AGREEMENT

FOR

ENGINEERING SERVICES

This AGREEMENT, between the Norman Utilities Authority (OWNER) and Carollo Engineers, Inc. (ENGINEER);

WITNESSETH

WHEREAS, OWNER intends to rehabilitate clarifiers at the Water Treatment Plan to extend their usable life into the future (PROJECT);

WHEREAS, the OWNER intends to have an engineer conduct condition inspection, prepare technical memorandum, and provide budget estimate for the potential rehabilitation of clarifiers 1 and 2 at the Water Treatment Plant (SERVICES);

WHEREAS, ENGINEER is prepared to provide said SERVICES and detailed design services could be completed under a future contract amendment; and

NOW THEREFORE, in consideration of the promises contained in this AGREEMENT, OWNER and ENGINEER agree as follows:

ARTICLE 1 - EFFECTIVE DATE

The effective date of this AGREEMENT shall be _____.

ARTICLE 2 - COMPLETION DATE

ENGINEER shall complete the SERVICES in accordance with Attachment A, Project Schedule.

ARTICLE 3 - GOVERNING LAW

The laws of the state of Oklahoma shall govern this AGREEMENT.

ARTICLE 4 - SERVICES TO BE PERFORMED BY ENGINEER

ENGINEER shall perform the SERVICES described in Attachment B, Scope of Services.

ARTICLE 5 - COMPENSATION

OWNER shall pay ENGINEER in accordance with Attachment C, Compensation.

ARTICLE 6 - OWNER'S RESPONSIBILITIES

6.1. OWNER-Furnished Data: Upon request, OWNER will provide to ENGINEER all data in OWNER's possession relating to ENGINEER 's SERVICES on the PROJECT. Such data may include operations reports, record drawings, and equipment manuals for the WRF. ENGINEER will reasonably rely upon the accuracy, timeliness, and completeness of the information provided by OWNER. OWNER's data is provided for temporary use or copying by ENGINEER.

6.2. Access to Facilities and Property: OWNER will make its facilities accessible to ENGINEER as required for ENGINEER's performance of its SERVICES

6.3. Timely Review: OWNER will examine ENGINEER's studies, reports, sketches, drawings, specifications, proposals, and other documents; and transmit OWNER comments or other decisions to ENGINEER in a timely manner.

6.4. Meetings and Workshops: OWNER will participate in progress meetings and workshops with ENGINEER or contractor(s) defined in Attachment B, Scope of Services.

6.5. Advertisements, Permits, and Access: Unless otherwise agreed to in the Scope of Services, OWNER will obtain, arrange, and pay for all advertisements for bids; permits and licenses required by local, state, or federal

authorities; and land, easements, rights-of-way, and access necessary for ENGINEER 's SERVICES or PROJECT construction.

6.6. Hazardous Substances: If hazardous substances in any form are encountered or suspected, ENGINEER will stop its own work in the affected portions of the PROJECT to permit testing and evaluation. ENGINEER will, if requested by OWNER, conduct tests to determine the extent of the problem and will perform the necessary studies and recommend necessary remedial measures at an additional fee with contract terms to be negotiated. ENGINEER shall not assume any role in the identification, evaluation, treatment, storage, disposal, or transportation of any hazardous substance or waste.

ARTICLE 7 - STANDARD OF CARE

ENGINEER shall exercise the same degree of care skill and diligence in the performance of the SERVICES as is ordinarily possessed and exercised by a professional engineer under similar circumstances. ENGINEER shall correct the SERVICES that fail to satisfy this standard of care. No warranty, express or implied is included in this AGREEMENT or in any drawing, specifications, report or opinion produced pursuant to this AGREEMENT.

ARTICLE 8 - LIABILITY AND INDEMNIFICATION

8.1 General. Having considered the potential liabilities that may exist during the performance of the SERVICES, the benefits of the PROJECT, ENGINEER's fee for the SERVICES and in consideration of the promises contained in this AGREEMENT, OWNER and ENGINEER agree to allocate and limit such liabilities in accordance with this Article.

8.2 Indemnification and Liability. ENGINEER agrees to indemnify, and hold harmless the OWNER, its officers, servants, and employees, from and against legal liability for all third party tort claims, losses, damage, cost, and expense (including reasonable attorneys' fees and accountants' fees recoverable under applicable law) from bodily injury (including death) or tangible property damage caused by a negligent act, error, or omission of ENGINEER in the performance of services under this Agreement. OWNER agrees to indemnify, and hold harmless ENGINEER, its officers, servants, and employees, from and against legal liability for all claims, losses, damage, cost, and expense (including reasonable attorneys' fees and accountants' fees recoverable under applicable law) caused by a negligent act, error, or omission of the OWNER in the performance of services under this Agreement, provided such indemnification shall be applicable only to the extent sovereign immunity has been waived pursuant to Oklahoma law. ENGINEER and the OWNER each agree to promptly service notice on the other party of any claims arising hereunder, and shall cooperate in the defense of such claims. The acceptance by OWNER or its representatives of any certification of insurance providing for coverage other than as required in this Agreement to be furnished by ENGINEER shall in no event be deemed a waiver of any of the provisions of this indemnity provision. None of the foregoing provisions shall deprive the OWNER of any action, right, or remedy otherwise available to OWNER at common law.

8.3 Employee Claims. ENGINEER shall indemnify OWNER against legal liability for damages arising out of claims by ENGINEER's employees. OWNER shall indemnify ENGINEER against legal liability for damages arising out of claims by OWNER's employees.

8.4 Consequential Damages. To the fullest extent permitted by law, ENGINEER shall not be liable to OWNER for any special, indirect or consequential damages resulting in any way from the performance of the SERVICES.

8.5 Survival. Upon completion of all SERVICES obligations and duties provided for in this AGREEMENT or if this AGREEMENT is terminated for any reason the terms and conditions of this Article shall survive.

ARTICLE 9 - INSURANCE

During the performance of the SERVICES under this AGREEMENT ENGINEER shall maintain the following insurance:

9.1 Worker's compensation insurance for ENGINEER's employees as required by Oklahoma Workers Compensation Statutes.

9.2 Comprehensive general liability insurance with a minimum of $125,000 per accident for bodily injury or death and $25,000 per occurrence for property damage.

9.3 Comprehensive automobile liability insurance with a minimum of $125,000 per accident for bodily injury or death and $25,000 for property damage.

9.4 Professional Liability (errors and omissions) insurance with a minimum policy value of $1,000,000.

ENGINEER shall furnish OWNER certificates of insurance that shall include a provision that such insurance shall not be canceled without at least thirty days written notice to OWNER. All PROJECT contractors shall be required to include OWNER and ENGINEER as additional insured on their General Liability Insurance policies.

ENGINEER and OWNER each shall require its insurance carriers to waive all rights of subrogation against the other and its directors, officers, partners, commissioners, officials, agents and employees for damages covered by property insurance during and after the SERVICES. A similar provision shall be incorporated into all contractual arrangements entered into by OWNER and shall protect OWNER and ENGINEER to the same extent.

ARTICLE 10 - LIMITATIONS OF RESPONSIBILITY

ENGINEER shall not be responsible for: (1) construction means, methods, techniques, sequences, procedures or safety and security precautions and programs in connection with the PROJECT; (2) the failure of any contractor, subcontractor, vendor or other PROJECT participant, not under contract to ENGINEER, to fulfill contractual responsibilities to the OWNER or to comply with federal, state or local laws, regulations, and codes; or (3) procuring permits, certificates and licenses required for any construction unless such responsibilities are specifically assigned to ENGINEER in Attachment B, Scope of Services.

ARTICLE 11 - OPINIONS OF COST AND SCHEDULE

Since ENGINEER has no control over the cost of labor, materials or equipment furnished by others or over the resources provided by others to meet PROJECT schedules, ENGINEER's opinion of probable costs and of PROJECT schedules shall be made on the basis of experience and qualifications as a professional engineer. ENGINEER does not guarantee that proposals, bids, or actual PROJECT costs will not vary from ENGINEER's cost estimates.

ARTICLE 12 - REUSE OF DOCUMENTS

Upon OWNER's request ENGINEER shall furnish OWNER with deliverables and/or other data on electronic media. All documents, including but not limited to, drawings, specifications and computer software prepared by ENGINEER pursuant to this AGREEMENT are instruments of Service in respect to the PROJECT. Said documents are not intended or represented to be suitable for reuse by OWNER or others on extensions of the PROJECT or on any other PROJECT.

ARTICLE 13 - TERMINATION

This AGREEMENT may be terminated by either party upon written notice in the event of substantial failure by the other party to perform in accordance with the terms of this AGREEMENT. The non-performing party shall have fifteen (15) calendar days from the date of the termination notice to cure or to submit a plan for cure acceptable to the other party.

OWNER may terminate or suspend performance of this AGREEMENT for OWNER's convenience upon written notice to ENGINEER. ENGINEER shall terminate or suspend performance of the SERVICES on a schedule acceptable to OWNER. If termination or suspension is for OWNER's convenience, OWNER shall pay ENGINEER for all the SERVICES performed to date, amount not to exceed the normal fee amount due for the SERVICES rendered and termination or suspension expenses. Upon restart, an equitable adjustment shall be made to ENGINEER's compensation.

ARTICLE 14 - DELAY IN PERFORMANCE

Neither OWNER nor ENGINEER shall be considered in default of this AGREEMENT for delays in performance caused by circumstances beyond the reasonable control of the non-performing party. For purposes of this AGREEMENT, such circumstances include, but are not limited to abnormal weather conditions; floods; earthquakes; fire; epidemics; war; riot and other civil disturbances; strikes, work slowdowns and other labor disturbances; sabotage; judicial restraint; and inability to procure permits, licenses, or authorizations from any local, state, or federal agency for any of the supplies, materials, accesses, or SERVICES required to be provided by either OWNER or ENGINEER under this AGREEMENT.

Should such circumstances occur the non-performing party shall, within a reasonable period after being prevented from performing, give written notice to the other party describing the circumstances preventing continued performance and the efforts being made to resume performance of this AGREEMENT.

ARTICLE 15 - COMMUNICATIONS

Any communication required by this AGREEMENT shall be made in writing to the address specified below:

ENGINEER: Tom Crowley, Vice President
Carollo Engineers, Inc.
211 N Robinson, Ste. 1300 North Tower
Oklahoma City, OK 73102
816-326-6714
TCrowley@carollo.com

OWNER: Rachel Croft
Norman Utilities Authority (NUA)
201-C West Gray
P.O. Box 370
Norman OK 73070
405-217-7778
Rachel.Croft@normanok.gov

Nothing contained in this Article shall be construed to restrict the transmission of routine communications between representatives of ENGINEER and OWNER.

ARTICLE 16 - WAIVER

A waiver by either OWNER or ENGINEER of any breach of this AGREEMENT shall be in writing. Such a waiver shall not affect the waiving party's rights with respect to any other or further breach.

ARTICLE 17 - SEVERABILITY

The invalidity, illegality, or unenforceability of any provision of this AGREEMENT or the occurrence of any event rendering any portion or provision of this AGREEMENT void shall in no way affect the validity or enforceability of any other portion or provision of this AGREEMENT. Any void provision shall be deemed severed from this AGREEMENT, and the balance of this AGREEMENT shall be construed and enforced as if this AGREEMENT did not contain the particular portion or provision held to be void. The parties further agree to amend this AGREEMENT to replace any stricken provision with a valid Provision that comes as close as possible to the intent of the stricken provision. The provisions of this Article shall not prevent this entire AGREEMENT from being void should a provision, which is of the essence of this AGREEMENT, be determined void.

ARTICLE 18 - INTEGRATION

This AGREEMENT represents the entire and integrated AGREEMENT between OWNER and ENGINEER. It supersedes all prior and contemporaneous communications, representations, and agreements, whether oral or written, relating to the subject matter of this AGREEMENT. This AGREEMENT, including its attachments and schedules, may only be changed by a written amendment executed by both parties. The following attachments and schedules are hereby made a part of this AGREEMENT:

Attachment A – Schedule
Attachment B – Scope of Services
Attachment C – Compensation

ARTICLE 19 - SUCCESSORS AND ASSIGNS

OWNER and ENGINEER each binds itself and its directors, officers, partners, successors, executors, administrators, assigns, and legal representatives to the other party to this AGREEMENT and to the directors, officers, partners, successors, executors, administrators, assigns, and legal representatives of such other party in respect to all provisions of this AGREEMENT.

IN WITNESS WHEREOF, OWNER and ENGINEER have executed this AGREEMENT.
DATED this 7th day of December 20 21.

Carollo Engineers, Inc. – ENGINEER

ATTEST

By: Thomas O. Crowley, P.E. | Rebecca Poole

Printed Name: Thomas O. Crowley, PE | Rebbecca Poole, PE

Title: Vice President | Associate Vice President

Norman Utilities Authority- OWNER

APPROVED as to form and legality this 6 day of December, 20 21.

City Attorney

APPROVED by the Trustees of the Norman Utilities Authority this _____ day of _____, 20____.

ATTEST

By: _____ | _____

Printed Name: Breea Clark | Brenda Hall

Title: Chairman | Secretary

ATTACHMENT A

CITY OF NORMAN

CLARIFIER 1 AND 2 REHABILITATION

SCHEDULE

SCHEDULE

ENGINEER shall begin work under this Agreement within ten (10) days of a Notice to Proceed and shall complete the work in accordance with the schedule below.

The estimated project duration is 12 weeks from Notice to Proceed for the Basic Services. This includes providing an estimated budgetary price by February 28, 2022 in draft form. If additional services are deemed necessary, a revised schedule will be prepared.

Milestone	Task Weeks	Total Weeks from NTP
Notice to Proceed	0	0
Kickoff Meeting	2	2
Task 2 Prepare Draft TM with Est. Budetary cost	6	8
NUA review of Draft TM	2	10
Prepare Final Technical Memorandum	2	12

ATTACHMENT B
CITY OF NORMAN
CLARIFIER 1 AND 2 REHABILITATION
SCOPE OF SERVICES

EXECUTIVE SUMMARY

The City of Norman/Norman Utilities Authority (NUA) [Owner] currently owns and operates the Norman WTP located at 3000 East Robinson Street. The WTP currently has four (4) solids contact clarifiers which are employed to lime soften the raw water from Lake Thunderbird. Clarifiers No.1 and No. 2 are "Accelator" reactor/clarifiers which were manufactured by Infilco Degremont (IDI) as part of the original water plant construction in 1964. The Accelator technology license and manufacturing technology is currently owned by Suez Water Technologies and Solutions (Suez). Clarifier No. 1 and No. 2 are currently rated at 3.0 MGD each and are utilized to "trim" the water production rate when operated in concert with the larger clarifiers (No. 3 and No 4) and are essential for plant flowrate control. In 2012, as part of the Phase I improvements, the clarifier turbine and rake drive were powered from the new electrical room installed in the existing lime storage and feed building. In 2020, as part of the Phase II improvements, the lime feed to the reactor clarifiers was upgraded to include these clarifiers as part of the lime feed loop.

The clarifiers were rehabilitated in the early 2000's and, at the time, there was some question as if there was sufficient metal remaining to allow a subsequent full rehabilitation (SP-10 near white metal blast and high solids epoxy coating) of the clarifiers. A recent visual inspection conducted by Suez indicated that the clarifiers could be rehabilitated, however, this inspection did not include metal thickness testing.

The Owner would like to conduct a condition evaluation of the clarifiers No. 1 and No. 2 to determine the total costs required to provide a reliable capacity from the clarifiers for the next 20-40 years. The NUA would like to determine the total costs prior to their budgeting for the following calendar year. Therefore, NUA has requested Carollo Engineers, Inc. (Engineer) to conduct a condition assessment of the existing clarifiers and determine the costs for either rehabilitation or replacement of the clarifiers prior to **February 28, 2022**. The project shall include the following tasks:

1. Conduct a condition assessment of the clarifiers to determine if rehabilitation or replacement of the mechanism is required.
2. Prepare a brief technical memorandum detailing the results of the condition assessment which includes a cost opinion for the recommended action for clarifiers No. 1 and No. 2.
3. Prepare plans and specifications for the construction of the recommended action for Clarifiers No. 1 and No. 2.
4. Assist the NUA with bidding of the recommended clarifier improvements.
5. Perform construction administration services as specified herein.
6. Perform construction inspection services as specified herein.
7. Include the costs of replacing catwalks for Clarifiers No. 1 and No. 2 to match catwalks on Clarifiers No. 3 and No. 4

DETAILED SCOPE OF SERVICES

BASIC SERVICES

Task 1 Project Delivery and Communication

General

Engineer will provide project delivery services necessary for the administration of the combined Task 1 of the Project, including efforts required for proper resource allocation, schedule development and monitoring, budget review and control, client correspondence and coordination, internal quality assurance/quality control (QA/QC) activities and other project administrative and customary activities required for timely completion of the work. Engineer will prepare and submit invoices in a form that is acceptable to the NUA.

Deliverables

Major Deliverables associated with Task 1 are as follows:

1. Monthly Progress Reports
2. Monthly Updates to Action/Decision Logs
3. Meeting Minutes and Agendas

Task 1.1 – Monthly Progress Status Reports

Prepare and submit to NUA monthly project progress status reports for Task 1 services that identify.

1. The work that has been performed in the period.
2. Work activities anticipated in the next month.
3. Action items required of the Trust for an efficient and effective delivery of Engineer's services.
4. Potential project scope variances with corrective actions suggested by Engineer.
5. A general assessment of Engineer's ability to meet project schedule milestones, including identification of any delays beyond its control, and an estimate of the work percent completion for each task series in the Scope of Services based on earned value of the work completed.

A short narrative will be provided describing the work activities performed for each task within a given task series. NUA will provide direction to Engineer in a timely manner with respect to each variance discussed in each monthly progress status report. The monthly progress status report will be submitted to the NUA with each monthly invoice.

Throughout the duration of the project, Engineer will prepare and update the action and decision logs to keep a record of action and decision items needed, when these were completed, and the goals and results of these actions and decisions. These will be updated monthly and included with the monthly progress reports.

Task 1.2 – Project Meetings and Workshops - General

Engineer will conduct periodic progress status meetings with NUA during the performance of all tasks. The purpose of these meetings will be to:

1. Update the team on project status, progress achieved, budget and schedule status/concerns and potential deviations from the Scope of Services and corrective actions.

2. Discuss project issues, coordinate work activities and review work activities planned for the upcoming period. These progress meetings will be in addition to other work product review meetings or workshops with Trust as identified herein. Engineer will prepare an agenda for each meeting. Within fourteen (14) calendar days after meeting, Engineer will prepare and distribute meeting minutes.

Task 1.3 – Project Meetings and Workshops - Specific

Engineer will conduct special project meetings and workshops at key milestones in the project including project initiation and site evaluation.

Subtask 1.3.1 – Review of Draft TM

Engineer will conduct a workshop to review the evaluation of the rehabilitation/replacement for Clarifier No. 1 and No. 2.

Task 2 Prepare Draft and Final Technical Memorandum

General

Engineer will conduct a detailed condition assessment of clarifier No. 1 and No. 2 which will involve ultrasonic testing of key structural members, and visual inspection of the dewatered clarifier.

Assumptions:

1. No more than fifteen (15) ultrasonic thickness tests will be conducted on each clarifier.
2. Coatings will be sampled for lead content in no more than five (5) locations at each clarifier. The coating sample locations will be repaired by SSPC-SP1 with 100% high solids epoxy repair coating.
3. Visual inspection of Clarifier No. 1 and No. 2 will be conducted in one visit. NUA will be responsible for draining and cleaning clarifiers prior to scheduled visit. Engineer shall provide at least 2 weeks' notification for NUA to drain/clean clarifiers prior to conducting the site visits.
4. Visual inspection of clarifier No. 1 and No. 2 will include non-destructive hammer testing of the existing concrete to determine if additional services for destructive testing will need to be employed to further determine suitability of concrete for continued 20 years of service life anticipated from new equipment. If destructive techniques are employed to analyze the clarifier structural condition, the areas damaged by these techniques will be repaired immediately following sample collection.
5. Shop drawings of the existing clarifiers will be provided by NUA (as available).

Task 2.1 – Conduct Condition Assessment of Clarifier No. 1 and No. 2

Subtask 2.1.1 – Conduct Visual Inspection of Clarifier No. 1 and No. 2

Engineer will conduct a visual inspection of the reactor clarifier to document current condition of the reactor clarifier structural members, clarifier mechanical operation, and clarifier coating. It is assumed that NUA will drain and clean clarifier prior to Engineer's visit as long as sufficient notice is provided as specified herein.

The visual inspection will also include non-destructive testing of the concrete consisting the use of a rebound hammer to test surface hardness and determine areas of concern for additional testing (see additional Services).

Subtask 2.1.2 – Conduct Ultrasonic Thickness Testing of Clarifier No. 1 and No. 2

Utilizing the existing shop drawings and results of the visual assessment, Engineer will coordinate with Suez Technologies to identify the critical structural members and the location on which to conduct ultrasonic thickness testing. The ultrasonic thickness testing will be conducted in a maximum of seven (7) locations for each reactor clarifier.

Subtask 2.1.3 – Conduct Environmental Testing of Clarifier Coating

Engineer will sample the existing coating in no more than five (5) locations in each clarifier which will be analyzed for lead content to determine the need for environmental remediation of the coating in any demolition/rehabilitation effort. The holidays will be repaired by SSPC-SP1 preparation with application of a 100% high solids epoxy repair coating.

Task 2.2 – Prepare Draft and Final Technical Memorandum

Engineer will prepare a draft and final technical memorandum that includes the following:

1. Results of condition assessment including recommendations regarding rehabilitation and/or replacement of the clarifier mechanism.
2. Preliminary drawings of rehabilitation/replacement of clarifier.
3. Cost opinion for rehabilitation and/or replacement of the clarifier mechanism. Costs will be based upon quotes from manufacturers/contractors regularly engaged in clarifier rehabilitation/repair. Costs will include replacement of the existing walkway surfaces to match the walkway surfaces on Clearwells No. 3 and No. 4.
4. Estimated schedule/duration of rehabilitation/repair.

Task 3 **Design Phase Services – To be authorized under a future amendment.**

Task 4 **Bidding Phase Services – To be authorized under a future amendment.**

Task 5 **Construction Administration Services – To be authorized under a future amendment.**

Task 6 **Construction Inspection Services – To be authorized under a future amendment.**

ADDITIONAL SERVICES

Additional Services shall only be provided upon prior written and clearly detailed direction of the Utility Director. The Engineer may be directed to perform any, all, or none of the following Additional Services that may include, but not be limited to, the following:

- Destructive testing of Structural concrete (2 locations)

Compensation for Additional Services: Included in the not to exceed total compensation is an allowance for Additional Services in an amount not to exceed $18,000 in accordance with the unit costs negotiated between Owner and Engineer. This allowance is to be used and paid to the Engineer in the manner established in this Contract unless other compensation means are agreed to in writing by the Utility Director. The Additional Services compensation may only be used after the Engineer has performed Additional Services upon prior written authorization by the Utility Director.

Time for Additional Services: Upon consideration of additional services, Engineer will provide an updated project schedule to include those additional services authorized by NUA.

END OF ATTACHMENT B - SCOPE OF SERVICES

ATTACHMENT C
CITY OF NORMAN
CLARIFIER 1 AND 2 REHABILITATION
COMPENSATION

COMPENSATION

The OWNER will compensate the ENGINEER on a lump sum basis for the SERVICES rendered. The lump sum fee is broken down below by task as defined in the Scope of Services:

ENGINEER may submit interim statements, not to exceed one per month, for partial payment for SERVICES rendered. The statements to OWNER will be by task for the percentage of work actually completed. The OWNER shall make interim payments within 30 calendar days in response to ENGINEER's interim statements.

Clarifier No. 1/No. 2 Rehabilitation/Replacement

			Engineers/Scientists				Support Staff				Subtotals		Subconsultants				
BASIC SERVICES			Lead Technical Advisor	Project Manager /QC Manager	Engineer V-VI (Professional)	Engineer I-II (EIT)	Senior Technician	Technician	Document Processing	PCEC	Carollo Subtotal	Carollo Subtotal	Terracon	Wiss, Janney, Elstner Associates, Inc.	Suez Technologies	Subs Sububtotal	TOTAL FEE
Task #		Subtasks Description	$ 280.00	$ 275.00	$ 185.00	$ 155.00	$ 171.00	$ 117.00	$ 110.00	$ 12.00	Hours	Fee	10%	10%	0%		
1	**Project Coordination and Communication**																
	1	Monthly Project Status Reports (Est 3)		3	6				3	$ 144.00	12	$ 2,409				$ -	$ 2,409
	2	Project Meetings and Workshops - General (Est 2)		2	4				2	$ 96.00	8	$ 1,606				$ -	$ 1,606
	3	Project Meetings and Workshops (Est 1)		1	4				2	$ 84.00	7	$ 1,319				$ -	$ 1,319
2	**Prepare Draft and Final TM**																
	2.1 Conduct Condition Assessment of RC 1/2																
	2.1.1	Conduct Visual Inspection of C#1 and #2	2	4	24					$ 360.00	30	$ 6,460			$ 3,500	$ 3,500	$ 9,960
	2.1.2	Conduct Ultrasonic Thickness Testing															$ -
		Develop Testing Plan		2	8					$ 120.00	10	$ 2,150				$ -	$ 2,150
		Conduct Thickness Testing RC#1 & 2			2					$ 24.00	2	$ 394	$9,240.00			$ 9,240	$ 9,634
	2.1.3	Conduct Environmental Testing															
		Develop Testing Plan		1	2					$ 36.00	3	$ 681				$ -	$ 681
		Conduct Environmental Testing RC#1 &2			2					$ 24.00	2	$ 394	$7,700.00			$ 7,700	$ 8,094
	2.2 Prepare Draft and Final TM																
	2.2.1	Prepare Draft TM	2	8	24	32			16	$ 984.00	82	$ 14,904				$ -	$ 14,904
	2.2.2	Prepare Final TM		4	6	12			4	$ 312.00	26	$ 4,822				$ -	$ 4,822
Total Estimated Hours and Fee (Basic Services)			4	25	82	44	0	0	27		182	$ 35,139	$ 16,940	$ -	$ 3,500	$ 20,440	$ 55,579
ADDITIONAL SERVICES																	$ 18,082
	A1.1	Develop SamplingPlan		1	3					$ 48.00	4	$ 878				$ -	$ 878
	A1.2	Conduct Coring of Clarifier Concrete (2 Loc)			4					$ 48.00	4	$ 788	$ 3,300.00			$ 3,300	$ 4,088
	A1.3	Conduct Petrographic Analysis of Concrete (2 Loc)								$ -	0	$ -		$ 11,000.00		$ 11,000	$ 11,000
	A1.4	Analyze report and incorporate into TM	6	2						$ 96.00	8	$ 2,116				$ -	$ 2,116