



REQUEST FOR BIDS - BID (No. 007-19)

SOLID WASTE ENVIRONMENTAL MONITORING SERVICES

February 15, 2019

The City of Rome, Georgia is seeking to retain solid waste environmental monitoring services from qualified professionals for the sampling and analysis of leachate, groundwater, surface water and monitoring of methane and oxygen gases in perimeter monitoring wells and on-site structures at Walker Mountain Sanitary Landfill (Phase 1-3 closed) Permit No. 057-013D (SL), Walker Mountain Sanitary Landfill (Phase 4-9) Permit No. 057-020D (MSWL), Walker Mountain C&D Facility Permit No. 057-021D (C&D), Berry Hill Road Sanitary Landfill Permit No. 057-009D (SL). The Walker Mountain Landfill is located approximately 3.5 miles southwest of Rome at 433 Walker Mountain Road, S.W., Rome, GA 30161. The Berry Hill Landfill is located approximately 3.5 northwest of Rome at 434, Berry Hill Road, N.W., Rome, GA 30165. The Contract Term shall be one (1) year and if pricing and services are agreeable to both parties this contract can be extended annually up to three (3) years. The first Semi-Annual Groundwater and Surface Water Monitoring Report and Leachate Sample Results shall be for the Spring 2019 reporting period.

Bid packages shall be delivered to City of Rome, Attn: Johnna M. Allen, 601 Broad Street, P.O. Box 1433, Rome, Georgia, 30162 until 10:00 a.m. on Thursday, February 28, 2019 at which time and place all Bids will be publicly opened and acknowledged.

Information related to this Bid can be obtained on the City of Rome website at <http://www.romefloyd.com/rfps> or contacting the City of Rome Purchasing Department at 706-236-4410, Ms. Johnna Allen, (jallen@rome.ga.us). The City of Rome reserves the right to accept, reject, waive technicalities, and/or negotiate any of all proposals as determined by them to be in the City's best interest.

CITY OF ROME, GEORGIA

By: Ms. Johnna Allen
Purchasing Director

601 Broad Street • PO Box 1433 • Rome, Georgia 30162-1433
phone: 706/236-4410 • fax: 706/236-4549



SOLID WASTE ENVIRONMENTAL MONITORING SERVICES – BID No. 007-19

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INSTRUCTIONS TO BIDDERS

1. Intent: It is intended that the Instructions to Bidders shall define and describe the complete work to be completed.

2. Definitions: Where the following words or the pronouns used in their stead occur herein, they shall have the following meaning:

"Owner" shall mean the City of Rome, Georgia, or its authorized and legal representative.

"Director" shall mean the Public Works Director of Rome, Georgia, or his authorized and legal representatives.

"Engineer" shall mean the Director of Engineering Services Department of Rome, Georgia, or his authorized and legal representative.

"Contractor" shall mean the party of the second part to the Contract Agreement or the authorized and legal representative of such party.

"Products" shall mean materials or equipment permanently incorporated into the work.

"Provide" shall mean to furnish and install.

3. Work to Be Done: The work to be done consists of furnishing all products and performing all analysis and labor necessary to complete **"SOLID WASTE ENVIRONMENTAL MONITORING SERVICES, Bid No. 007-19"**.

4. Addenda and Interpretations: No interpretation of the meaning of the bid documents will be made to any bidder orally. All questions should be submitted simultaneously via e-mail to JAllen@rome.ga.us and ACarroll@rome.ga.us. All questions and answers will be posted with other bid documents on the City of Rome website at www.RomeFloyd.com. In order for a request for an interpretation to be given consideration, it must be received at least five days prior to the date fixed for the opening of bids.

Any and all such interpretations and any supplemental instructions will be in the form of written Addenda which, if issued, will be posted on the City of Rome website at <http://www.romefloyd.com/rfps>. Addenda shall be posted not later than three days prior to the date affixed for the opening of the bids. Failure of a bidder to receive any Addendum shall not relieve him of any obligation under his bid. It shall be the full and complete responsibility of the bidder to visit said site on a frequent basis to obtain any Addenda that

may be issued. Any Bid received that does not acknowledge all Addenda issued shall be considered incomplete and may be rejected.

5. Site Examination: The Bidder is highly advised to examine the locations of the work and to inform himself fully as to its conditions; hours of operation; the conformation of the ground; the character, quality, the prosecution of the work; the general and local conditions and all other matters which can in any way affect the work to be done under the Contract. Failure to examine the sites will not relieve the successful bidder of his obligation to furnish all products and labor necessary to carry out the provisions of his contract. To schedule site visits, the Bidder shall contact Mr. Lee Stone, Landfill Director at 706-291-4512.

6. Bids: All Bids must be made on the Bid form contained herein. The Bid form and submittal information shall be enclosed in a sealed envelope, addressed to Ms. Johnna Allen, Purchasing Director, City of Rome, P.O. Box 1433, Rome, Georgia, 30162-1433, and labeled "**SOLID WASTE ENVIRONMENTAL MONITORING SERVICES, Bid No. 007-19**". Any bid package received not bearing this information may be considered incomplete and may not be opened.

7. Right to Reject Bids: The Owner reserves the right to reject any or all bids and to waive informalities. No bids will be received after the time set for opening Bids. Any unauthorized conditions, limitations or provisions attached to the Bid, except as provided herein, will render it informal and may cause its rejection. Unbalanced bids will be subject to rejection. Any bidder may withdraw his bid, either personally, by facsimile, or written request, at any time prior to the scheduled closing time for receipt of bids. Facsimile or written request for withdrawal must be in the possession of the Owner prior to the closing time for receipt of bids.

8. Bid Opening: Bids will be opened in public and read aloud. All bidders are welcome to be present at the opening.

9. Determination of Successful Bidder: The Contract will be awarded to the overall best responsive, responsible bidder, if awarded.

(a) Responsibility: The determination of the Bidder's responsibility will be made by the Owner based on the following criteria:

- (1) Professional qualifications, solid waste consulting experience and technical competence of the firm and its subcontractors necessary for satisfactory performance of the required services.
- (2) Past performance on solid waste consulting contracts with governmental agencies, private agencies and private industry in terms of cost control,

quality work, and compliance with performance schedules. These shall be documented by references and other means.

(3) Fee proposal (using the attached bid form).

The Bidder shall furnish to the Owner four (4) hard copies and one storage drive with a single PDF file of the required submittal in a sealed package labeled "**SOLID WASTE ENVIRONMENTAL MONITORING SERVICES, Bid No. 007-19**" addressed to Ms. Johnna Allen, Purchasing Director, City of Rome, 601 Broad Street, Rome, GA 30161 by the date and time first listed in this Request for Bids. The firms responding to this Request for Bid must have documentable solid waste consulting experience and are required to prepare a proposal package containing the information below as a minimum in accordance with the following outline:

- Cover letter – On company letterhead, state your firm’s interest in the project with a brief statement about why your firm is uniquely qualified for this service. Provide the company’s legal name, address, name of primary contact person with contact information, and website. Provide information about your firms history, state of incorporation, number of years in business, number of employees, form of ownership (i.e. sole proprietorship, partnership, corporation, LLC, etc.). If you firm has multiple offices, define the primary office that will perform services for his project and the number of persons staffing that office;
- Project Understanding – Provide scope of work and project approach. Describe in detail the firm’s approach to providing groundwater and surface water monitoring services;
- Prime Consultant and Subcontractors (if any);
 - Names, titles, work addresses and telephone numbers of corporate officers in office location responsible for project if firm has multiple offices;
 - Description of overall related solid waste experience of office that will accomplish the day-to-day work;
 - Five detailed examples of smiliar solid waste environmental monitoring projects within the past three years for the firm or principals of the firm, the project manager for each project, the location, and name and current telephone number of a client contact shall be included for each project listed.
 - Responsibilities & Resumes of the Prime Contractor and Subcontractors (including NELAP Certification for Laboratory);
 - Related experience and expertise of the subcontractor(s). Highlight specialized expertise and resources with concise explanations of their value and relevance to the Scope of Services.

The Owner reserves the right to reject any bid if the evidence submitted by, or investigation of, the Bidder fails to satisfy the Owner that he is properly qualified to carry out the obligations of the Contract.

(b) Responsiveness: The determination of responsiveness will be made by the Owner based on a consideration of whether the Bidder has provided a complete submittal package along with a complete Bid form without irregularities, excisions, special conditions, or alternative bids for any item unless specifically requested in the Bid form.

BID FORM

TO THE CITY OF ROME, GEORGIA

Submitted: _____, 2019

The undersigned, as Bidder, hereby declares that the only person or persons interested in the BID as principal or principals is or are named herein and that no other person than herein mentioned has any interest in this BID or in the Contract to be entered into; that this Bid is made without connection with any other person, company or parties making BID; and that it is in all respects fair and in good faith without collusion or fraud.

The Bidder further declares that he has examined the site of the work and informed himself fully in regard to all conditions pertaining to the place where the work is to be done; that he has read all Instructions to Bidders furnished prior to the opening of bids; that he has satisfied himself relative to the work to be performed.

The Bidder proposes and agrees, if this BID is accepted, to contract with the City of Rome, Georgia, in the form of contract specified, to furnish all necessary products, machinery, tools, apparatus, means of transportation and labor necessary to complete **SOLID WASTE ENVIRONMENTAL MONITORING SERVICES, Bid No. 007-19**, in full and complete accordance with the Contract Documents to the full and entire satisfaction of the City with a definite understanding that no money will be allowed for unscheduled consulting services unless prior approval is provided in writing by the City of Rome:

For furnishing all materials and performing all labor necessary to complete **SOLID WASTE ENVIRONMENTAL MONITORING SERVICES – Bid No. 007-19.**

ITEM 1 - Berryhill Landfill, Semi-Annual Events 2019 - 2020

- a. Spring Detection & Assessment (April 2019) L.S. \$ _____
- b. Fall Detection & Assessment (October 2019) L.S. \$ _____

ITEM 2 - Walker Mountain Phases 1-3, Semi-Annual Events 2019 - 2020

- a. Spring Detection & Assessment (April 2019) L.S. \$ _____
- b. Fall Detection & Assessment (October 2019) L.S. \$ _____

ITEM 3 - Walker Mountain Phases 4-9, Semi-Annual Events 2019 - 2020

- a. Spring Detection & Assessment (April 2019) L.S. \$ _____
- b. Fall Detection & Assessment (October 2019) L.S. \$ _____
- c. Leachate L.S. \$ _____

ITEM 4 - Walker Mountain C & D, Semi-Annual Events 2019 - 2020

- a. Spring Detection & Assessment (April 2019) L.S. \$ _____
- b. Fall Detection & Assessment (October 2019) L.S. \$ _____

TOTAL ITEMS 1 THROUGH 4, INCLUSIVE IN THE AMOUNT OF _____
_____ DOLLARS (\$ _____).

The Bidder agrees hereby to commence work under this Contract, with adequate personnel and equipment, on a date to be specified in a written order of the Owner, and

to fully complete all work under this Contract as required by applicable local, state and federal requirements.

Bidder acknowledges receipt of Addenda _____ .

Bidder: _____

By: _____

Title: _____

Address:

Phone:

LIST OF LOCAL CONTRACTORS/ LOCAL MATERIALS SUPPLIERS

The following is the list of Local Contractors/Local Suppliers referenced in the Bid Form submitted by:

(Bidder).....

Dated.....and which is an integral part of the Bid Form.

The following work will be performed (or provided) by Contractors/Suppliers and coordinated by us:

WORK SUBJECT

NAME

Sampling Contractor.....

Lab Contractor.....

LIST OF DBE SUB CONTRACTORS/ DBE MATERIALS SUPPLIERS

The following is the list of DBE Contractors/DBE Suppliers referenced in the Bid Form submitted by:

(Bidder).....

Dated.....and which is an integral part of the Bid Form.

The following work will be performed (or provided) by Contractors/Suppliers and coordinated by us:

WORK SUBJECT

NAME

Sampling Contractor.....

Lab Contractor.....

BIDDERS DECLARATION

The bidder understands, agrees and warrants:

That the bidder has carefully read and fully understands the full scope of the specifications:

That the bidder has the capability to successfully undertake and complete the responsibilities and obligations in said specifications.

That the bidder has liability insurance and a declaration of insurance form is included in the bid package.

That this bid may be withdrawn by requesting such withdrawal in writing at any time prior to 10: a.m., February 28, 2019, but may not be withdrawn after such date and time.

That the City of Rome reserves the right to reject any or all bids and to accept that bid which will, in its opinion, best serve the public interest. The City of Rome reserves the right to waive any technicalities and formalities in the bidding.

That by submission of this bid the bidder acknowledges that the City of Rome has the right to make any inquiry or investigation it deems appropriate to substantiate or supplement information supplied by the bidder.

If a partnership, a general partner must sign.

If a corporation, the authorized corporate officer(s) must sign and the corporate seal must be affixed to this bid.

BIDDER:

Name Title

Name Title

AFFIX CORPORATE SEAL (If Applicable)

NON-COLLUSION AFFIDAVIT

The following affidavit is to accompany the bid:

STATE OF

COUNTY OF

Owner, Partner or Officer of Firm

Company Name, Address, City and State

Being of lawful age, being first duly sworn, on oath says that he/she is the agent authorized by the bidder to submit the attached bid. Affidavit further states as bidder, that they have not been a party to any collusion among bidders in restraint of competition by agreement to bid at a fixed price or to refrain from bidding; or with any office of the City of Rome or any of their employees as to quantity, quality or price in the prospective contract; or any discussion between bidders and any official of the City of Rome or any of their employees concerning exchange of money or other things of value for special consideration in submitting a sealed bid for:

FIRM NAME _____

SIGNATURE _____

TITLE _____

Subscribed and sworn to before me this _____ day of _____ 20_____

NOTARY PUBLIC

NCA-1

CERTIFICATE OF NON-DISCRIMINATION

In connection with the performance of work under this contract, the Bidder agrees as follows:

The Bidder agrees not to discriminate against any employee or applicant for employment because of race, creed, color, sex, national origin or ancestry. The Bidder shall take affirmative action to insure that employees are treated without regard to their race, creed, color, sex, national origin or ancestry. Such action shall include, but not be limited to the following: employment, upgrading, demotion, transfer, recruiting or recruitment, advertising, lay-off or termination, rates of pay or other compensation and selection for training, including apprenticeship.

In the event of the Bidder's non-compliance with this non-discrimination clause, the contract may be canceled or terminated by the City of Rome. The Bidder may be declared, by the City of Rome, ineligible for further contracts with the City of Rome until satisfactory proof of intent to comply shall be made by the Bidder.

The Bidder agrees to include this non-discrimination clause in any sub-contracts connected with the performance of this agreement.

Bidder

Signature

Title

CITY OF ROME

DRUG-FREE WORKPLACE CERTIFICATE

By signature on this certificate, the Bidder certifies that the provisions of O.C.G.A. Section 50-24-1 through 50-24-6 related to the “Drug-Free Workplace Act” will be complied with in full. The Bidder further certifies that:

- 1. A drug-free workplace will be provided for the Bidder’s employees during the performance of the contract; and

- 2. Each contractor who hires a subcontractor to work in a drug-free workplace shall secure from that subcontractor the following written certification: “As part of the subcontracting agreement with (contractor’s name), (subcontractor’s name) certifies to the contractor that a drug-free workplace will be provided for the subcontractor’s employees during the performance of this contract pursuant to O.C.G.A. Section 50-24-3(b)(7).”

By signature on this certificate, the Bidder further certifies that it will not engage in the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana during the performance of the contract.

Bidder: _____

By: _____

Name Printed: _____

Title: _____

Date: _____

STATE OF GEORGIA PROMPT PAY ACT AFFIDAVIT

THIS AFFIDAVIT IS TO ACCOMPANY THE BID

GEORGIA PROMPT PAY ACT: The Georgia Prompt Pay Act was enacted by the General Assembly in 1994 and took effect January 1, 1995. This act requires owners to pay contractors within 15 days of receipt of a pay request by the owner or the owner's representative. If payment is not made the owner shall pay the contractor 1% per month interest on the delayed payment. Additionally, the contractor must pay subcontractors within 15 days of receipt of payment from the owner.

This Act is Code Section 13-11-1 (Georgia Laws of 1994, p. 1398 par. 4)

Firm Name: _____

Signature: _____

Title: _____

Subscribed and Sworn to before me this _____ day of _____, 20_____

Notary Public

SGPPAA-1

CITY OF ROME, GEORGIA
E-VERIFY COMPLIANCE AFFIDAVIT

By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services on behalf of the City of Rome, Georgia has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned contractor will continue to use the federal work authorization program throughout the contract period and the undersigned contractor will contract for the physical performance of services in satisfaction of such contract only with subcontractors who present an affidavit to the contractor with the information required by O.C.G.A. § 13-10-91 (b). Contractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

Federal Work Authorization User Identification number
(Not Required if Less than 10 Employees)

Signature (if less than 10 employees)

Date of Authorization

Name of Contractor

Name of Project

Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____, _____, 2019 in _____(city) _____ (state).

Signature of Authorized Officer or Agent

Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME
ON THIS THE _____ DAY OF _____, 2019

NOTARY PUBLIC
My Commission Expires:

EVER-1

CITY OF ROME, GEORGIA

SAVE COMPLIANCE AFFIDAVIT

O.C.G.A § 50-36-1(e) (2) Affidavit

By executing this affidavit under oath, as an applicant for a (n) Contract or Services, as referenced O.C.G.A. C. § 50-36-1, from the City of Rome, Georgia, the undersigned applicant verifies one of the following with respect to my application for a public benefit:

- 1) _____ I am a United State citizen.
- 2) _____ I am a legal permanent resident of the United States
- 3) _____ I am a qualified alien or non-immigrant under the Federal Immigration and Nationality Act with an alien number issued by the Department of Homeland Security or other federal immigration agency.
My alien number issued by the Department of Homeland Security or other federal immigration agency is: _____.

The undersigned applicant also hereby verifies that he or she is 18 years of age or older and has provided at least one secure and verifiable document, as required by O.C.G.A. § 50-36-1(e) (1), with this affidavit. The secure and verifiable document provided with this affidavit can best be classified as:

_____.

In making the above representation under oath, I understand that any person who knowingly and willfully makes a false, fictitious, or fraudulent statement or representation in an affidavit shall be guilty of a violation of O.C.G.A. § 16-10-20, and face criminal penalties as allowed by such criminal statute.

Executed in _____ (city), _____ (state).

Signature of Applicant

Name of Applicant Printed

SUBSCRIBED AND SWORN

BEFORE ME ON THIS THE

_____ DAY OF _____, 20_____

NOTARY PUBLIC
My Commission Expires:

STATE OF GEORGIA,
COUNTY OF _____:

NOTICE OF COMMENCEMENT

TO: CLERK OF SUPERIOR COURT OF _____ COUNTY, GEORGIA

Pursuant to O.C.G.A. § 13-10-62(a), not later than fifteen (15) days after physically commencing work on the property, the undersigned gives Notice of Commencement of improvements to property including the following information:

1. The name, address and telephone number of the contractor;

2. The name and location of the public work being constructed or a general description of the improvement;

3. The name and address of the state or the agency or the authority of the state that is contracting for the public works construction;

4. The name and address of the surety for the performance and payment bonds, if any; and

5. The name and address of the holder of the security deposit provided, if any.

Contractor: _____
By: _____
Name: _____
Title: _____

THIS DOCUMENT MUST BE FILED WITH THE CLERK OF THE SUPERIOR COURT FOR THE COUNTY IN WHICH THE PROJECT IS LOCATED AND A COPY OF THIS DOCUMENT MUST BE POSTED AT THE PROJECT SITE NOT LATER THAN FIFTEEN (15) DAYS AFTER THE CONTRACTOR PHYSICALLY COMMENCES WORK ON THE PROPERTY.

WITHIN TEN (10) CALENDAR DAYS OF THE RECEIPT OF A WRITTEN REQUEST, GIVE A COPY OF THIS NOTICE OF COMMENCEMENT TO ANY SUBCONTRACTOR, MATERIALMAN OR PERSON MAKING THE REQUEST.

NOC-1

CONTRACT AGREEMENT

This agreement made and entered into on the _____ day of _____, 2019, by and between the City of Rome, Georgia, and Floyd County, Georgia, party of the first part (hereinafter called the "Owner"), and _____ party of the second part, (hereinafter called the "Contractor").

WITNESSETH:

That the Contractor, for the consideration hereinafter full set out hereby agrees with the Owner as follows:

1. That the Contractor will furnish all products, tools, construction equipment, skill, and labor of every description necessary to carry out and to complete in a good, firm, substantial and workmanlike manner construction of **“SOLID WASTE ENVIRONMENTAL MONITORING, Bid No. 007-19”** and will complete work in strict conformity with the foregoing Bid made by the Contractor, Instructions to Bidders, Scope of Services and all Addenda hereto annexed which form essential parts of this Agreement, as if fully contained herein. The work covered by this Agreement includes all work as required by the Scope of Services, and listed in the attached Bid.
2. That the Contractor shall commence the work to be performed under this Agreement and shall fully complete all work hereunder as required by local, state and federal requirements.
3. The Owner hereby agrees to pay to the Contractor for the faithful performance of this Agreement, in lawful money of the United States the sum of _____ and _____/100 Dollars (\$_____).
4. The Owner shall make payments to the Contractor in accordance with the provisions of the Contract Documents.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement under their respective seals on the day and date first above written in four (4) counterparts, each of which shall without proof or accounting for the other counterparts, be deemed an original contract.

CITY OF ROME, GEORGIA:

Signed and sealed in the presence of:

1. _____

2. _____

By: _____

Title: _____

(SEAL)

Attest: _____

Title: _____

FLOYD COUNTY, GEORGIA:

Signed and sealed in the presence of:

1. _____

2. _____

By: _____

Title: _____

(SEAL)

Attest: _____

Title: _____

CONTRACTOR'S NAME:

Signed and sealed in the
presence of:

By: _____

Title: _____

1. _____

(SEAL)

2. _____

Attest: _____

Title: _____

NOTE: If the Contractor is a corporation, the Agreement shall be signed by the President or Vice President, attested by the Secretary and the Corporate seal affixed. If the Contractor is a partnership, the Agreement shall be signed in the partnership name by one of the partners, with indication that he is a general partner.

BACKGROUND

Walker Mountain Sanitary Landfill (Phase 1–3 closed) Permit No. 057-013D (SL)

The Walker Mountain Landfill (phase 1-3) existing groundwater monitoring system consists of twenty (20) monitoring well locations including seventeen (17) shallow groundwater quality monitoring wells (GWA-1B, GWB-2 and GWC-1 through GWC-15) and three (3) deep groundwater monitoring wells (GWC-4D, GWC-9D, and GWC-12D). Wells currently monitored in accordance with the EPD approved Groundwater Monitoring Plan are listed in Table 1. Total depth of these wells ranges from approximately 15 to 140 feet below ground surface. There are nine (9) on-site surface water monitoring points, two (2) upgradient stations (SWA-1 and SWA-2), and seven (7) downgradient stations (SWC-1 through SWC-6, and SWC-15).

Maps from the most recent Semi-Annual Groundwater and Surface Water Monitoring Report are included to provide a general location of the monitoring locations for the site.

Walker Mountain Sanitary Landfill (Phase 4-9) Permit No. 057-020D (MSWL)

The Walker Mountain Landfill (phase 4-9) existing groundwater monitoring system consists of nineteen (19) network monitoring well locations: GWA-101R, GWA-102, GWB-101 through GWB-104, GWC-101 through GWC-111, GWC-102D, and GWC-105A. Wells currently monitored in accordance with the EPD approved Groundwater Monitoring Plan are listed in Table 1. Total depth of these wells ranges from approximately 35.4 to 291.5 feet below ground surface. There are five (5) surface water monitoring points: SWC-101 through SWC-105.

Leachate samples are collected and analyzed semi-annually in accordance with the Industrial Wastewater Discharge Permit 20-12 which is attached hereto. Reports are provided to Ms. Jacquelyn Turpin, Lab Supervisor at the City of Rome WPCP located at 212 Blacks Bluff Road, Rome Georgia, 30161-4610 to insure compliance with said permit.

Maps from the most recent Semi-Annual Groundwater and Surface Water Monitoring Report are included to provide a general location of the monitoring locations for the site.

Walker Mountain C&D Landfill Permit No. 057-021D (C&D)

The Walker Mountain C&D Landfill existing groundwater monitoring system consists of three (3) shallow wells specific to the C&D landfill: GWC-1-CD, GWC-2-CD, and GWC-3CD. Total depth of these wells ranges from approximately 43.1 to 62.1 feet below ground surface. Additional wells from Walker Mountain Phase 1-3 (GWA-1, GWB-2, and GWC-1) and Phase 4-9 (GWC-107 through GWC-111) are used to monitor the perimeter of the C&D landfill. Wells currently monitored in accordance with the EPD approved Groundwater Monitoring Plan are listed in Table 1. The surface water monitoring system at the C&D landfill consists of four (4) locations: (SWC-1-CD through SWC-4-CD).

Maps from the most recent Semi-Annual Groundwater and Surface Water Monitoring Report are included to provide a general location of the monitoring locations for the site.

Berry Hill Road Sanitary Landfill Permit No. 057-009D (SL)

The Berry Hill Landfill existing groundwater monitoring system consists of twenty-one (21) network monitoring well locations including three (3) upgradient wells (GWA-1, GWA-2 and GWA-3) and eighteen (18) downgradient wells (GWC-1 through GWC-18). Total depth of these wells ranges from approximately 19.0 to 56.8 feet below ground surface. There are six (6) on-site surface water monitoring points, two (2) upgradient stations (SWA-1 and SWA-2), and four (4) downgradient stations (SWC-1 through SWC-4).

Monitoring wells GWA-1, GWC-4, GWC-6, and GWC-10 are included in the assessment monitoring program and scheduled for full Appendix II sampling on an annual basis during the fall event, as approved by Georgia EPD in May 2009. The remaining seventeen (17) wells are a part of the detection monitoring program. Wells currently monitored in accordance with the EPD approved Groundwater Monitoring Plan are listed in Table 3.

Maps from the most recent Semi-Annual Groundwater and Surface Water Monitoring Report are included to provide a general location of the monitoring locations for the site.

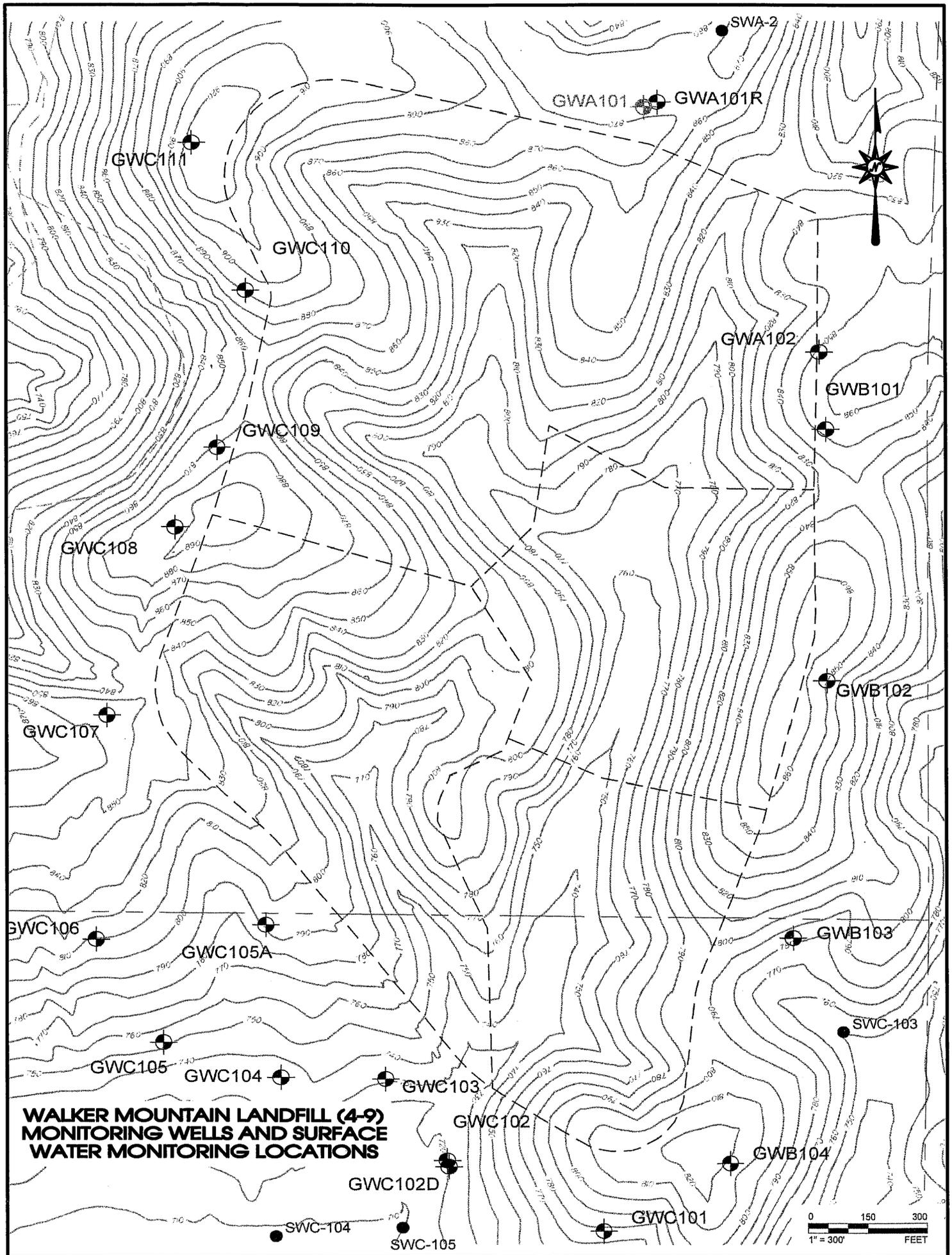
Pertinent environmental monitoring documents (Groundwater Monitoring Plan, Methane Monitoring Plan, previous Monitoring Reports, etc.) for all sites are available for review at the following locations:

City of Rome Public Works Division
200 Vaughn Road
Rome, GA 30161
(by appointment only during normal
Business hours)
706-236-4466

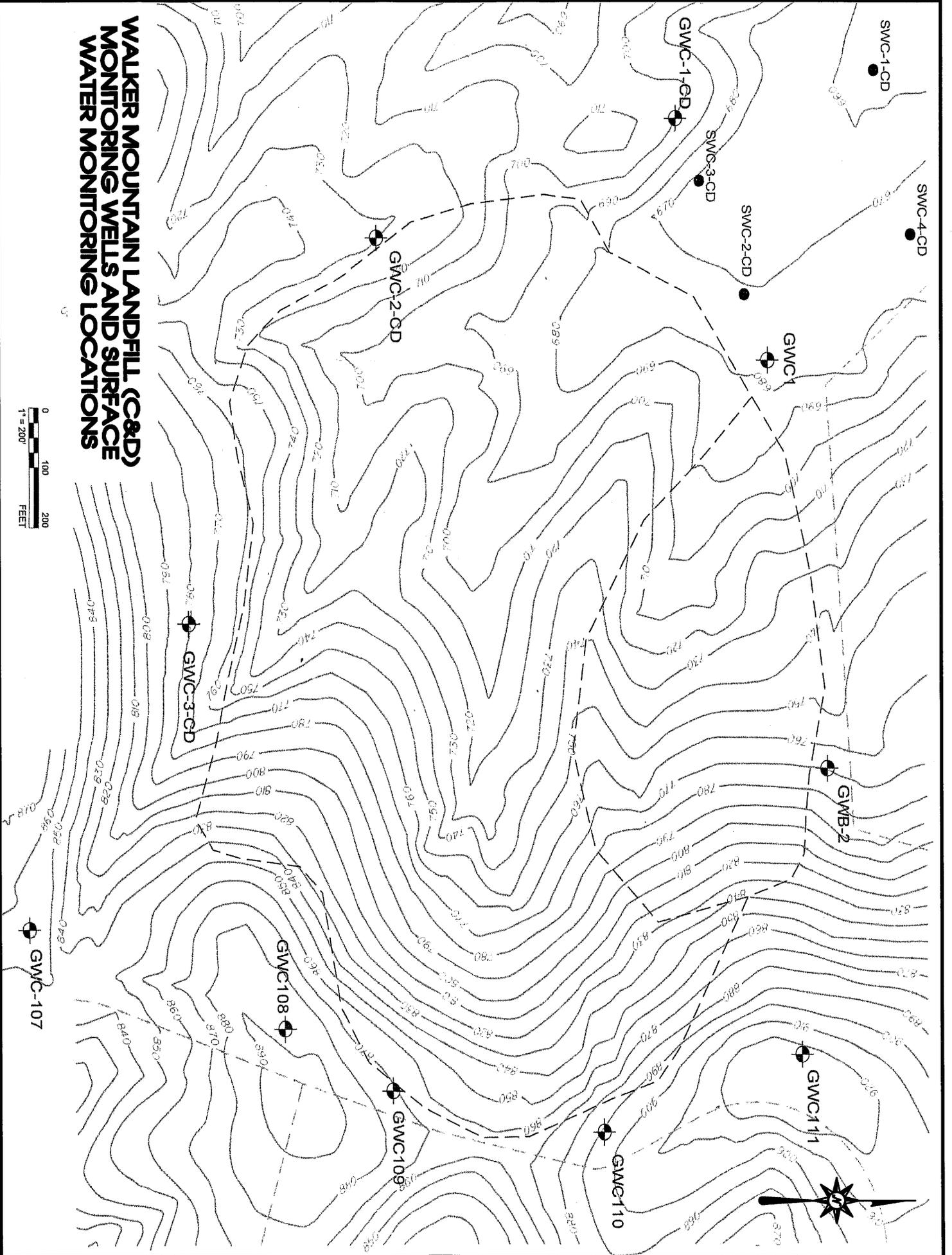
Georgia Environmental Protection Division
4244 International Parkway, Suite 104
Atlanta, GA 30354
404-362-2696

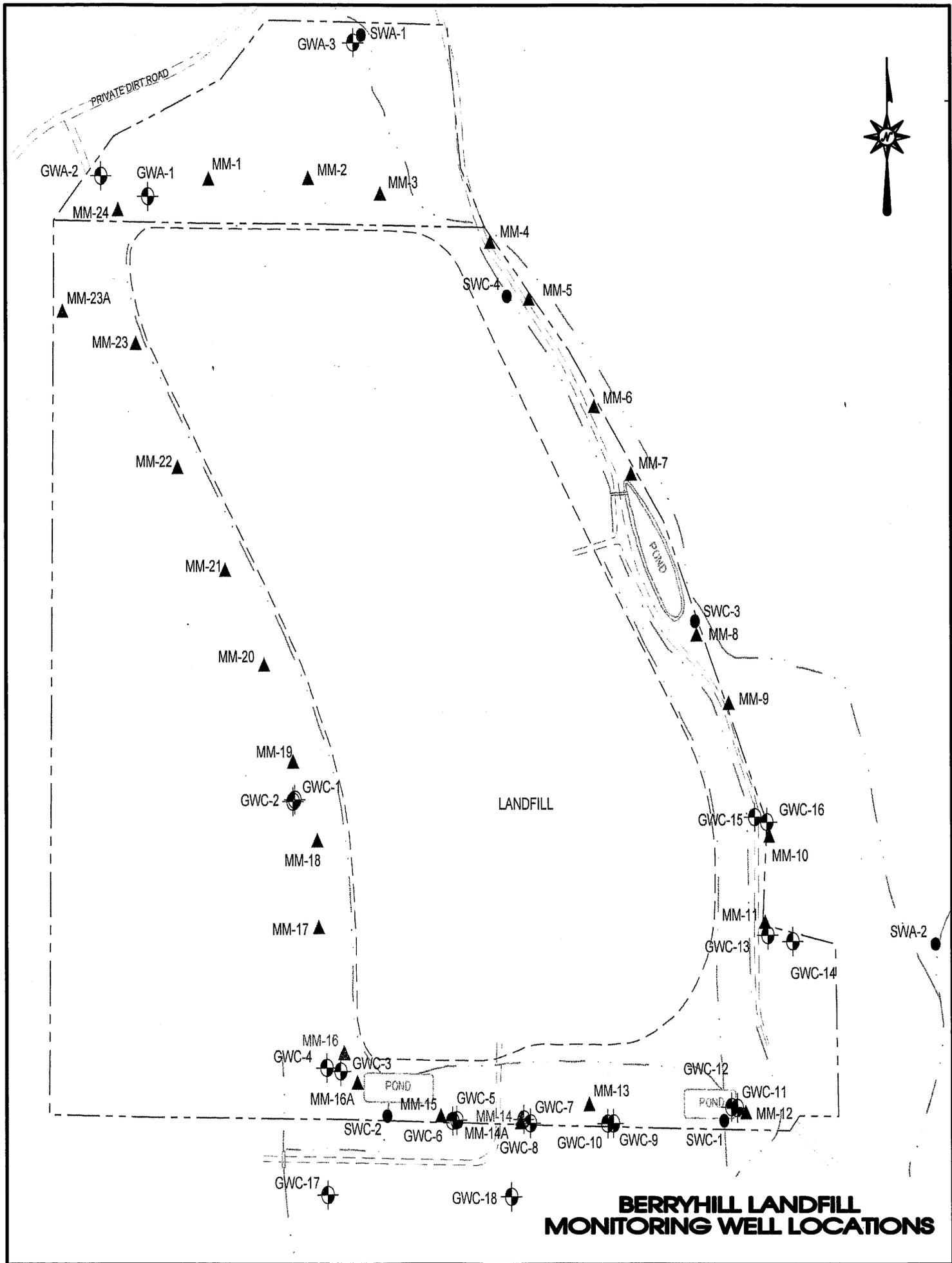
All monitoring and reporting activities are to be completed in accordance with applicable site, local, state, and federal requirements, plans, and guidance documents.

FIGURES



**WALKER MOUNTAIN LANDFILL (C&D)
MONITORING WELLS AND SURFACE
WATER MONITORING LOCATIONS**





**BERRYHILL LANDFILL
MONITORING WELL LOCATIONS**

TABLES

Table 1
Summary of Groundwater Monitoring Plan
Walker Mountain Landfill - Permit Nos. 057-013D(SL), 057-020D(MSWL), 057-021D(C&D)

Groundwater Monitoring Well	Spring Semi-Annual Event	Fall Semi-Annual Event²	Depth (Feet bgs)
Walker Mountain Landfill Phase 1 - 3 Closed Permit Number 057-013D (SL)			
GWA-1B	Appendix I	Appendix I	30.00
GWB-2	Appendix I	Appendix I	33.50
GWC-1	Appendix I	Appendix I	30.00
GWC-2	Appendix I	Appendix I	33.50
GWC-3	Appendix I	Appendix I	25.00
GWC-4	Appendix I	Appendix I	18.00
GWC-4D	Water Level Only	Water Level Only	-
GWC-5	Appendix I	Appendix I	25.00
GWC-6	Appendix I	Appendix I	25.00
GWC-7	Appendix I	Appendix I	25.00
GWC-8	Appendix I	Appendix I	15.00
GWC-9	Appendix I	Appendix I	27.50
GWC-9D	Water Level Only	Water Level Only	-
GWC-10	Appendix I	Appendix I	20.27
GWC-11	Appendix I	Appendix I	23.34
GWC-12	Water Level Only	Water Level Only	-
GWC-12D ¹	Appendix I	Appendix I	52.65
GWC-13	Appendix I	Appendix I	20.00
GWC-14	Appendix I	Appendix I	27.00
GWC-15	Appendix I	Appendix I	140.00
Walker Mountain Landfill Phase 4 - 9 Permit Number 057-020D (MSWL)			
GWA-101R	Appendix I	Appendix I	170.10
GWA-102	Appendix I	Appendix I	149.33
GWB-101	Appendix I	Appendix I	146.47
GWB-102	Appendix I	Appendix I	131.17
GWB-103	Appendix I	Appendix I	44.40
GWB-104	Appendix I	Appendix I	145.73
GWC-101	Appendix I	Appendix I	44.59
GWC-102	Appendix I	Appendix I	35.41
GWC-102D	Appendix I	Appendix I	47.70
GWC-103	Appendix I	Appendix I	46.68
GWC-104	Appendix I	Appendix I	44.59
GWC-105	Appendix I	Appendix I	43.70
GWC-105A	Appendix I	Appendix I	100.00
GWC-106	Appendix I	Appendix I	36.40
GWC-107	Appendix I	Appendix I	179.20
GWC-108	Appendix I	Appendix I	188.00
GWC-109	Appendix I	Appendix I	105.50
GWC-110	Appendix I	Appendix I	85.00
GWC-111	Appendix I	Appendix I	291.50
Walker Mountain C&D Facility Permit Number 057-021D (C&D)			
GWC-1-CD	Appendix I	Appendix I	62.11
GWC-2-CD	Appendix I	Appendix I	48.30
GWC-3-CD	Appendix I	Appendix I	43.12

Notes:

1. Due to mislabeled well ID at the landfill, GWC-12D was historically sampled for GWC-12. To maintain consistency with previous events and to allow for statistical analyses, GWC-12D will continue to be sampled instead of GWC-12.
2. A geochemical evaluation is performed on wells with inorganic parameter statistically significant increases during the preceding spring event; parameters include alkalinity, chloride, sulfate, calcium, magnesium, potassium, and sodium.
3. Appendix I refers to Appendix I volatile organic compounds and metals as referenced in 40 CFR Part 258, Subpart E.
4. bgs - below ground surface.
5. Sample preservation, handling, and analysis will meet the specifications described by "Test Methods for Evaluating Solid Waste Physical/Chemical Methods, third edition" (EPA Publication Number SW-846, 1986, as revised December, 1987) or an equivalent substitute as approved by the administrative authority.

Table 2
Summary of Groundwater Monitoring Plan
Berry Hill Road Landfill - Permit No. 057-009D (SL)

Groundwater Monitoring Well	Spring Semi-Annual Event	Fall Semi-Annual Event ¹	Depth (Feet bgs)
GWA-1	Appendix I	Appendix II	56.83
GWA-2	Appendix I	Appendix I	28.60
GWA-3	Appendix I	Appendix I	28.00
GWC-1	Appendix I	Appendix I	42.50
GWC-2	Appendix I	Appendix I	28.60
GWC-3	Appendix I	Appendix I	52.04
GWC-4	Appendix I	Appendix II	20.20
GWC-5	Appendix I	Appendix I	32.60
GWC-6	Appendix I	Appendix II	19.10
GWC-7	Appendix I	Appendix I	32.13
GWC-8	Appendix I	Appendix I	23.58
GWC-9	Appendix I	Appendix I	44.40
GWC-10	Appendix I + Indicators	Appendix II + Indicators	20.30
GWC-11	Appendix I	Appendix I	35.09
GWC-12	Appendix I	Appendix I	20.10
GWC-13	Appendix I	Appendix I	36.40
GWC-14	Appendix I	Appendix I	24.00
GWC-15	Appendix I	Appendix I	38.65
GWC-16	Appendix I	Appendix I	19.00
GWC-17	Appendix I	Appendix I	22.80
GWC-18	Appendix I	Appendix I	35.70

Notes:

1. A geochemical evaluation is performed on wells with inorganic parameter statistically significant increases during the preceding spring event; parameters include alkalinity, chloride, sulfate, calcium, magnesium, potassium, and sodium.
2. Appendix I refers to Appendix I volatile organic compounds and metals as referenced in 40 CFR Part 258, Subpart E.
3. Appendix II refers to Appendix II volatile organic compounds, metals, semi-volatile organic compounds, polychlorinated biphenyls, chlorinated pesticides, chlorinated herbicides, sulfide, and cyanide as referenced in 40 CFR Part 258, Subpart E.
4. Indicators in GWC-10 refer to dissolved arsenic, calcium, magnesium, potassium, sodium, total alkalinity, chloride, and sulfate.
5. bgs - below ground surface.
6. Sample preservation, handling, and analysis will meet the specifications described by "Test Methods for Evaluating Solid Waste Physical/Chemical Methods, third edition" (EPA Publication Number SW-846, 1986, as revised December, 1987) or an equivalent substitute as approved by the administrative authority.

SCOPE OF SERVICES

Groundwater and Surface Water Monitoring:

Walker Mountain Landfill:

The scope of services for Walker Mountain Landfill include two (2) semi-annual detection monitoring, data review, and compliance reporting services of Appendix I parameters; semi-annual leachate sampling and reporting at the active facility outlined in the industrial discharge permit (attached); and, additional annual geochemistry monitoring at up to six wells to be conducted during each second routine semi-annual event for the following Walker Mountain Landfill permits:

- Walker Mountain Sanitary Landfill (Phase 1-3 closed) Permit No. 057-013D (SL)
- Walker Mountain Sanitary Landfill (Phase 4-9) Permit No. 057-020D (MSWL), and
- Walker Mountain C&D Facility Permit No. 057-021D (C&D)

Walker Mountain Landfill (Phases 1-3, 4-9, and C&D) consists of forty-two (42) total groundwater monitoring wells. A summary of the current monitoring plan is presented on Table 1. Groundwater monitoring for the Walker Mountain Landfill includes 40 CFR 258 Appendix I metal (SW6020), and Appendix 1 VOC (SW8260B) sampling and analysis at 39 wells semi-annually (spring and fall). The other three (3) wells are monitored for depth to water during both semi-annual monitoring events. Laboratory analyses must be conducted by a professional groundwater analysis laboratory that is accredited by the National Environmental Laboratory Accreditation Program (NELAP). The response must include the name of the laboratory, proof of accreditation, and qualifications of the laboratory personnel. Wells that are sampled in the spring and have inorganic parameter detection with a statistically significant increase (SSI), require geochemical evaluation in the fall to illustrate that the wells are not impacted by leachate. The geochemical evaluation parameters are included in Table 1. The data will be presented in a table and plotted on Piper and Stiff diagrams and will be discussed in the fall semi-annual report.

The surface water monitoring network for the Walker Mountain Landfill consists of the following eighteen surface water sampling locations.

- Walker Mountain Sanitary Landfill (Phase 1-3 closed) Permit No. 057-013D (SL)
 - Two upgradient surface water sampling locations (SWA-1 and SWA-2), and
 - Seven downgradient locations (SWC-1 through SWC-6, and SWC-15)
- Walker Mountain Sanitary Landfill (Phase 4-9) Permit No. 057-020D (SL)
 - Five locations (SWC-101 through SWC-105)
- Walker Mountain C&D Facility Permit No. 057-021D (C&D)
 - Four locations (SWC-1CD through SWC-4CD)

Surface water sampling and analysis must be conducted semiannually. Parameters and methods for surface water analyses are listed below.

Location	Analytical Parameters	Methodology
Surface Water Samples	Appendix I Metals & Mercury	6020 & 7470A
	Inorganic Ions (Chloride/Sulfate)	E300
	Total Organic Carbon (TOC)	SM5310B
	Chemical Oxygen Demand	E410.4
	Cyanide, Total	9014

Groundwater monitoring wells are purged and sampled using dedicated QED Well Wizard bladder pumps set within the screened interval at each location. Teflon lined tubing from the bladder pump extends to the top of the well casing. Field parameters including pH, specific conductivity, temperature, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity are measured at regular intervals during purging until parameter readings and water levels stabilize (EPA Region 4 - Groundwater Sampling, SESDPROC-301-R4, 2017).

Groundwater level measurements must be taken prior to sampling. Water levels must be completed for Walker Mountain Landfill (Phases 1-3, 4-9, and C&D) within a 24-hour period. Surface completions are to be locked and reasonably maintained by the field crew (e.g. maintain lock and hinge, remove debris from pad, maintain well ID on casing or sign post, etc.). Replacement of surface completions would be considered additional cost. A potentiometric map as well as groundwater flow velocity calculation(s) must be prepared utilizing the groundwater level data collected during each event and provided in the sampling and analysis report as required by the EPD. The potentiometric map and groundwater monitoring report must be stamped by a Georgia registered Professional Geologist.

Statistical analysis shall be conducted as required by the Georgia Solid Waste Management Rules, Chapter 391-3-4.14(20). The analysis shall be conducted to identify whether any Appendix I constituents being analyzed are detected at concentrations which constitute a statistically significant increase (SSI) over background and/or an established Maximum Contaminant Level/Groundwater Protection Standard.

A monitoring report for each event for each permit number will be prepared in accordance with Georgia Solid Waste Management Rules 391-3-4 documenting the sampling and analysis of groundwater and surface water. The report will document a summary of the sampling event and include all analytical results, sampling chain-of-custody, field sampling forms, potentiometric surface map and groundwater flow calculation(s), a site map, statistical analysis, discussion of results, and conclusions and recommendations. The report shall document the analysis and include all field data as required by the EPD and provide an executive summary. This report will be submitted to the EPD with the anticipation of one

round of minor comments that do not require major changes to the format and structure of the report. Two copies of the FINAL APPROVED report(s) will be provided to the City of Rome for placement in their operating record in a hard copy format along with a digital version bound into each report. Should EPD provide comments classified as major comments related to the semi-annual water quality monitoring results which need to be addressed which will require additional correspondence and meetings with EPD not included within the scope of this project, they will be discussed separately on a case-by-case basis as necessary.

Berry Hill Road Landfill:

The scope of services for Berry Hill Road Landfill Permit No. 057-009D (SL) include two (2) semi-annual detection monitoring, data review, and compliance reporting services of Appendix I parameters; semi-annual arsenic and leachate indicator monitoring at GWC-10; Annual assessment monitoring for Appendix II parameters at four wells (GWA-1, GWC-4, GWC-6, and GWC-10); and, additional geochemistry monitoring at up to 10 wells to be conducted during the fall semi-annual event.

The Berry Hill Road Landfill consist of twenty-one (21) total groundwater monitoring wells. Four (4) of the twenty-one (21) monitoring wells are in assessment monitoring and sampled for the full list of Appendix II constituents annually during the fall sampling event. The four (4) assessment wells are sampled for Appendix I constituents during the spring sampling event. The remaining seventeen (17) wells are in detection monitoring status and are sampled semiannually (spring and fall) for Appendix I constituents. A summary of the current monitoring plan is presented on Table 3. In addition to assessment monitoring of well GWC-10 in the fall, EPD has approved sampling GWC-10 for leachate indicator parameters (Table 3) semiannually to determine if periodic arsenic detections are naturally occurring.

Laboratory analyses must be conducted by a professional groundwater analysis laboratory that is accredited by NELAP. The response must include the name of the laboratory, proof of accreditation, and qualifications of the laboratory personnel. Wells that are sampled in the spring and have inorganic parameter detection with a statistically significant increase (SSI), require geochemical evaluation in the fall to illustrate that the wells are not impacted by leachate. The geochemical evaluation parameters are included in Table 3. The data will be presented in a table and plotted on Piper and Stiff diagrams and will be discussed in the fall semi-annual report.

The surface water monitoring network for the Berry Hill Road Landfill includes two upgradient surface water sampling locations (SWA-1 and SWA-2) and four downgradient

locations (SWC-1 through SWC-4). Surface water sampling and analysis must be conducted semiannually. Parameters and methods for surface water analyses are listed below.

Location	Analytical Parameters	Methodology
Surface Water Samples	Appendix I Metals & Mercury	6020 & 7470A
	Inorganic Ions (Chloride/Sulfate)	E300
	Total Organic Carbon (TOC)	SM5310B
	Chemical Oxygen Demand	E410.4
	Cyanide, Total	9014

Groundwater monitoring wells shall be purged and sampled in accordance with sections B and C of the GMP Well Evacuation and Sampling Procedures, which consist of the proper procedures for evacuating three (3) well volumes using a bailer. If turbidity is greater than 25 nephelometric turbidity units an overnight settling period (less than 24 hours) may be allowed before metals sample collection. Field parameters including pH, specific conductivity, temperature, dissolved oxygen (DO), and oxidation-reduction potential (ORP), and turbidity are measured at regular intervals during purging process. Purging continues at each location until approximately three (3) times the well volume is removed.

Groundwater level measurements must be taken prior to sampling. Water levels must be completed for Berry Hill Landfill within a 24-hour period. Surface completions are to be locked and reasonably maintained by the field crew (e.g. maintain lock and hinge, remove debris from pad, maintain well ID on casing or sign post, etc. Replacement of surface completions would be considered additional cost. A potentiometric map as well as groundwater flow velocity calculation(s) must be prepared utilizing the groundwater level data collected during each event and provided in the sampling and analysis report as required by the EPD. The potentiometric map and groundwater monitoring report must be stamped by a Georgia registered Professional Geologist.

Statistical analysis shall be conducted as required by the Georgia Solid Waste Management Rules, Chapter 391-3-4.14(20). The analysis shall be conducted to identify whether any Appendix I constituents being analyzed are detected at concentrations which constitute a statistically significant increase (SSI) over the background and/or an established Maximum Contaminant Level/Groundwater Protection Standard.

A monitoring report for each event will be prepared in accordance with Georgia Solid Waste Management Rules 391-3-4 documenting the sampling and analysis of the groundwater and surface water. The report will document a summary of the sampling event and include all analytical results, sampling chain-of-custody, field sampling forms, potentiometric surface map and groundwater flow calculation(s), a site map, statistical analysis, discussion of results, and conclusions and recommendations. The report shall document the analysis and

include all field data as required by the EPD and provide an executive summary. This report will be submitted to the EPD with the anticipation of one round of minor comments that do not require major changes to the format and structure of the report. Two copies of the FINAL APPROVED report(s) will be provided to the City of Rome for placement in their operating record in a hard copy format along with a digital version bound into each report. Should EPD provide comments classified as major comments related to the semi-annual water quality monitoring results which need to be addressed which will require additional correspondence and meetings with EPD not included within the scope of this project, they will be discussed separately on a case-by-case basis as necessary.

Hourly Rate Schedule:

An hourly rate schedule shall be provided for establishment of the billing structure to be utilized for unscheduled consulting services. The schedule should include all billing levels provided for this project by the proposing firm. Use of hourly billing rates will only occur upon prior approval by the City of Rome.