#### **RESOLUTION NO. 2022 - 25**

A Resolution approving the award of a Professional Services Contract to Jacobs Engineering Group Inc. for the Solids Capacity Improvement Project 60%, 90%, 100%, and Bid Services, Project 2019-10.

#### **RECITALS:**

Whereas, in 2019, the City undertook a formal procurement process to request proposals (RFP) for the Water Reclamation Facility Biosolids Storage Tank and Grit System Expansion ("Project"); and

Whereas, Jacobs Engineering Group Inc. ("Jacobs") was the successful proposer and the City executed a Professional Services Contract on April 7, 2020 for the first phase of the project during which Jacobs agreed to develop a Project Definition, but with the understanding that later phases described in the RFP, would be separately contracted as the Project advanced; and

Whereas, on January 29, 2021 the City received the WRF Biosolids Storage Tank and Grit System Expansion Project 2019-10, Project Definition Report (Phase 1); and

Whereas, this report listed the process and evaluations that took place and the final recommendations for moving forward with the 30% Schematic Design; and

Whereas, on December 10, 2021, the City executed a Professional Services Agreement with Jacobs to complete Phase 2 of the Project in which Jacobs agreed to provide the 30% Schematic Design; and

Whereas, the 60%, 90%, 100%, and Bid Services report has been received and the final recommendations for moving forward with the 60%, 90%, 100%, and Bid Services.

Whereas, the City has negotiated the type of services, work scope, project team, sub-consultants, fee, and schedule with Jacobs for this of the Project. Future detailed design and construction phases are anticipated; and

Whereas, the estimate for this scope of work is \$1,232,403; and

Whereas, project funding is included in the adopted FY 22 and FY 23 Wastewater Capital Fund (77) budget for the professional services of the biosolids storage tank and grit system expansion design.

## NOW, THEREFORE, BE IT RESOLVED BY THE COMMON COUNCIL OF THE CITY OF MCMINNVILLE, OREGON, as follows:

 That an amendment to the Professional Services Agreement with Jacobs for Phase 2 of the Water Reclamation Facility (WRF) Solids Capacity Improvement Project 60%, 90%, 100%, and Bid Services, Project 2019-10, in the amount of \$ 1,232,403 is hereby approved.

- 2. The City Manager is hereby authorized and directed to execute the First Amendment to the December 10, 2021 Professional Services Agreement with Jacobs, which First Amendment is substantially similar to Exhibit 1 attached hereto.
- 3. That this resolution shall take effect immediately upon passage and shall continue in full force and effect until revoked or replaced.

Adopted by the Common Council of the City of McMinnville at a regular meeting held the 26th day of April 2022 by the following votes:

Ayes: Drabkin, Garvin, Geary,	, Menke, Peralta, Chenoweth
Nays:	
Approved this 26 <sup>th</sup> day of April 2022.	
Scora. Hu	
MAYOR	
Approved as to form:	Attest:
A G.JH.	Claudia Coneces
City Attorney	City Recorder

#### Exhibit A:

First Amendment to Professional Services Agreement

#### CITY OF McMINNVILLE FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT

#### Water Reclamation Facility Biosolids Storage Tank and Grit System Expansion, Phase 2

This First	Amendment to Professional Services Agreement ("First Amendment") is effective the
day of	2022 ("Effective Date"), by and between the City of McMinnville, a municipal
corporation	n of the State of Oregon ("City"), and Jacobs Engineering Group Inc., a Delaware corporation
("Consulta	ant"), upon the terms and conditions set forth below.

#### RECITALS

WHEREAS, the City entered into a Professional Services Agreement ("Agreement") with Consultant on December 10, 2021 relating to the Water Reclamation Facility Biosolids Storage Tank and Grit System Expansion Phase 2 Project ("Project"); and

WHEREAS, the City requires additional services which Consultant is capable of providing, under terms and conditions hereinafter described; and

WHEREAS, the City and Consultant anticipate that additional time is needed to complete the Services stated in the Agreement and the Additional Services described in this First Amendment; and

WHEREAS, Consultant represents that Consultant is qualified to perform the Additional Services described herein on the basis of specialized experience and technical expertise; and

WHEREAS, Consultant is prepared to provide such Additional Services as the City does hereinafter require;

NOW, THEREFORE, in consideration of these mutual promises and the terms and conditions set forth herein, the parties agree as follows:

#### **AGREEMENT**

The Agreement is amended as follows:

#### Section 1. Additional Services To Be Provided

Consultant will perform the Additional Services more particularly described in **Exhibit A**, attached hereto and incorporated by reference herein, for the Project pursuant to all original terms of the Agreement, except as modified herein.

#### Section 2. Time for Completion of Additional Services

The Additional Services provided by Consultant pursuant to this First Amendment shall be completed by no later than June 30, 2023.

#### **Section 3. Compensation**

The City agrees to pay Consultant on a time and materials basis, guaranteed not to exceed ONE MILLION TWO HUNDRED THIRTY-TWO THOUSAND FOUR HUNDRED THREE DOLLARS (\$1,232,403) for performance of the Additional Services ("Additional Compensation Amount") Consultant's estimate of time and materials is attached hereto as **Exhibit B**, and incorporated herein by reference.

#### **Section 4. All Other Terms**

All of the other terms and conditions of the Agreement shall remain in full force and effect, as therein written. Unless otherwise defined herein, the defined terms of the Agreement shall apply to this First Amendment.

The Consultant and the City hereby agree to all provisions of this First Amendment.

CONSULTANT:	CITY:
JACOBS ENGINEERING GROUP INC.	CITY OF McMINNVILLE
Bv.	Rv
By:	By:
Print Name:	Print Name:
As Its:	As Its:
Employer I.D. No	
	APPROVED AS TO FORM:
	Annual D. Cail Himms City Attacks
	Amanda R. Guile-Hinman, City Attorney City of McMinnville, Oregon

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#### **Exhibit A**

# Agreement for Professional Services for the City of McMinnville Water Reclamation Facility (WRF) Solids Treatment Capacity Improvements Project Project 2019-10

#### PROJECT DESCRIPTION

McMinnville's Water Reclamation Facilities Plan (2009, CH2M HILL/West Yost) recommended expanding the WRF in conjunction with reducing collection system infiltration and inflow (I&I) to address future wastewater treatment needs. Related to the solids treatment and headworks processes, the Facilities Plan included: construction of a 1-MG biosolids storage tank and mixer; construction of a dewatering process and dry biosolids storage; upgrade of odor control; expansion of grit removal; modification of the influent screens; and, addition of thermal drying. Since the Facilities Plan: the City has deferred some of the recommended projects; population growth, thus flows and lows, have not increased as projected; and, technologies have changed.

The Project Definition Report (2021, Jacobs) for the Biosolids Storage Tank and Grit System Expansion recommended implementation of the Solids Treatment Capacity Improvements Project, including the following major components:

- Addition of two autothermal thermophilic aerobic digesters (ATADs) based on the Thermal Process Systems Thermaer™ process.
- Conversion of the three existing ATAD tanks to Thermal Process Systems SNDR™ process with consideration for constructing a new tank for the SNDR process, rather than retrofit of the existing tanks.
- Construction of an ATAD Support Building to house the equipment associated with the ATAD and SNDR processes.
- Replacement of the existing odor control system.
- Improvements to the existing decant system at the Biosolids Storage Tank.
- Accommodating a future project to implement dewatering and cake storage.
- Replacement of the Headworks PLC.

The 30% Schematic Design began in December 2021 and will be completed by May 2022. The scope described herein is based on delivery of the 60%, 90%, 100%, and

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Bid Services phases. The Work is proposed on a Time & Materials basis with a not-to-exceed budget of \$1,232,403.

# BASIS OF DESIGN SCOPE AND FEE DEVELOPMENT

The following key assumptions were made in the compilation of this scope of work and the estimation of the level of effort:

- 1) The design and bid services phases scoped herein will last 12 months from authorization to proceed and be completed by June 2023.
- 2) No additional workshops or deliverables are included beyond those identified in the Work Approach.
- 3) The design will be based on the federal, state, and local codes and standards in effect on the effective date of the authorization to proceed. Any changes in these codes may necessitate a change in scope.
- 4) Wiring diagrams related to PLC-30 replacement will be produced during the construction phase and are not scoped herein.

#### **City-Provided Services**

- City will provide to Consultant all data in City's possession relating to Consultant's services on the Project. Consultant will reasonably rely upon the accuracy, timeliness, and completeness of the information provided by the City.
- 2) City will make its facilities accessible to Consultant as required for Consultant's performance of its services and will provide labor and safety equipment as required by Consultant for such access. City will perform, at no cost to Consultant, such tests of equipment, machinery, pipelines, and other components of City's facilities as may be required in connection.
- 3) City will give prompt notice to Consultant whenever City observes or becomes aware of any development that affects the scope or timing of Consultant's services, or of any defect in the work of Consultant.
- 4) The City will examine information submitted by Consultant and render in writing or otherwise provide decisions in a timely manner.
- 5) The City will furnish required information and approvals in a timely manner.
- The City will provide a utility locate service to mark existing utilities, if necessary.
- 7) The City will develop any required permit applications, supporting information, and required reports and pay all permit processing fees.

#### WORK APPROACH

The project design work will be carried out using a phased design delivery approach to assure a logical and progressive completion of the design work. A specific list of work products and deliverables are identified in the tasks below. Design review workshops will be conducted with the City's personnel, key individuals from the Consultant's project team and others as needed; the design review workshops will be conducted at critical design milestones as identified in the following section.

Task 1: Project Management

Task 2: Final Design

Task 3: Bid Period Services

Task 4: Geotechnical

Task 5: Quality Management

Task 6: Estimate of Probable Construction Cost

Task 7: Additional Services

#### **Task 1: Project Management**

The purpose the Project Management task is to establish and monitor compliance with project budget and schedule.

#### Task 1.1: Progress Meetings and Updates

The Consultant's project manager will talk or email with the City's project manager weekly to review project progress and discuss upcoming work activities. The Consultant's project manager will provide monthly email summaries of work completed, upcoming activities and unresolved issues. All in-person meetings and workshops will be held at the WRF unless noted otherwise. When possible, meetings will be conducted over video conference.

#### Task 1.2: Project Management Plan

The Project Management Plan includes project instructions and a project health and safety plan for the Consultant's team. The plan developed in the previous design phase will be used for the remainder of design.

#### Task 1.3: Invoicing, Cost and Schedule Control

The Consultant's project manager will manage, administer, coordinate, and integrate work of the Consultant's team as required to deliver the project within budget and on schedule. The Consultant's project manager will prepare and submit to the City's project manager on a monthly basis, a brief cost and schedule status report and updated summary project schedule showing actual versus projected. The report

shall include a narrative description of progress to-date, actual costs for each major task, estimates of percent complete, and potential cost variances.

**Deliverables:** Monthly status reports and invoices.

#### Task 2: Final Design

#### Task 2.1: Prepare 60% Intermediate Design Documents

The purpose of this task is to utilize the conceptual decisions of the project that were made in the schematic design phase and develop the design in sufficient detail to convey the design intent to City staff. The 60 percent design level construction drawings and specifications will depict the final location and size of major components and systems.

Design development will include the following major work elements:

- Update and finalize process flow diagrams
- Finalize equipment selection and develop equipment data sheets
- Update and finalize P&ID's
- Prepare electrical one-line and typical control diagrams
- Prepare preliminary calculations
- Develop detailed drawings
- Prepare design details for each required discipline
- · Develop draft specifications
- Update construction cost estimate
- Develop preliminary construction schedule

Consultant will conduct one 3-hour workshop to conduct a review of the work products with the City staff. Consultant's project manager, design manager and lead engineers will attend. Workshop will be hybrid with management team meeting with City in person and engineers meeting virtually.

**Deliverables:** 60% Design Development Drawings & Technical Specifications, and workshop agenda and minutes.

#### Task 2.2: Prepare 90% Contract Documents

The purpose of this task is to develop the final review contract drawings, specifications, design details, and schedules for competitive bidding. The following activities will be completed under this subtask:

 Finalize specification Divisions 0 and 1 documents, including General Conditions, General Requirements, bidding documents, bonds, and Instruction to Bidders.

- Prepare construction drawings and design details.
- Prepare technical specifications.
- Prepare final calculations.
- Complete final checking and coordination review.
- Coordinate with City on plan reviews by outside agencies.
- Coordinate with City on advertising and bidding process.

Consultant will conduct one 3-hour workshop to conduct a review of the work products with the City staff. Consultant's project manager, design manager and lead engineers will attend. Workshop will be hybrid with management team meeting with City in person and engineers meeting virtually.

**Deliverables:** 90% review construction documents, workshop agenda and minutes

### Task 2.3: Incorporate Final Review Comments & Prepare Bid Set (100% Complete)

Consultant will modify the contract documents to reflect all agreed upon final review comments from the City, DEQ and Consultant's quality control review team. Reproducible final documents will then be submitted to the City.

**Deliverables:** Record of comments and responses, final 100% construction documents.

#### Task 2.4: Site Visits

The Consultant will travel to visit two recent ATAD installations in Parker and South Fort Collins, CO. Budget is included for two Consultant staff members to travel and attend the site visits in a 2-day trip.

#### Task 3: Bid Period Services

The Consultant shall provide technical assistance as needed to interpret the contract documents during the construction contract bid phase. Correspondence with prospective bidders shall be documented in writing. Two Consultant team members shall attend the prebid conference and will assist in preparing up to three technical addenda to the contract documents (if needed). City is responsible for managing the advertisement and bidding process.

**Deliverables:** Written documentation of correspondence with bidders. Technical addenda to the contract documents (if needed).

#### Task 4: Geotechnical

As part of the 30% design effort, Jacobs completed geophysical exploration to determine depth of the bedrock at the project site, and to obtain shear wave velocity measurements to depth of about 450 feet. Jacobs used the geophysical exploration data, and the 2013 geotechnical data to complete seismic deformation and site-response analyses to identify the need for ground improvement or deep foundation for the new facilities.

The geotechnical evaluation for the 60% design will include development of design recommendations including foundation alternative evaluation, bearing capacity, lateral earth pressure, and settlement evaluation.

**Deliverables:** Geotechnical Recommendations Report

#### Task 5: Quality Management

The Consultant will carry out a quality assurance program (QAP). The purpose of this QAP is to monitor the quality of the Project through the use of internal quality assurance/quality control (QA/QC) reviews as described herein. The Consultant will manage multidiscipline internal QA/QC review activities with the senior review team. A QC review will be performed on process and cost calculations. A formal QC review will be performed prior to the City's review of the draft 60 and 90 percent documents.

A Quality Management Plan (QMP) will be prepared for the project to serve as a guide for all phases of the project. Key features of the QMP will include:

- A single point of contact responsible for all quality management.
- Independent quality review performed by discipline-specific quality reviewers to provide critical analysis without bias.
- Procedures for engineers; detailed checks of reports, calculations, drawings, design details and specifications.

Audits by QA personnel will be conducted to verify conformance with the approved QMP and confirm that required checking and review functions are completed.

Design quality review documentation will demonstrate that quality review process is complete and review comments are acceptably addressed as a component of the overall records management system. The review will be documented in a Technical Verification Form.

The level of effort for this task includes preparation of the QMP and QC reviews for the 60 and 90 percent phases.

**Deliverables:** Written documentation verifying completion of QC review.

#### **Task 6: Estimate of Probable Construction Cost**

For the 60% and 90% design phases, Consultant will prepare an Estimate of Probable Construction Cost. This cost estimate will be prepared based on the drawings and specifications, scale-up or scale-down factors, and cost data from other projects. It is intended that the estimate will include sufficient contingency to cover expected cost impacts that will be identified as the design evolves.

The estimate provided above will be based on the judgment and experience of the Consultant and shall not be construed as a guarantee of cost. In addition, predictions of economic feasibility, operating efficiency, costs and such other matters developed during designs, are forecasts based upon the judgment and experience of the Consultant and shall not constitute a guarantee of the final project cost.

In providing opinions of cost, financial analyses, economic feasibility projections, and schedules for the Project, Consultant has no control over cost or price of labor and materials; unknown or latent conditions of existing equipment or structures that may affect operation or maintenance costs; competitive bidding procedures and market conditions; time or quality of performance by operating personnel or third parties; and other economic and operational factors that may materially affect the ultimate Project cost or schedule. Therefore, Consultant makes no warranty that City's actual Project costs, financial aspects, economic feasibility, or schedules will not vary from Consultant's opinions, analyses, projections, or estimates.

**Deliverables:** AACE Class 1 and 2 estimate of probable construction cost.

#### Task 7: Additional Services Allowance

The City may elect to request the following services from Consultant during the course of the project. The scope, schedule and fee for each additional service will be negotiated and approved by the City prior to Consultant beginning the associated work. Additional services could include but are not limited to the items listed below. Note that the allowance provided would not fully fund the listed items.

- Upgrade or modifications of any existing building or structures including a feasibility study to make sure the proposed modifications can be implemented cost-effectively.
- Power system analyses for existing facilities. No additional secondary or emergency power source will be provided as part of the project.
- Modification or expansion of the I&C system or software for the existing processes, except where noted previously.
- Multiple construction contracts, phases or schedules.
- Studies, including wetlands mitigation, archaeological investigations, site history investigations, hazardous wastes, corrosion of existing piping, asbestos presence and similar study efforts.
- Legal, easement or plat surveys.

- Additional alternative plant site layouts.
- Evaluation of any structural problems associated with any existing plant facilities.
- Electrical and building code review of existing, unrelated processes to identify areas where the facilities do not meet current codes.
- Pre-purchase of selected equipment.
- Location/verification of existing below ground utilities.
- 3-D renderings and services to support local public interest efforts.
- Preparation, submittal, negotiations and comment responses and changes associated with obtaining regulatory agency permits. Drawings and specifications to be provided as part of the contract documents will be provided to the Consultant upon request for modification or annotation by the Consultant for use in permit application packages.
- Site work, including road repaving, in areas outside those needed for the new facilities.
- Additional topographic survey. Existing survey information will be used for the design of the new and modified facilities.
- Additional geotechnical borings or laboratory tests. The foundation design of the new facilities will be based on boring and site-specific ground motion site response analysis in 2013.

#### **EXHIBIT B**

Estimated Level of Effort
McMinnville WRF Solids Treatment Capacity Improments Project
Final Design Phase

				T	T	1	Sub	consultants
		Jaco	bbs Labor	Mileage and	Total Jacobs Labor	Total Sub Hours	Total	Sub Labor
		Hours	\$	Additional				
1.0	Project Management		\$11,772	\$500	\$12,272		\$	-
	Task Hours	66				0		
2.0	Final Design		\$996,962	\$8,000	\$1,004,962		\$	35,24
2.1	60% Design	2486				0		
2.2	90% Design	2794				0		
2.3	100% Design	1407				0		
2.4	Site Visits	32				0		
	Task Hours	6719				208		
3.0	Bid Services		\$9,089	\$500	\$9,589			
	Task Hours	64				0		
4.0	Geotechnical		\$33,129	\$0	\$33,129			
	Task Hours	201				0		
5.0	Quality Management		\$88,252	\$0	\$88,252		\$	-
	Task Hours	324				0		
6.0	Cost Estimate		\$37,904	\$0	\$37,904		\$	-
	Task Hours	150				0		
7.0	Additional Services		\$11,055	\$0	\$11,055		\$	-
	Task Hours	48				0		
	TOTAL	7572	\$1,188,163	\$9,000	\$1,197,163	208	\$	35,24
	Cost			I	ı	1		
	Hours							
					\$1,197,163		\$	35,24
					. , . ,	TOTAL	\$	1,232,40

		J Koch	J Koch	D Oerke Process (Solids)	B Reistad Process (Solids)	T Greeley Process	M Heidari Geotech	L Bhaumik	K Galardi Odor	T Cotten	A Firth	E Gray	M Hoffmann	S Chandler Civil/Lands cape		S Baar Mech	M Winnett	G Erb	M Valenzuela	T Jones	R Cowan	G McFarland	B Gyaourova		J Hostetler		C McCoy	J Boss	L Wood	G Bates / Hurt Project Controls	T Riddle
1.0	Project Management	\$ 6,909	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,86	
	Task Hours	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	0
2.0	Final Design	\$ 70,014	\$ 62,184	\$ 5,900	\$ 19,742	\$ 81,690	\$ 9,042	\$ -	\$ 57,694	\$ -	\$ 68,349	\$ 16,781	\$ 14,468	\$ 62,042	\$ 24,589	\$ 42,987	\$ 39,481	\$ 28,537	\$ 38,056	\$ -	\$ 49,341	\$ 94,533	\$ 35,628	\$ 36,043	\$ 23,680	\$ 32,951	\$ 23,515	\$ 20,799	\$ -	\$ .	- \$ 38,914
2.1	60% Design	116	110	10	33	183	20		103	0	101	45	40	147	86	103	123	43	94	0	100	290	146	100	44	125	91	80	0	0	153
2.2	90% Design	126	120	10	33	183	16	0	103	0	121	54	40	170	86	123	123	43	163	0	120	290	169	120	53	125	160	80	0	0	163
2.3	100% Design	46	40	0	20	100	12	0	50	0	60	26	0	82	45	103	80	30	68	0	60	180	82	60	26	58	68	40	0	0	71
2.4	Site Visits	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Task Hours	304	270	20	86	466	48	0	256	0	282	125	80	399	217	345	326	116	325	0	280	760	397	280	123	308	319	200	0	0	387
3.0	Bid Services	\$ 3,685	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,990	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	- \$ 2,413
	Task Hours	16	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
4.0	Geotechnical	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,433	\$ 11,002	\$ -	\$ 8,487	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	- \$ 1,207
	Task Hours	0	0	0	0	0	66	93	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
5.0	Quality Management	\$ 2,764	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 84,282	2 \$ -	\$ 1,207
	Task Hours	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300	0	12
6.0	Cost Estimate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 37,904	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Task Hours	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	0	0	0	0	0	0	0	0	0	0	0
7.0	Additional Services	\$ 11,055	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	- \$ -
	Task Hours	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL																														
	Cost	\$ 90,742	\$ 62,184	\$ 5,900	\$ 19,742	\$ 81,690	\$ 21,475	\$ 11,002	\$ 57,694	\$ 8,487	\$ 68,349	\$ 16,781	\$ 14,468	\$ 62,042	\$ 24,589	\$ 42,987	\$ 39,481	\$ 28,537	\$ 38,056	\$ 37,904	\$ 49,341	\$ 94,533	\$ 35,628	\$ 36,043	\$ 23,680	\$ 32,951	\$ 23,515	\$ 20,799	\$ 84,282	2 \$ 4,86	53 \$ 41,327
	Hours	410	270	20	86	466	114	93	256	30	282	125	80	399	217	369	326	116	325	150	280	760	397	280	123	308	319	200	300	36	435