew activities

The Corrective Maintenance Section Manager is responsible for ensuring non-field Activities such as notifications, reporting, etc. are conducted as set out in the County SSO Response Documents.

This SOP is intended to assist Gwinnett County Water Resources field crews with the primary goal of identifying and repairing sanitary sewer releases. Multiple activities as set out below may be underway at the same time - as safe operations allow - to minimize the impacts of the overflow.

A "Spill**"** (also referred to as reportable spill) is any discharge of raw sewage by a Publicly Owned Treatment Works (POTW) to the waters of the state.

A "Major Spill" is any discharge of raw sewage that 1) equals or exceeds 10,000 gallons or 2) results in water quality violations in the water of the state.

Guidelines for estimating spill volumes are provided in Attachment 1.

Responsibilities

Sewer Corrective Maintenance Coordinator, Investigator, On-Call Coordinator (if after hours), Repair Crew, Dispatch, Administrative Support Associate

Procedure

Spill by Overflowing Manhole, Wetwell, or Broken Gravity Pipe

1. First responder may be an investigator or on-call coordinator and will investigate the report of possible overflow or back-up. The goal is to investigate as soon as possible or within two hours of initial report.
2. Upon arriving at the site, set up work zone according to safety procedures (Safety Manual located in DWR Library).
3. Investigator walks line and locates overflowing manhole or evidence of ruptured pipe.
4. If spill is suspected, but no obvious source can be determined, get test sample and take to DWR Lab for fecal count analysis.
5. Investigator contacts Coordinator/Dispatch and informs of condition.
6. Investigator follows the path of the overflow and determines:
    a. Where the flow stops moving. If it is still moving, estimate its path.
    b. If sewage has reached a storm water drain.
    c. If sewage has reached a body of water.
    d. Potential containment areas.
7. If a County spill, the investigator contacts the Sewer Corrective Maintenance Coordinator who assigns a Response Crew and immediately directs them to the site.

8. If a “spill” or “major spill”, the investigator is to immediately send an email to the Field Operations Deputy Director, Assistant Director, Corrective Maintenance Section Manager, Preventive Maintenance Section Manager, Contracts/Support Section Manager and DWR Public Information Officer. If the spill involves a pump station also copy the Facilities Deputy Director notifying them that a “spill” or “major spill” has occurred and the location. This should be done immediately and not wait until the flow is stopped or the spill volume is calculated.
9. Response Crew goes to the location of the reported problem.
10. Crew secures site and implements additional safety measures as needed.
11. Response crew sets up any practical measures to minimize or prevent the overflowing sewage from reaching water body, storm drains, or private properties. Measures include building dikes or berms, excavating trenches, using
12. pump truck, collecting flows in road-side ditches or other natural swales. Care is to be used to minimize exposure of public or crews to wastewater.
13. If line is to be flushed, Response Crew follows SOP A-02 for flushing.
14. Coordinator and Response Crew continue walking the downstream line until a dry or low-flowing manhole is found.
    a. Crew extends safety measures and work zone as appropriate.
    b. Coordinator determines whether flow control is practical or needed. Reference SOP A-17 for Flow Control.
    c. Crew determines depth of flow at the low-flowing or dry manhole before flushing line.
    d. Crew flushes line in the upstream direction from this manhole to remove blockage according to SOP A-02 (Back-ups in Main Line) or A-03 (Back Ups - Service Lateral). More than one blockage may be in the main.
    e. Crew visually identifies type of blockage removed when possible (grease, roots, debris, etc.).
    f. After clearing blockage, crew returns to the overflowing manhole and visually verifies that flow in the main has been restored.
    g. Crew proceeds to manhole upstream of overflow location to verify flow is restored.
    h. Crew documents the time at which flow is restored to the main.
        i. The time recorded should reflect the time that overflow stops escaping from the sewer system.
        ii. Re-measure depth of flow in previously dry/low-flowing manhole when flow appears to have stabilized and surcharge is gone from upstream manhole.
        iii. Calculate flow using the attached chart for the depth before clearing line and depth after clearing line. Subtract second calculated flow from the first. Multiply this flow value times the length of the overflow time. This is the total spill volume.
        iv. Subtract the volume of spill which was contained on-site by the restoration crew from the total spill volume. This is the volume to be reported.
        v. If an accurate volume of the release cannot be immediately determined, the Repair Coordinator should estimate the volume and provide on the SSO NOTIFICATION FORM as an estimate before the end of the work shift. Clearly identify the volume reported as an ESTIMATE.
        vi. If the estimated volume released is approaching 10,000 gallons, the event should be treated as a MAJOR SPILL until the actual volume of the spill can be accurately determined.
15. If Response Crew determines need for repair in the main or manhole, Coordinator immediately dispatches repair crew to the site.

16. All SSO's on gravity mains are to be CCTV inspected to identify the cause, following the restoration of flow. The inspection is to document one segment upstream and downstream of the overflow location at a minimum. Refer to SOP A-05 for CCTV Surveillance.
17. Response crew cleans site to remove all solids deposited, rakes area, spreads lime to disinfect as appropriate. Standing fluids are to be removed by pump truck if possible, and wet soil is to be removed and hauled to landfill. Impervious areas are to be washed down using a jet truck or similar equipment. Remaining area is filled with rock.
18. Response Crew completes work order with all events and activities and submits to the Coordinator for review and approval.
19. Response Coordinator verifies the depth of flow in the manhole previously used to access the blocked main.
20. Response Coordinator determines spill amount using the methods shown in Attachment 1 for depth of flow in downstream manhole or escaping flow from a manhole.
21. COORDINATOR MUST RETURN THE COMPLETED SPILL NOTIFICATION FORM TO DISPATCH PRIOR TO LEAVING AT THE END OF THE SHIFT.
22. If a spill reaches a waters-of-the-State,
    a. The Response Coordinator shall have spill signs posted and return to remove the Spill Signs after 7-days.
    b. Samples must be collected by a properly trained person.
        i. If a major spill occurs during weekend or holiday, Coordinator collects Spill Samples
        ii. Response Coordinator completes Chain-of-Custody form and sample labels and delivers samples to the testing facility
        iii. During other times – Response Coordinator is to coordinate with Industrial Pretreatment and lab for sampling
23. The Collections Section Manager is responsible for ensuring non-field Activities such as notifications, reporting, etc. are conducted as set out in the County SSO Response Documents. The Response Coordinator is responsible for ensuring all appropriate data and measurements are collected during the repair for accurate reporting and evaluation.

Spill on Force Main Pipe Due to Rupture or Cut

1. First Responder investigates report of possible overflow.
2. Upon arriving at the site, set up work zone according to safety procedures (Safety Manual located in DWR Library).
3. Investigator walks line and locates evidence of ruptured pipe.
4. Investigator contacts Coordinator and Dispatch and informs of condition.
5. Investigator follows the path of the overflow and determines:
    a. Where the flow stops moving. If it is still progressing, estimate the continuing path.
    b. If sewage has reached a storm water drain.
    c. If sewage has reached a Water-of-the-State.
    d. Potential containment areas
6. Reference the Force Main Contingency Plan if one exists for the damaged main.
7. Coordinator assigns Response Team:
    a. GCDWR Response Crew.

b. Emergency Repair Crew (Internal or Contract).

c. Initiate contact with Pump Stations Manager.

i. Identify the location of the rupture and

ii. The force main impacted.

8. Repair Crew goes to the location of the reported problem.
9. Crew secures site and implements additional safety measures as needed.
10. Response crew sets up any practical measures to minimize or prevent the overflowing sewage from reaching waters-of-the-state, storm drains, or private properties. Measures include building dikes or berms, excavating trenches, using pump truck, collecting flows in road-side ditches or other natural swales. Care is to be used to minimize exposure of public or crews to wastewater.
11. Repair Coordinator contacts Pump Station Coordinator, Dispatch and Central Facility to:
    a. arrange potential shut down of Pump Station,
    b. determine length of time pump station can be out of operation,
    c. Identify critical observation point,
        i. The first location an overflow will occur after pump station shuts down may not be at the station.
    d. Arrange pump-truck support as appropriate, and
    e. Identify receiving manhole for Pump Truck unloading or By-Pass pumping that does not return flow to the pump station.
    f. Repair Coordinator calls in an emergency Utility Locate via Dispatch. However, do not delay excavation while waiting for utility locate. Use extreme caution during the excavation process
12. Repair Crew excavates down to main at the location of the surfacing discharge
13. Crew continues to expose pipe until the apparent length of impacted pipe is exposed
14. Coordinator determines if a Temporary Point Repair is appropriate depending on type of damage identified and the conditions surrounding the repair.
    a. Install temporary repair, secure the site, restore flow in the force main, and return to site when full repair can be performed under controlled conditions.
15. Crew performs repair as set out in SOP-07 using appropriate methods and equipment
16. Coordinator documents the times at which:
    a. Containment of flows in the field is achieved, and
    b. The force main is returned to service.
17. Coordinator or Pump Station crew estimates the time that the pump was running after rupture occurred.
18. From pump run times, Repair Coordinator estimates volume of flow released from the force main that was not successfully contained. Contact OTS or Section Manager to assist in calculations as needed.
    a. Begin with pumped volume during the time the force main was damaged
    b. Reduce volume of the release by the volume managed / contained by the field crews
    c. Reduce volume of the release by the volume delivered to the treatment plant by the force main during the time the force main was damaged
19. If a spill reaches a waters-of-the-State,
    a. The Response Coordinator shall have spill signs posted and return to remove the Spill Signs after 7-days.
    b. Samples must be collected by a properly trained person.

i. If a major spill occurs during weekend or holiday, Coordinator collects Spill Samples

ii. Response Coordinator is to complete Chain-of-Custody form and sample labels and deliver samples to the testing facility

iii. During other times – Response Coordinator is to coordinate with Industrial Pretreatment and lab for sampling

20. Response crew cleans site to remove all solids deposited, rakes area, spreads lime to disinfect as appropriate. Standing fluids are to be removed by pump truck if possible, and wet soil is to be removed and hauled to landfill. Impervious areas are to be washed down using a jet truck or similar equipment and disinfects as appropriate.
21. Response Crew completes the Work Order and submits to the Coordinator for review and approval.
22. Crew remains on site to assist in clean-up and other activities until dismissed by the Response Coordinator.
23. The Collections Manager is responsible for ensuring non-field Activities such as notifications, reporting, etc. are conducted as set out in the County SSO Response Documents. The Response Coordinator is responsible for ensuring all appropriate data and measurements are collected during the repair for accurate reporting and evaluation. **The Repair Coordinator must complete and return the Notification of Spill form to Dispatch for processing prior to leaving work at the end of the shift.**

Attachments

Attachment 1: Reportable Reportable SSO Notification Action Plan

Attachment 1

FIELD OPERATIONS DIVISION

Reportable Spill Notification Action Plan

SANITARY SEWER OVERFLOWS

Revised October 2018

A "Spill**"** (also referred to as reportable spill) is any discharge of raw sewage by a Publicly Owned Treatment Works (POTW) to the waters of the state.

A "Major Spill" is any discharge of raw sewage that 1) greater or equal to 10,000 gallons or 2) results in water quality violations in the water of the state.

Waters of the State means any and all rivers, streams, creeks, branches, lakes, reservoirs, ponds, springs, wells, wetlands, and all other bodies of water that are actively flowing to any of the above at the time of the spill, which are not entirely confined and retained completely upon the property of a single individual, partnership, or corporation.

This procedure was developed based on the requirements set forth in O.C.G.A 391-3-6-.05 and NPDES Permit No. GA0026433 for Crooked Creek WRF/F Wayne Hill WRC.

NOTIFICATION REQUIREMENTS

Within 24 hours of notification of the reportable spill:

- Notification of the reportable spill or major reportable spill must be sent to EPD. The notification must be within 24 hours of the spill and include:
    - Date of the spill or major spill
    - Location and cause of the spill or major spill
    - Estimated volume discharged and name of receiving waters; and
    - Corrective action taken to mitigate or reduce the adverse effects of the spill or major spill. Examples of corrective actions include:
        - Capturing the overflowing wastewater at the site to the extent possible cleaning the area at and downslope of the spill
        - Spreading lime
        - Collecting any standing water at the spill location and disposing into the sewer system
        - Posting warning signs at the location of the spill and impacted waterway
- The spill or major spill must be reported to the local health department including the information above within 24 hours of spill via the Water Reclamation Program Coordinator.
- The spill or major spill must be reported to the local media (television, radio and print media) including the information above.
- A notice must be posted as close as possible to where the spill or major spill occurred and where the spill or major spill entered State waters. The notice shall include at a minimum the same information required above. The intent

of this requirement is to notify citizens, who may come into contact with the affected water, that the spill or major spill has occurred. Post additional notices of the spill or major spill along the portions of the waterway affected by the incident (i.e. at bridge crossings, trails, boat ramps, recreational areas, and other points of public access to the affected waterway). These notices shall remain in place for a minimum of seven days after the spill or major spill has ceased.

- For major spills only:
    - A monitoring program must be established for any major spill and include monitoring the receiving stream for: dissolved oxygen, fecal coliform bacteria, pH and temperature. The program must include sufficient upstream and downstream sampling points to accurately characterize the impact of the major spill. The results of the monitoring must be reported to EPD and all downstream public agencies using the affected waters as a source of a public water supply within 20 miles.
    - Provide notice to every county, municipality or other public agency whose public water supply is within 20 miles downstream and to any others which could potentially be affected by the major spill.

Within 5 days of notification of the spill:

- A written report must be submitted to EPD including the information in the first bullet above.

Within 7 days of a <u>major</u> spill:

- A notice of the major spill must be published in the legal organ of the County (Gwinnett Daily Post) including the information in the first bullet above.

<u>PROCEDURE</u>

This procedure applies to spills and major spills. Dispatch must be notified of all spills immediately so they can begin the EPD notification process.

Within 24 hours of notification of the spill:

- As soon as possible, **Coordinator or Investigator** notifies Dispatch that this will be a reportable spill and to start the Spill Notification process.
- **Dispatch** starts the Spill Notification form and saves to SharePoint in the Reportable Spill Notifications Library and emails Contact List 1 that the form is available and the name of the file. This allows necessary staff to know the 24-hour window for completing the notification process.
- If there is evidence of a fish kill or the spill is greater or equal to 10,000 gallons, the **Coordinator** notifies **Dispatch** to call the EPD Emergency Hotline at 800-241-4113 to report the spill. If there is a fish kill, the spill , regardless of size, will be treated as a Major Spill.
- For Major Spills only – **Coordinator** notifies Industrial Pretreatment to begin water and stream sampling. If a weekend, Coordinator takes sample and notifies DWR Environmental Lab.
- **Coordinator** completes the form and emails that it is ready for review to Contact List 1.
- The **Section Manager or Deputy Director** reviews the form and emails Contact List 1 that it is ready to be sent to EPD.

- **Dispatch** e-mails page 1 of the Spill Notification to EPD at 404-656-2453. A copy of the Spill Notification is saved on SharePoint. Dispatch scans page 1 and emails to Spill Notification Contacts. Dispatch completes page three with all contacts notified.
- For Major Spills only – **Dispatch** notifies downstream municipalities, agencies, or affected entities (citizens, homeowners groups, etc.) with an intake on the effected waterway within the 20-mile distance by telephone as soon as possible. Lists of downstream contacts, within 20 miles of the spill, may be found in Dispatch. Dispatch notes all downstream contacts that were contacted on page 3 of the Spill Notification form.
- **Section Manager or Deputy Director** works with the **DWR Public Information Officer** to prepare and distribute the media notice to print, radio and TV news media and the Health Department.
- **Coordinator** works with crews to post signs at the spill site, the location where the sewage entered State waters and any public access areas downstream of spill within a reasonable distance based on the magnitude of the spill.

Within 5 days of notification of the spill:

- The **PA Group** prepares a final report which is reviewed and signed by a **Section Manager or Deputy Director**. The **PA Group** e-mails the final report to EPD.
- For major spills only - the **PA Group** prepares a notice of the major spill which is approved by the **DWR Public Information Officer** and a **Section Manager or Deputy Director**. The **PA Group** submits the notice to be published as a legal ad in the Gwinnett Daily Post. The legal ad must run within 7 days of the major spill.

For at least one year after a major spill:

- **Industrial Pretreatment** completes the water monitoring program of the area affected by the spill according to the guidelines set forth by the Rules and Regulations for Water Quality Control, Chapter 391-3-6. The results of the monitoring must be reported to EPD and all downstream public agencies using the affected waters as a source of a public water supply.

EMPLOYEE RESPONSIBILITIES

Employee Receiving Initial Notification of Overflow

- Contact Dispatch IMMEDIATELY with pertinent information including time and date, name and telephone number of person calling, location of overflow, and names of employees responding to call.

Coordinator

- Use DWR's Sanitary Sewer Flow Rates for Spill Determinations chart or the calculator in the Spill Notification form to calculate estimated spill amount. For gravity sewer spills:
    1. Measure the flow to depth of the first downgrade manhole of the spill immediately upon arrival on site.
    2. Make necessary corrections to allow the flow to restore to a normal flow.
    3. Measure depth of normal flow in same downgrade manhole. Subtract the two numbers.
    4. Calculate the spill.
        a. Using the chart, the difference in inches of the two measurements under the pipe size in inches is a factor (number). Multiply this number by the time in minutes the spill occurred. This will give an estimated number of gallons overflowed. These directions are listed on the bottom of the chart.
        b. Using the calculator, enter the before and after depth and time in minutes and the form will calculate the spill volume.

For force main overflows, use calculator in the Spill Notification form. For pump station spills, use pump station data to determine volume.

- Coordinator completes the Spill Notification form including response information, spill information, waterways and spill volume and emails that it is ready for review to Contact List 1.
- For Major Spills only – Coordinator notifies Industrial Pretreatment to begin water and stream sampling. If a weekend, Coordinator takes sample and notifies DWR Environmental Lab.
- Coordinator determines where signs must be posted. Coordinator works with crews to post signs at the spill site, the location where the sewage entered State waters and any public access areas downstream of spill within a reasonable distance based on the magnitude of the spill. Blank sign forms are in Dispatch and Coordinator's office.

Dispatch

- Dispatch starts the Spill Notification form and saves to SharePoint in the Spill Notifications Library and emails Contact List 1 that the form is available and the name of the file. This allows necessary staff to know the 24-hour window for completing the notification process.
- If there is evidence of a fish kill or the spill is equal to or over 10,000 gallons, **Dispatch** calls the EPD Emergency Hotline at 800-241-4113 to report the spill. If there is a fish kill, the spill, regardless of size, will be treated as a Major Spill.
- Upon receiving approved form from Section Manager or Deputy Director, dispatch e-mails page 1 of the Spill Notification form to EPD at 404-656-2453. A copy of Spill Notification is saved to SharePoint. Dispatch scans page 1 and emails to Spill Notification Contacts. Dispatch completes page three with all contacts notified.
- For Major Spills only – Dispatch notifies downstream municipalities, agencies, or affected entities (citizens, homeowners groups, etc.) with an intake on the effected waterway within 20-miles of the spill location by telephone as soon as possible. Lists of downstream contacts, within 20 miles of the spill, may be found in Dispatch. Dispatch notes all downstream contacts that were contacted on page 3 of the Spill Notification form.

PA Group

- Within 5 days of the spill the PA Group prepares a final report which is reviewed and signed by a Section Manager or Deputy Director. The PA Group e-mails the final report to EPD.
- For major spills only, the PA Group prepares a notice of the major spill which is approved by the DWR Public Information Officer and a Section Manager or Deputy Director. The PA Group submits the notice to be published as a legal ad in the Gwinnett Daily Post. The legal ad must run within 7 days of the major spill. The PA Group emails a copy of the public notice to Cindy Keel.
- The PA Group emails the final report to the Spill Notification Contacts on page 3 of the Spill Notification form.
- Maintain permanent file of **ALL** spills.

Contact List 1

Position	**DWR Division**
Assistant Director	Department of Water Resources
Deputy Director	Field Operations
Division Director	Environmental Compliance and Permitting
Section Manager	Field Operations- Corrective Maintenance
Section Manager	Field Operations- Preventive Maintenance
Section Manager	Field Operations- Contracts and Support

Section Manager	Field Operations- Warehouse
Section Manager	Facility Operations- Pump Stations
Trades Coordinator	Field Operations- Sewer Corrective Maintenance
Trades Coordinator	Field Operations- Sewer Preventive Maintenance
Water Quality Supervisor	Field Operations- FOG Preventive Maintenance
Trades Supervisor	Field Operations- Sewer Corrective Maintenance
Program Analyst III	Field Operations- Preventive Maintenance
Program Analyst II	Field Operations- Preventive Maintenance
Construction Manager II	Field Operations- Contracts and Support
Water Resources PIO	Environmental Compliance and Permitting
Water Resources Program Director	Environmental Compliance and Permitting
Resources Marketing Specialist	Environmental Compliance and Permitting
Water Quality Associate II	Field Operations- FOG Preventive Maintenance
Program Analyst I	Field Operations- Preventive Maintenance
DWR Dispatch e-mail group	Field Operations- Contracts and Support

Contact List 2

Position	**DWR Division**
Department Director	Department of Water Resources
Assistant to Director	Department of Water Resources
Assistant Director	Department of Water Resources
Deputy Director	Field Operations
Assistant to Deputy Director	Field Operations
Deputy Director	Engineering
Division Director	Environmental Compliance and Permitting
Section Manager	Field Operations- Corrective Maintenance
Section Manager	Field Operations- Preventive Maintenance
Section Manager	Field Operations- Contracts and Support
Section Manager	Field Operations- Warehouse
Section Manager	Facility Operations- Pump Stations
Engineer V	Engineering
Panning Manager	Environmental Compliance and Permitting
Water Quality Coordinator	Environmental Compliance and Permitting

Trades Coordinator	Field Operations- Sewer Corrective Maintenance
Trades Coordinator	Field Operations- Sewer Preventive Maintenance
Water Quality Supervisor	Environmental Compliance and Permitting
Water Quality Supervisor	Field Operations- FOG Preventive Maintenance
Program Analyst III	Field Operations- Preventive Maintenance
Program Analyst II	Field Operations- Preventive Maintenance
Construction Manager II	Field Operations- Contracts and Support
Water Resources PIO	Environmental Compliance and Permitting
Water Resources Program Director	Environmental Compliance and Permitting
Resources Marketing Specialist	Environmental Compliance and Permitting
Water Quality Associate II	Field Operations- FOG Preventive Maintenance
Program Analyst I	Field Operations- Preventive Maintenance
DWR Dispatch e-mail group	Field Operations- Contracts and Support
EMA- Homeland Security	N/A

Contact List 3

Position	**DWR Division**
Deputy Director	Field Operations
Assistant to Director	Department of Water Resources
Section Manager	Field Operations- Corrective Maintenance
Section Manager	Field Operations- Preventive Maintenance
Section Manager	Field Operations- Contracts and Support
Section Manager	Field Operations- Warehouse
Water Quality Supervisor	Field Operations- FOG Preventive Maintenance
Program Analyst III	Field Operations- Preventive Maintenance
Program Analyst II	Field Operations- Preventive Maintenance
Water Resources PIO	Environmental Compliance and Permitting
Water Resources Program Director	Environmental Compliance and Permitting
Resources Marketing Specialist	Environmental Compliance and Permitting
Water Quality Associate II	Field Operations- FOG Preventive Maintenance
Program Analyst I	Field Operations- Preventive Maintenance

Figure 1 - Appendix E - Example Documentation for Determining Spill Amount

Gwinnett County Department of Public Utilities
Collection

Sanitary Sewer Flow Rates for Spill Determinations

Gallons per minute @ V= 2.0 fps & n= 0.013

Depth of Flow (inches) — Pipe Size - Inches

	8	10	12	15	18	21	24
1	20	25	30	35	40	45	50
2	60	70	80	85	95	105	125
3	110	125	135	150	175	185	210
4	160	180	200	235	260	285	320
5	190	240	280	315	360	380	445
6	260	310	355	415	455	500	555
7	290	370	425	495	570	620	695
8	320	430	500	600	680	760	815
9		465	575	690	800	890	965
10		490	625	775	905	1005	1120
11			685	870	1020	1135	1275
12			715	935	1130	1260	1410
13				1020	1240	1415	1580
14				1070	1345	1520	1690
15				1105	1425	1650	1850
16					1495	1760	1990
17					1550	1880	2110
18					1595	1980	2285
19						2050	2410
20						2115	2530
21						2160	2630
22							2700
23							2765
24							2820

SPILL CALCULATION PROCEDURES

1. Determine the time Public Utilities was initially notified of a potential SSO..
2. Measure the flow, if any, in inches in the manhole immediately downstream of the blockage and determine the flow rate at this point from the table above.
3. Clear blockage as needed, note time, allow flow to stabalize to a normal flow rate.
4. After flow reaches normal flow rate, measure the flow in the same location as in step # 2 and determine the normal flow rate from table above.
5. Subtract the flow rate in step # 2, in any, from the normal flow rate taken after the blockage was cleared in step #4 and multiply this number by the length of time from notification until the spill was corrected. (blockage cleared & no overflow)
6. Report amount spilled as required per SOP Spill Reporting Procedure.

Figure 2 - Appendix E - Spill Calculation Table

Estimating Water Loss
Force Mains

If losses exceeds 50% - contact Central to get confirmation.

Flow Lost from a Force Main Beam-Break

			Multiply Pump Station Flow to get Flow Lost Through the Crack															
Pipe Diam	Pipe Area	circumference	(1/16)	Width of Crack (Inch)														
(Inch)	sf	inch	0.0625	0.1	0.2	0.3	0.4	0.5	0.75	1	1.25	1.5	1.75	2	2.5	3	4	5
2	0.02	6	0.111	0.167	0.286	0.375	0.444	0.500										
4	0.09	13	0.059	0.091	0.167	0.231	0.286	0.333	0.429	0.500								
6	0.20	19	0.040	0.063	0.118	0.167	0.211	0.250	0.333	0.400	0.455	0.500						
8	0.35	25	0.030	0.048	0.091	0.130	0.167	0.200	0.273	0.333	0.385	0.429	0.467	0.500				
10	0.55	31	0.024	0.038	0.074	0.107	0.138	0.167	0.231	0.286	0.333	0.375	0.412	0.444	0.500			
12	0.79	38	0.020	0.032	0.063	0.091	0.118	0.143	0.200	0.250	0.294	0.333	0.368	0.400	0.455	0.500		
15	1.23	47	0.016	0.026	0.051	0.074	0.096	0.118	0.167	0.211	0.250	0.286	0.318	0.348	0.400	0.444		
16	1.40	50	0.015	0.024	0.048	0.070	0.091	0.111	0.158	0.200	0.238	0.273	0.304	0.333	0.385	0.429	0.500	
18	1.77	57	0.014	0.022	0.043	0.063	0.082	0.100	0.143	0.182	0.217	0.250	0.280	0.308	0.357	0.400	0.471	
20	2.18	63	0.012	0.020	0.038	0.057	0.074	0.091	0.130	0.167	0.200	0.231	0.259	0.286	0.333	0.375	0.444	0.500
21	2.41	66	0.012	0.019	0.037	0.054	0.071	0.087	0.125	0.160	0.192	0.222	0.250	0.276	0.323	0.364	0.432	0.488
24	3.14	75	0.010	0.016	0.032	0.048	0.063	0.077	0.111	0.143	0.172	0.200	0.226	0.250	0.294	0.333	0.400	0.455
28	4.28	88	0.009	0.014	0.028	0.041	0.054	0.067	0.097	0.125	0.153	0.176	0.200	0.222	0.263	0.300	0.364	0.417
30	4.91	94	0.008	0.013	0.026	0.038	0.051	0.063	0.091	0.118	0.143	0.167	0.189	0.211	0.250	0.286	0.348	0.400
36	7.07	113	0.007	0.011	0.022	0.032	0.043	0.053	0.077	0.100	0.122	0.143	0.163	0.182	0.217	0.250	0.308	0.357
42	9.62	132	0.006	0.009	0.019	0.028	0.037	0.045	0.067	0.087	0.106	0.125	0.143	0.160	0.192	0.222	0.276	0.320
48	12.57	151	0.005	0.008	0.016	0.024	0.032	0.040	0.059	0.077	0.094	0.111	0.127	0.143	0.172	0.200	0.250	0.294

If NOT a Beam-Break Insert data into each green field below.

Pipe Diam		inch		
Length of Hole		inch		
Width of Hole		inch		
Pump Flow		gallons		gpm
Run Time				minutes

Pipe Area	#N/A	sf	#N/A	sq-inch
Percent Lost	#N/A			
Total Lost	#N/A	Gallons	#N/A	gallon

Figure 3 - Appendix E - Spill Calculation Table for Force Main Spills

Appendix F – Capital Improvement Plan

(Changes Monthly)

CIP Tracking Monthly Report

Project: F-1387											
Status	**Project**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**Total**	**Priority Score**	**SAP 2023 Total**
Design	**F-1387-02** Downstream of Gas South District F1387-02 (504 Fund)			$2,142,598	$4,010,000				**$6,152,598**	0	$0
	F-1387-03 Rock Springs Medical Sewer (504 Fund)		$10,091,159	$3,345,888					**$13,437,047**	0	$0
	F-1387-07 Duluth Area NCI Expansion - Phase 2 (504 Fund)		$5,276,832	$3,522,505					**$8,799,337**	0	$0
	F-1387-16 Gwinnett Place Mall Sewer - Phase 2 (504 Fund)			$3,404,575	$5,000,000				**$8,404,575**	0	$0
	F-1387-21 F-1387-21 Interstate Crossings - I-85 and SR316 (504 Fund)		$10,000	$13,154,957					**$13,164,957**	0	$0
	F-1387-34 Cascade Falls Gravity Sewer and PS Decommissioning	$275,413	$147,623	$4,311,740					**$4,734,776**	0	$263,331
	F-1387-38 Duluth Pinecrest Sewer Project	$132,377							**$132,377**	0	$132,377
	F-1387-39 Duluth Hill Sewer Project	$110,020							**$110,020**	0	$130,766
	F-1387-49 Fork Creek Interceptor Sewer Main Replacement	$144,831			$74,897				**$219,728**	0	$144,831
	F-1387-Pending Drowning Creek Sewer Line	$100,000	$700,000	$1,000,000	$9,000,000	$9,000,000			**$19,800,000**	0	$0
Construction	**F-1387-19** Evermore CID Sewer Modifications	$253,812	$4,750,000	$1,900,000					**$6,903,812**	0	$53,812
	F-1387-41 F-1387-41 Turkey Crossing Sewer - Gravity Sewer Interceptor	$576,177	$2,498,481	$277,609					**$3,352,267**	0	$849,455
	F-1387-43 F1387-43 - Ridge Road PS Decommissioning	$5,110,230							**$5,110,230**	0	$5,035,160
Completed	**F-1387-40** F-1387-40 GA Twenty Trailer DP	**Not in CIP Tracker**								0	$2,268
Program/Planning	**F-1387-45** F-1387-45 Professional Services Support - CAT B PPI	$60,000							**$60,000**	0	$60,000
	F-1387-46 Professional Services Support - CAT B ESI	**Not in CIP Tracker**								0	$70,000
	F-1387-47 F-1387-47 Professional Services Support - CAT B Prime PPI	**Not in CIP Tracker**								0	$70,000
	F-1387-48 F-1387-48 Professional Services Support - CAT B Barge PPI	**Not in CIP Tracker**								0	$70,000
Pending	**F-1387-30** Gravity Sewer Enhance and Expansion (Contingency)	$1	$1	$1	$1	$1	$1	$1	**$7**	0	$609,989
	F-1387-Pending Mitchell Road Sewer	$150,000	$166,900						**$316,900**	3.1	$0
	F-1387 Subtotal	$6,912,861	$23,640,996	$33,059,873	$18,084,898	$9,000,001	$1	$1	**$90,698,632**		**$7,491,989**
	F-1387 Budget	$7,491,989	$0	$0	$0	$0	$0	$0	**$7,279,721**		
	F-1387 Block	$0							**$0**		
	Funds Available	$579,128	($23,640,996)	($33,059,873)	($18,084,898)	($9,000,001)	($1)	($1)	**($83,418,911)**		
	F-1387 Total	**$6,912,861**	**$23,640,996**	**$33,059,873**	**$18,084,898**	**$9,000,001**	**$1**	**$1**	$90,698,632		**$7,491,989**

Project: F-1456											
Status	**Project**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**Total**	**Priority Score**	**SAP 2023 Total**
Design	**F-1456**- Duluth Pinecrest Sewer Project 2024		$189,038	$8,527,593					**$8,716,631**	0	$0
	F-1456 Subtotal		$189,038	$8,527,593					**$8,716,631**		**$0**
	F-1456 Budget	$0	$0	$0	$0	$0	$0	$0	**$0**		
	F-1456 Block	$0							**$0**		
	Funds Available	$0	($189,038)	($8,527,593)	$0	$0	$0	$0	**($8,716,631)**		
	F-1456 Total		**$189,038**	**$8,527,593**					$8,716,631		**$0**

Project: F-1457											
Status	**Project**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**Total**	**Priority Score**	**SAP 2023 Total**
Design	**F-1457**- Duluth Hill Sewer Project 2024		$268,551	$5,221,464					**$5,490,015**	0	$0
	F-1457 Subtotal		$268,551	$5,221,464					**$5,490,015**		**$0**
	F-1457 Budget	$0	$0	$0	$0	$0	$0	$0	**$0**		
	F-1457 Block	$0							**$0**		
	Funds Available	$0	($268,551)	($5,221,464)	$0	$0	$0	$0	**($5,490,015)**		
	F-1457 Total		**$268,551**	**$5,221,464**					$5,490,015		**$0**

Project: F-1473											
Status	**Project**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**Total**	**Priority Score**	**SAP 2023 Total**
Design	**F-1473**- Wolf Creek Interceptor F-1473		$5,181,621	$8,098,704					**$13,280,325**	0	$0
	F-1473 Subtotal		$5,181,621	$8,098,704					**$13,280,325**		**$0**
	F-1473 Budget	$0	$0	$0	$0	$0	$0	$0	**$0**		
	F-1473 Block	$0							**$0**		
	Funds Available	$0	($5,181,621)	($8,098,704)	$0	$0	$0	$0	**($13,280,325)**		
	F-1473 Total		**$5,181,621**	**$8,098,704**					$13,280,325		**$0**

Project: M-0154											
Status	**Project**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**Total**	**Priority Score**	**SAP 2023 Total**
Construction	**M-0154-14** Sanitary Sewer Assessment 2023	$2,756,502							**$2,756,502**	0	$2,756,502
Study	**M-0154-18A** Force Main Assessment Projects Placeholder	$50,000	$50,000	$50,000	$50,000	$50,000	$50,000		**$300,000**	0	$0
Pending	**M-0154-01** Sewer Assessment (Contingency)	$1	$1	$1	$1	$1	$1		**$6**	0	$0
	M-0154-Pending Sanitary Sewer Assessment (Budget Placeholder)		$3,239,250	$3,319,000	$3,398,750	$3,478,500	$4,000,000	$4,000,000	**$21,435,500**	0	$0
Unassigned	**M-0154-13** New Sewer Equipment 2023	$420,756							**$420,756**	0	$530,073
	M-0154-19 Sewer Micro-Metering	**Not in CIP Tracker**									$5,005
	M-0154 Subtotal	$3,227,259	$3,289,251	$3,369,001	$3,448,751	$3,528,501	$4,050,001	$4,000,000	**$24,912,764**		**$3,286,574**
	M-0154 Budget	$3,286,574	$3,239,250	$3,319,000	$3,398,750	$3,978,500	$4,000,000	$4,000,000	**$25,222,074**		
	M-0154 Block	$0							**$0**		
	Funds Available	$59,316	($50,001)	($50,001)	($50,001)	$449,999	($50,001)	$0	**$309,311**		
	M-0154 Total	**$3,227,259**	**$3,289,251**	**$3,369,001**	**$3,448,751**	**$3,528,501**	**$4,050,001**	**$4,000,000**	**$24,912,764**		**$3,286,574**

Project: M-1182											
Status	**Project**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**Total**	**Priority Score**	**SAP 2023 Total**
Design	**M-1182-02** Piedmont Bank Sewer Replacement	$103,080	$1,454,419	$400,000					**$1,957,499**	0	$213,286
	M-1182-08 King Arthur Drive Sewer Replacement		$204,000						**$204,000**	0	$0
	M-1182-09 Mitchell Road Sanitary Sewer Rehabilitation M-1182-09	$160,448							**$160,448**	0	$142,527
Construction	**M-1182-05** Sewer Rehabilitation 2023	$6,308,468							**$6,308,468**	0	$6,308,468
	M-1182-06 Warren Dr-SEWER-M1182-06	$155,088							**$155,088**	0	$135,202
Cancelled	**M-1182-07** Harbins Road Sewer Relocation M-1182-7	$9,359							**$9,359**	0	$9,359
Annual Contract/On-Call	**M-1182-Pending** Sewer Rehabilitation Contract (Budget Placeholder)		$5,500,000	$6,000,000	$6,000,000	$6,000,000	$6,000,000	$6,000,000	**$35,500,000**	0	$0
Pending	**M-1182-01** Gravity Sewer Rehab and Replac (Contingency)	$1	$1	$1	$1	$1	$1	$1	**$7**	0	$0
	M-1182-Pending Future Gravity Sewer Rehab and Replacements (Budget Placeholder)		$500,000	$500,000	$500,000	$500,000	$500,000	$500,000	**$3,000,000**	0	$0
	M-1182 Subtotal	$6,736,443	$7,658,420	$6,900,001	$6,500,001	$6,500,001	$6,500,001	$6,500,001	**$47,294,868**		**$6,808,841**
	M-1182 Budget	$6,808,841	$5,085,277	$6,572,563	$6,500,001	$6,500,001	$6,500,001	$6,500,000	**$44,466,684**		
	M-1182 Block	$0							**$0**		
	Funds Available	$72,398	($2,573,143)	($327,438)	($0)	($0)	$0	($1)	**($2,828,184)**		
	M-1182 Total	**$6,736,443**	**$7,658,420**	**$6,900,001**	**$6,500,001**	**$6,500,001**	**$6,500,001**	**$6,500,001**	**$47,294,868**		**$6,808,841**

Project: M-1183											
Status	**Project**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**Total**	**Priority Score**	**SAP 2023 Total**
On Hold	**M-1183-Pending** NCI FM Repair		$500,000						**$500,000**	0	$0
Completed	**M-1183-06** Alcovy PS Force Main ARV Replacement	$154,814							**$154,814**	0	$154,814
	M-1183-07 Hog Mountain Forcemain Repair	$634,428							**$634,428**	0	$119,040
Pending	**M-1183-01** Force Main Rehab and Replace (Contingency)	$1	$1	$1	$1	$1	$1	$1	**$7**	0	$1,193,024
	M-1183-Pending Future Force Main Rehab and Replacement Projects				$1,000,000	$1,000,000	$1,000,000		**$3,000,000**	0	$0
Design	**M-1183-02** M-1183-02 - Dual ARV Separation Phase I	$86,204	$2,010,000						**$2,096,204**	0	$103,848
	M-1183-04 M-1183-04 - Dual ARV Separation Project Phase 2	$33,823	$548,664	$1,010,000					**$1,592,487**	0	$34,677
	M-1183-08 M-1183-08 LBHC PS FM CV Installation	$39,161	$430,839						**$470,000**	3.25	$439,161
	M-1183 Subtotal	$948,430	$3,489,504	$1,010,001	$1,000,001	$1,000,001	$1,000,001	$1	**$8,447,940**		**$2,044,564**
	M-1183 Budget	$2,044,564	$1,862,201	$1,410,001	$1,000,001	$1,000,001	$1,000,001	$1,000,000	**$9,316,769**		
	M-1183 Block	$0							**$0**		
	Funds Available	$1,096,134	($1,627,303)	$400,000	$0	$0	$0	$999,999	**$868,830**		
	M-1183 Total	**$948,430**	**$3,489,504**	**$1,010,001**	**$1,000,001**	**$1,000,001**	**$1,000,001**	**$1**	**$8,447,940**		**$2,044,564**

Project: M-1237											
Status	**Project**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**Total**	**Priority Score**	**SAP 2023 Total**
Pending	**M-1237-01** Petition Sewer (Contingency)	$1	$1	$1	$1	$1	$1	$1	**$7**	0	$24,402
	M-1237-Pending Future Septic to Sewer Projects (Budget Placeholder)		$500,000	$500,000	$500,000	$500,000	$500,000	$500,000	**$3,000,000**	0	$0
Design	**M-1237-02** Berkeley Lake Low Pressure Sewer 2022	$1,043							**$1,043**	0	$6,043
	M-1237 Subtotal	$1,044	$500,001	$500,001	$500,001	$500,001	$500,001	$500,001	**$3,001,050**		**$30,445**
	M-1237 Budget	$30,445	$1,025,001	$608,434	$500,001	$500,001	$500,001	$500,000	**$3,663,883**		
	M-1237 Block	$0							**$0**		
	Funds Available	$29,401	$525,000	$108,433	$0	$0	($0)	($1)	**$662,833**		
	M-1237 Total	**$1,044**	**$500,001**	**$500,001**	**$500,001**	**$500,001**	**$500,001**	**$500,001**	**$3,001,050**		**$30,445**

PUMP STATIONS

Project: F-1383											
Status	Project	2023	2024	2025	2026	2027	2028	2029	Total	Priority Score	SAP 2023 Total
Program/Planning	**F-1383-01** Pump Station and FM Enhancement Expansion - Contingency	$1							**$1**	0	$1,006,312
	F-1383-07 Eastside Conveyance System Expansion (CTSMP 2)	$158,140	$200,000	$800,000	$2,000,000	$18,000,000	$9,000,000		**$30,158,140**	0	$246,895
Design	**F-1383-05** Suwanee Creek Diversion PS Enhancement & Expansion - Fund 504	$200,000	$1,550,000	$12,120,000	$8,030,000				**$21,900,000**	0	$0
	F-1383-09 F-1383-09 Turkey Crossing Sewer - Pump Station and Force Main	$1,197,790	$1,725,841	$1,930,877					**$4,854,508**	0	$125,273
	F-1383-11 F-1383-11 Little Suwanee Creek - Pump Station and Force Main		$9,780,991	$8,568,400					**$18,349,391**	0	$0
	F-1383-12 F1383-12 - LFP SS Connection Force Main	$361,020	$567,055	$2,581,354					**$3,509,429**	0	$256,020
	F-1383 Subtotal	$1,916,950	$13,823,888	$26,000,631	$10,030,000	$18,000,000	$9,000,000		**$78,771,469**		**$1,634,499**
	F-1383 Budget	$1,634,499	$16,182,390	$2,559,926	$8,500,000	$18,500,000	$31,800,000	$20,200,000	**$99,376,815**		
	F-1383 Block	$0							**$0**		
	Funds Available	($282,451)	$2,358,502	($23,440,705)	($1,530,000)	$500,000	$22,800,000	$20,200,000	**$20,605,346**		
	F-1383 Total	**$1,916,950**	**$13,823,888**	**$26,000,631**	**$10,030,000**	**$18,000,000**	**$9,000,000**		**$78,771,469**		**$1,634,499**

Project: F-1459											
Status	Project	2023	2024	2025	2026	2027	2028	2029	Total	Priority Score	SAP 2023 Total
Design	**F-1459**- F1459 - Ridge Road PS Decommissioning Phase II		$3,674,727	$5,082,219	$1,020,000				**$9,776,946**	0	$0
	F-1459 Subtotal		$3,674,727	$5,082,219	$1,020,000				**$9,776,946**		**$0**
	F-1459 Budget	$0	$0	$0	$0	$0	$0	$0	**$0**		
	F-1459 Block	$0							**$0**		
	Funds Available	$0	($3,674,727)	($5,082,219)	($1,020,000)	$0	$0	$0	**($9,776,946)**		
	F-1459 Total		**$3,674,727**	**$5,082,219**	**$1,020,000**				$9,776,946		**$0**

Project: M-0745, M-0746, M-0747, M-0748											
Status	**Project**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**Total**	**Priority Score**	**SAP 2023 Total**
Construction	**M-0748-30** Davis Road Pump Station	$1,081,190	$3,669,262	$324,514					**$5,074,966**	3.5	$1,071,910
	M-0747-11 Alcovy River PS Improvements	$7,752,808	$2,492,034						**$10,244,842**	4	$8,825,882
	M-0747-69 M-0747-69 Lawrenceville-Suwanee Pump Station Upgrade	$2,293,796							**$2,293,796**	0	$1,937,135
Completed	**M-0748-09** PS22-10 Suwanee Creek HVAC	$72,896							**$72,896**	0	$56,207
	M-0748-10 PS22-04 Jacks Creek Grinder Replacement	$982							**$982**	0	$982
	M-0748-11 PS22-03 Chandler Oaks FMS	$1,022,737							**$1,022,737**	0	$796,329
	M-0748-12 PS022-06 Ozora Lakes PS Rehab	$355,812							**$355,812**	0	$358,353
	M-0748-16 PS022-22 Bypass Tees Phase 3	$225,848							**$225,848**	0	$238,583
	M-0748-18 PS022-26 Abington Dr PS Driveway and Storm water Improvement	$32,783							**$32,783**	0	$32,783
	M-0748-19 PS022-18 Hickory Station PS Rehabilitation	$456,546							**$456,546**	0	$484,516
	M-0747-43 BL058-20 Beaver Ruin PS - Recondition Pumps	$66,675							**$66,675**	0	$66,676
Annual Contract/On-Call	**M-0748**- PS23-14 Rockbridge (Mountain Park) PS Rehab	$600,000							**$600,000**	0	$0
	M-0748- PS23-17 Garner Industrial PS Rehab	$600,000							**$600,000**	0	$0
	M-0748- PS23-12 Parker Woods 1 PS Rehab	$600,000							**$600,000**	0	$0
	M-0748- PS23-15 Northbrook 1 PS Rehab		$650,000						**$650,000**	0	$0
	M-0748- PS23-16 Berkeley Lake PS Rehab		$650,000						**$650,000**	0	$0
	M-0748- PS23-11 Evergreen Lakes PS Rehab		$650,000						**$650,000**	0	$0
	M-0748-03 2022 PS Equipment Replacement	$13,349							**$13,349**	0	$754,828
	M-0748-06 Replacement Pumps Procurement - Smith and Loveless Stations	$684,745							**$684,745**	0	$684,745
	M-0748-17 PS22-13 Ivy Creek Diversion Chamber Effluent Gate	$200,000	$600,000						**$800,000**	0	$37,632
	M-0748-20 PS022-01 Kennedy Farms PS Safety Improvements	$1,548,126							**$1,548,126**	0	$1,647,709
	M-0748-21 2023 PS Cat F Engineering Support – AC Jacobs	$130,996							**$130,996**	0	$130,996
	M-0748-22 2023 PS Cat F Engineering Support – FMS ESI	$800,000							**$800,000**	0	$429,000
	M-0748-24 2023 PS Equipment Replacment	$1,508,989							**$1,508,989**	0	$1,431,557
	M-0748-25 PS23-02 Brooks Rd Booster LED Uprade	$40,362							**$40,362**	0	$40,362
	M-0748-27 PS022-27 Hampton Ridge PS Facility Maintenance	$896,242							**$896,242**	0	$896,242
	M-0748-28 PS23-07 Walmart PS Rehab	$735,306							**$735,306**	0	$735,307
	M-0748-31 PS23-21 NBC PS LED Lighting	$98,993							**$98,993**	0	$98,993
	M-0748-32 PS23-20 Ivy Creek LED Lighting	$101,235							**$101,235**	0	$101,235

	M-0748-33 PS23-13 The Columns PS Rehab	$925,179							**$925,179**	0	$945,179
	M-0748-34 PS23-10 Ellington Springs PS Rehab	$992,272							**$992,272**	0	$997,272
	M-0748-35 Ross Road Fence Replacement	$33,377							**$33,377**	0	$33,097
	M-0747-51 Alcovy River Booster PS Generator Install	$140,235							**$140,235**	3	($1,805)
	M-0748- 2024 - 2029 Pump Stations - Programmatic Rehab		$8,141,825	$9,000,000	$13,000,000	$13,000,000	$13,000,000	$13,000,000	**$69,141,825**	0	$0
	M-0748- Eastgate Business Park PS Rehab				$650,000				**$650,000**	0	$0
	M-0748- Mink Livsey PS Rehab		$650,000						**$650,000**	0	$0
	M-0748- 2000 West Place PS Rehab			$650,000					**$650,000**	0	$0
	M-0748- Replacement Pumps Procurement - Smith and Loveless Stations Ph 2	$58,741	$341,259						**$400,000**	0	$0
	M-0748- Park Haven PS Rehab				$650,000				**$650,000**	0	$0
	M-0748- Village at Parkview PS Rehab		$600,000						**$600,000**	0	$0
	M-0748- Roselake PS Rehab			$650,000					**$650,000**	0	$0
	M-0748- Regency Park PS Rehab			$650,000					**$650,000**	0	$0
	M-0748- Carrington PS Rehab			$650,000					**$650,000**	0	$0
	M-0748- Southfork PS Rehab			$650,000					**$650,000**	0	$0
	M-0748- Peachtree Station PS Rehab						$650,000		**$650,000**	0	$0
	M-0748- Presidential Commons PS Rehab						$650,000		**$650,000**	0	$0
	M-0748- Northbrook 2 PS Rehab			$650,000					**$650,000**	0	$0
	M-0748- Killian Woods PS Rehab					$650,000			**$650,000**	0	$0
	M-0748- Appalachee Farms PS Rehab				$650,000				**$650,000**	0	$0
	M-0748- Country Club of Gwinnett 2 PS Rehab				$650,000				**$650,000**	0	$0
Program/Plan ning	**M-0748**- Lakeport PS Rehab					$650,000			**$650,000**	0	$0
	M-0748- Brookwood Plantation PS Rehab				$650,000				**$650,000**	0	$0
	M-0748- Chaffin Fence PS Rehab							$650,000	**$650,000**	0	$0
	M-0748- Border Street PS Rehab							$650,000	**$650,000**	0	$0
	M-0748- Sugar Hill Plantation PS Rehab							$650,000	**$650,000**	0	$0
	M-0748- Brooks Crossing PS Rehab							$650,000	**$650,000**	0	$0
	M-0748- Grayson Highway PS Rehab						$650,000		**$650,000**	0	$0
	M-0748- Collins Hill Heights PS Rehab						$650,000		**$650,000**	0	$0
	M-0748- Abington Drive PS Rehab					$650,000			**$650,000**	0	$0
	M-0748- Lee Plantation PS Rehab					$650,000			**$650,000**	0	$0
	M-0748- Millerbrook PS Rehab						$650,000		**$650,000**	0	$0
	M-0748- Old Suwanee PS Rehab							$650,000	**$650,000**	0	$0
	M-0748- Abberone PS Rehab					$650,000			**$650,000**	0	$0
	M-0748- Riverfield PS Rehab					$650,000			**$650,000**	0	$0
	M-0748- Prospect Road PS Rehab						$650,000		**$650,000**	0	$0
	M-0748-01 Pump Station Contingency M-0748	$1	$1	$1	$1	$1	$1		**$6**	0	$1,090
	M-0748-23 PS 2023 FMS Contingency	$1							**$1**	0	$0
	M-0747- 2024 - 2029 Pump Stations - Equipment Replacement and Repair		$1,200,000	$1,200,000	$1,200,000	$1,200,000	$1,200,000	$1,200,000	**$7,200,000**	0	$0
	M-0747-01 PS Rehab Contingency M-0747	$1							**$1**	0	$0

	M-0747-49 Great River PS Rehabilitation				$82,205	$400,000	$4,000,000		**$4,482,205**	0	$0
	M-0747-48 Davis Road Pump Station (fka Parker Woods 2 PS Rehab)	$12,556							**$12,556**	3.5	$12,391
Design	**M-0747-72** Patterson Pump Station Rehabilitation	$511,352	$3,246,655	$3,246,655					**$7,004,662**	2	$511,352
	M-0747-XX Killian Pond Pump Station Drainage Improvements	$70,000							**$70,000**	0	$0
	M-0745, M-0746, M-0747, M-0748 Subtotal	$24,664,133	$22,891,036	$17,671,170	$17,532,206	$18,500,001	$22,100,001	$17,450,000	**$140,808,547**		**$23,356,53**
	M-0745, M-0746, M-0747, M-0748 Budget	$23,356,536	$8,579,620	$18,341,824	$18,200,000	$18,200,000	$18,200,000	$18,200,000	**$123,077,980**		
	M-0745, M-0746, M-0747, M-0748 Block	$0							**$0**		
	Funds Available	($1,307,597)	($14,311,416)	$670,654	$667,794	($300,001)	($3,900,001)	$750,000	**($17,730,567)**		
	M-0745, M-0746, M-0747, M-0748 Total	**$24,664,133**	**$22,891,036**	**$17,671,170**	**$17,532,206**	**$18,500,001**	**$22,100,001**	**$17,450,000**	**$140,808,547**		**$23,356,53**

Project: M-0777

Status	Project	2023	2024	2025	2026	2027	2028	2029	Total	Priority Score	SAP 2023 Total
On Hold	**M-0777-21** Old Athens Pump Station Phase Out			$600,000					**$600,000**	0	$0
	M-0777-01 PS Decommissioning (Contingency)	$1	$1	$1	$1	$1	$1	$1	**$7**	0	$981
Pending	**M-0777-Pending** The Oaks PS Decommissioning	$100,000	$250,000	$250,000	$1,650,000	$1,650,000			**$3,900,000**	0	$0
	M-0777-Pending Future PS Decommissioning (placeholder)					$500,000	$500,000	$500,000	**$1,500,000**	0	$0
Design	**M-0777-19** M-0777-19 North Avenue No1 PS Decommissioning	$448,940	$1,216,273						**$1,665,213**	0	$457,155
	M-0777-20 Fountain Glen Pump Station Decommissioning M-0777-20	$350,639	$684,443						**$1,035,081**	0	$349,712
	M-0777 Subtotal	$899,580	$2,150,717	$850,001	$1,650,001	$2,150,001	$500,001	$500,001	**$8,700,301**		**$807,847**
	M-0777 Budget	$807,847	$1,997,052	$500,001	$500,001	$500,001	$500,000	$500,000	**$5,304,902**		
	M-0777 Block	$0							**$0**		
	Funds Available	($91,732)	($153,665)	($350,000)	($1,150,000)	($1,650,000)	($1)	($1)	**($3,395,399)**		
	M-0777 Total	**$899,580**	**$2,150,717**	**$850,001**	**$1,650,001**	**$2,150,001**	**$500,001**	**$500,001**	$8,700,301		**$807,847**