



1 attached hereto and incorporated by this reference. All references to Exhibit C throughout the  
2 entirety of the AGREEMENT shall be deemed to include to Exhibit C-1.

3 3. CONSULTANT's PROJECT team (Exhibit B) is hereby amended to include Exhibit  
4 B-1, attached hereto and incorporated by this reference. All references to Exhibit B throughout the  
5 entirety of the AGREEMENT shall be deemed to include Exhibit B-1.

6 4. CONSULTANT's Fee Schedule (Exhibit E) is hereby amended to include Exhibit E-  
7 1, attached hereto and incorporated by this reference. All references to Exhibit E throughout the  
8 entirety of the AGREEMENT shall be deemed to include Exhibit E-1.

9 5. All other provisions, terms, covenants, conditions and provisions contained in the  
10 AGREEMENT are unaffected by this First AMENDMENT to the AGREEMENT and shall remain in  
11 full force and effect.

12 6. The parties agree that this AMENDMENT may be executed by electronic signature  
13 as provided in this section. An "electronic signature" means any symbol or process intended by an  
14 individual signing this AMENDMENT to represent their signature, including but not limited to (1) a  
15 digital signature; (2) a faxed version of an original handwritten signature; or (3) an electronically  
16 scanned and transmitted (for example by PDF document) of a handwritten signature. Each  
17 electronic signature affixed or attached to this AMENDMENT (1) is deemed equivalent to a valid  
18 original handwritten signature of the person signing this AMENDMENT for all purposes, including  
19 but not limited to evidentiary proof in any administrative or judicial proceeding, and (2) has the  
20 same force and effect as the valid original handwritten signature of that person. The provisions of  
21 this section satisfy the requirements of Civil Code section 1633.5, subdivision (b), in the Uniform  
22 Electronic Transaction Act (Civil Code, Division 3, Part 2, Title 2.5, beginning with section 1633.1).  
23 Each party using a digital signature represents that it has undertaken and satisfied the  
24 requirements of Government Code section 16.5, subdivision (a), paragraphs (1) through (5), and  
25 agrees that each other party may rely upon that representation. This AMENDMENT is not  
26 conditioned upon the parties conducting the transactions under it by electronic means and either  
27 party may sign this AMENDMENT with an original handwritten signature.

28

1 IN WITNESS WHEREOF, the parties have executed this First Amendment to Agreement  
2 on the date first set forth above.

3  
4 **GEO-LOGIC ASSOCIATES, INC.**

5 Nicole Sweetland for  
6 Gary Lass, President  
7 2777 East Guasti Road  
8 Ontario, CA 91761

**COUNTY OF FRESNO**

Steve Brandau  
Steve Brandau, Chairman of the  
Board of Supervisors of the County of Fresno

9 **ATTEST:**  
10 Bernice E. Seidel  
11 Clerk of the Board of Supervisors  
12 County of Fresno, State of California

13 BY: Jesse Cough  
14 Deputy

15 **FOR ACCOUNTING USE ONLY**

16 Org No 9026  
17 Account No. 7295  
18 Fund No. 0700  
19 Subclass No. 15000  
20  
21  
22  
23  
24  
25  
26  
27  
28

## EXHIBIT B-1

**Geo-Logic Associates Proposed Staff**  
**American Avenue Disposal Site, Phase I Waste Relocation**  
**County of Fresno, Agreement No. 16-445**

Name/Role	Year's Experience	Professional Registrations	Education	Billing Level	Hourly Billing Rate
Gary Lass, Principal-in-Charge	40+	PG CA #3653 CEG CA #1093 GHG CA #18	M.S., Geochemistry - CA State University, Los Angeles B.S., Geology - CA State University, Los Angeles	PRINCIPAL II	\$265
Frank (Ben) Dell-Era, Construction Manager	27	NICET Level II, GRI 40 HR HAZWOPER ACI Level I Concrete, Nuclear Gauge		TECHNICIAN IV	\$140
Jacob Russell, Supervising Engineer	21	PE CA #64512	B.S., Environmental Resource Engineering - Humboldt State University	SUPERVISING PROFESSIONAL	\$210
Sean Flores, Project Engineer	18	PE CA #39161 PG CA #9422	B.S., Geological Engineering, University of Nevada, Reno	PROJECT PROFESSIONAL II	\$163
Stephanie Hamilton, Project Engineer	11	PE CA #47957	B.S., Civil Engineering, San Jose State University	PROJECT PROFESSIONAL II	\$163
Aaron Ogorzalek, Project Geotechnical Engineer	17	PE CA #71852	M.S., Geotechnical/ Geoenvironmental Engineering, Colorado State University B.S., Civil Engineering, University of Missouri-Rolla	PROJECT PROFESSIONAL III	\$184
Bryan Fritzler, Principal Technician	29	PE CA #55568	B.S., Civil Engineering, Colorado State University	PRINCIPAL TECHNICIAN	\$165
Neven Matasovic, Sr. Reviewer, Seismic Characterization	32	PE CA #55861 GE CA #2557	Ph.D., Geotechnical Engineering, University of California at Los Angeles M.S., Geotechnical Engineering, University of Zagreb, Croatia B.S., Civil Engineering, University of Croatia	PRINCIPAL PROFESSIONAL I	\$242
Gabe Iltis, Geotechnical	11	EIT OR #74401EIT	Ph.D., Environmental Engineering - Oregon	PROJECT PROFESSIONAL II	\$163

Name/Role	Year's Experience	Professional Registrations	Education	Billing Level	Hourly Billing Rate
Engineer		40 HR HAZWOPER	State University M.S., Civil Engineering, Colorado State University B.S., Environmental Engineering, Oregon State University		
Courtney Barrett, Sr. Project Engineer	15	PE CA #78076	B.S., Civil and Environmental, University of California, Davis	SENIOR PROFESSIONAL I	\$196
Ryan Berquist, Sr. Engineer/Designer	10	PE CA #77538	B.S., Mechanical Engineering, University of California, Santa Barbara	PROJECT PROFESSIONAL I	\$142
Noah Campbell, Stormwater Designer	20	PE CA #64963	B.S., Environmental Resource Engineering, Humboldt State University	SENIOR PROFESSIONAL I	\$196
Monte Christie, Sr. Geotechnical Engineer	26	PE CA #58866 GE CA #2630	M.S., Geotechnical Engineering, University of California, Berkeley B.S., Civil Engineering, University of California, Berkeley B.A., Environmental Studies, University of California, Santa Cruz	SUPERVISING PROFESSIONAL	\$210
John Hower, Sr. Reviewer, Project Manager	30	PG CA #6524 CEG CA #2142	B.S., Geology, California State University, Long Beach	PRINCIPAL I	\$242
Jordan Graham, Staff Engineer	3	PE CA #91799 PE UT #11741591 40 HR HAZWOPER Nuclear Gauge	B.S., Civil Engineering, University of California, Davis	STAFF PROFESSIONAL II	\$115
Nathan Droivold, Staff Engineer	2	EIT CA #158685 40 HR HAZWOPER Nuclear Gauge	B.S., Civil Engineering, Loyola Marymount University	STAFF PROFESSIONAL III	\$126
Vittoria Zucchelli, Staff Engineer	4	EIT	B.S., Civil Engineering, University of Florida, Tampa	STAFF PROFESSIONAL II	\$115
Caleb Miller, Sr. Project Engineer	10	PE California #77424 PE Arizona 11973	B.S., Civil Engineering, California State University, Chico	SENIOR PROFESSIONAL I	\$196
Richard Mitchell, Sr.	37	PG CA #4390	M.S., Geotechnical Engineering / Engineering	PRINCIPAL PROFESSIONAL	\$242

Name/Role	Year's Experience	Professional Registrations	Education	Billing Level	Hourly Billing Rate
Reviewer/Regulatory Liaison		CEG CA #1371	Geology, University of California, Berkeley B.S. Geology, California State University, Chico		
Erik Olhoffer, Sr. CQA Monitor	24	40 HR HAZWOPER NICET Cert Level I Nuclear Gauge ACI Concrete – Level I #561454521		TECHNICIAN II	\$98
Jason Heffner, Project Geotechnical Engineer	17	PE CA #71122 PE NV #22563 PE OR #80232	B.S., Geological Engineering - University of NV, Reno	PROJECT PROFESSIONAL I	\$142
Robert Valceschini, ET Cover Specialist	32	PE CA # 50522	M.S., Civil & Geotechnical Engineering, University of Nevada, Reno B.S., Geological Engineering, Mackay School of Mines, University of Nevada, Reno	PRINCIPAL PROFESSIONAL	\$242
Francesca Senes, Staff Geologist	1		B.S., Earth Science - Northeastern Illinois University M.S., Geology - California State University, San Jose	STAFF PROFESSIONAL II	\$115
Ryan Day, Staff Engineer	1	EIT 40-HR HAZWOPER	B.S., Civil Engineering – California State University, Chico	STAFF PROFESSIONAL II	\$115
Alejandro, Valadez, Staff Engineer	2	40-HR HAZWOPER MSHA Nuclear Gauge	B.S., Civil Engineering – California State University, Chico	STAFF PROFESSIONAL II	\$115
Matthew Needs, Staff Engineer	2	GIT 40-HR HAZWOPER Nuclear Gauge	B.S., Geological Engineering – University of Nevada, Reno	STAFF PROFESSIONAL II	\$115
David Harich, PE, Sr. Reviewer	30+	PE CA # 53287	MBA, University of California, San Diego BS, Civil Engineering, California State Polytechnic University, Pomona	PRINCIPAL PROFESSIONAL I	\$242

Newly added staff is highlighted

Staff removed: Michael Yacyshyn (Principal I), David Romo (Sr. Professional I), Nathan Droivold (Staff Professional III), Tyler Kurtz (Staff Professional II)

Removed staff may still appear on future invoices for work completed, but not yet billed

## EDUCATION

BS, Civil Engineering, 2016  
University of South Florida

## PROFESSIONAL REGISTRATIONS

Engineer-in-Training,  
Georgia, No. EIT027010

## CERTIFICATIONS

40-HR HAZOPER, 2016

## PROFESSIONAL AFFILIATIONS

Solid Waste Association of  
North America, 2016-2020

Ms. Zucchelli is a Staff Engineer in Geo-Logic who is experienced in environmental and solid waste engineering experience with a specialty in landfill gas (LFG) projects involving system design, construction, and regulatory compliance. Her experience includes Title V Reporting, Title V Permit Renewal, New Source Performance Standards (NSPS) Regulations, Gas Collection and Control System (GCCS) design, Tier 2 landfill gas sampling, and construction quality assurance (CQA). Examples of her project experience include the following:

### **GCCS) Expansion Designs and Construction Engineering Services, RS and Advanced Disposal Services (ADS), Various Locations (Listed Below)**

- Evaluated existing LFG collection coverages based on radiuses of influence for LFG extraction wells, surface emission exceedance locations, and recommendations from the OM&M personnel to design LFG extraction wells to maintain or increase gas collection coverages in areas of the landfill.
- Evaluated liquid level and depth to bottom measurements and wellhead monitoring data for existing LFG extraction wells to determine whether a well would need to be replaced/redrilled or would require a pump due to regulatory or operational concerns.
- Designed LFG extraction well depths and materials specifications based on surveyed ground surface elevations and landfill top of protective cover, subgrade, or top of clay layer elevations.
- Designed LFG collection (header/lateral), air supply, and liquid conveyance piping in order to meet and improve landfill gas operational needs and capabilities.
- Evaluated predicted LFG collection flows and condensate generation to size and evaluate condensate management systems.
- Provided cost estimates to be able to keep clients informed based on budgetary requirements.
- Assessed OM&M and site specific needs and recommendations to design GCCS components that were more durable and sustainable.
- Reviewed shop drawings and specifications provided by construction contractors to meet the requirements and intentions of the designs.
- Provided construction management services to provide guidance on the design specifications and intentions and troubleshoot design/field issues that occurred during construction with contractors and CQA personnel.
- Projects included (Client, Project Name, Location):
  - ADS, Cedar Hill Landfill, GCCS Improvements, Ragland, Alabama
  - ADS, Eagle Point Landfill, GCCS Design, Ball Ground, Georgia
  - ADS, Eagle Point Landfill, Q1-Q4 GCCS Design, Ball Ground, Georgia

- ADS, Eagle Point Landfill, GCCS Segregation, 18-Inch Header, Flare Relocation, 36-Inch Header, Lift Station and Dual-Contained Force-main Design, Ball Ground, Georgia
- ADS, East Baton Rouge Parish North Landfill, GCCS Design, Baton Rouge, Louisiana
- ADS, Evergreen Landfill, GCCS Improvements, Valdosta, Georgia
- RS, Hickory Ridge Landfill, GCCS Design and Construction Engineering Services, Conley, Georgia
- ADS, Star Ridge Landfill, GCCS Improvements, Moody, Alabama
- ADS, Star Ridge Landfill, GCCS Design and Flare Installation, Moody, Alabama
- ADS, Stone's Throw Landfill, GCCS Improvements, Moody, Alabama
- ADS, Wolf Creek Landfill, GCCS Design, Dry Branch, Georgia
- ADS, Wolf Creek Landfill, GCCS Improvements, Dry Branch, Georgia
- ADS, Wolf Creek Landfill, GCCS Design and Construction Engineering Services, Dry Branch, Georgia
- RS, Oak Grove Landfill GCCS Design, Winder, Georgia
- RS, Oak Grove Landfill, GCCS Design and Construction Engineering Services, Winder, Georgia
- RS, Pine Ridge Landfill, GCCS Design, Griffin, Georgia
- RS, Pine Ridge Landfill Dewatering System Design, Griffin, Georgia
- RS, Pineview Landfill, GCCS Design, Dora, Alabama
- RS, Pineview Landfill, GCCS Design and Construction Engineering Services, Dora, Alabama
- RS, Richland Creek Landfill, GCCS Design, Buford, Georgia
- RS, Richland Creek Landfill, GCCS Design and Construction Engineering Services, Buford, Georgia

## **Five-Year GCCS Phasing Plans, RS, Various Sites**

- Prepared GCCS phasing plan drawing sets for future conditions of landfills based on projected landfill waste filling, landfill gas flow rates, and liquids removal rates. Drawings included projected LFG extraction wells, gas collection, air supply, and liquid conveyance piping, abandonments, and other capital expenditures that would be required to meet regulatory and operational requirements.
- Prepared material and engineering cost estimations to provide to clients to allow them to evaluate their budgetary needs for particular years and to project future landfill gas construction project needs.

Sites included:

- RS, Oak Grove Landfill, Winder, Georgia
- RS, Pine Ridge Landfill, Griffin, Georgia
- RS, Pineview Landfill, Dora, Alabama
- RS, Richland Creek Landfill, Buford, Georgia

## **Publications and Presentations**

Zucchelli, V. 2019. Vertical Extraction Wells: From Past to Present. Presented at Alabama + Georgia Joint Spring 2019 SWANA Conference. Sponsored by SCS Engineers. April 2, 2019.



# Ryan Day, EIT

Staff Engineer



---

## EDUCATION

Bachelor of Science, Civil Engineering, 2020  
California State University, Chico

Mr. Day is a recent graduate in Civil Engineering from Chico State University in Chico, California. While attending the University, he interned for the City of Walnut Creek, California. While there, he worked for both the traffic and capital improvement disisions, where he utilized his AutoCAD Civil 3D skills and provided roadway design, traffic analysis, drainage engineering, and other tasks.

---

## CERTIFICATIONS

Engineer-in-Training,  
CA

40-Hr HAZWOPER

### **Kiefer Landfill Module 4, Phase 1, Sacramento County, Sacramento, California**

Provided engineering and CAD support during the construction phase of the project. Prepared drain pipe CAD drawings for seep locations found during contruction. Reviewed specifications to assure testing compliance.

---

## PROFESSIONAL TRAINING

AutoCAD and Civil3D

### **Ostrom Road Compost Pad, Recology Ostrom Road, Wheatland, California**

Provided CQA support for the compost pad construction. Performed on-site testing of cement treated base.

### **Ash Monofill Stage O, Regional Disposal Company, Roosevelt, Washington**

Provided engineering and CAD support for the design of the Stage O area of the Ash Monofill. Prepared CAD drawings and quantity calculations.

### **Circle Green Compost Facility, Phelan Pinon Hills Community Services District, San Bernardino County, California**

Provided CAD and engineering support for the design of the Circle Green Compost Facility. Prepared CAD drawings and prepared the technical report.

### **Oliveira Compost Facility, Oliveira Enterprises Inc., Byron, California**

Provided CAD and engineering support for the design of the Oliveira Compost Facility. Prepared CAD drawings and prepared the technical report.

### **American Avenue Disposal Site, County of Fresno, Kerman, California**

Provided CAD and engineering support for the clean closure design of the American Avenue Disposal Site. Prepared CAD drawings and quantity calculations.

# Alejandro Valadez

Staff Engineer



Mr. Valadez is a graduate of California State University, Chico, and holds a Bachelor's Degree in Civil Engineering. He has performed a variety of engineering and field tasks since he was hired by GLA shortly after graduation. He provides design support in AutoCAD 3D software and assists with a variety of engineering tasks such as quantity calculations and grading plans. He has experience providing engineering support for construction projects, construction quality assurance, and has spent time performing laboratory tests in GLA's geotechnical laboratory. He supervised workshops as a STEM volunteer (Science, Technology, Engineering, and Mathematics), and was a part of the MAES Leadership Academy. Mr. Valadez is bilingual in English and Spanish.

## EDUCATION

B.S., Civil Engineering, 2019  
California State Univ., Chico

## PROFESSIONAL AFFILIATIONS

Latinos in Technical Engineers  
(LTC)

MAES Latinos in Science and  
Engineering

National Society of Leadership  
and Success (NSLS)

## CERTIFICATIONS

OSHA Hazardous Waste  
Operations and Emergency  
Response Training (40-Hour)

U.S. Department of Labor  
Mine Safety and Health  
Administration (24-Hour)

Nuclear Gauge Density Testing  
(ASTM - 6938)

### **American Avenue Disposal Site Phase I Clean Closure, Fresno, California**

Provided engineering and CAD support for the design of Phase 1 Waste Relocation. Prepared PS&E design documents including detail design drawings and the waste relocation work plan and figures for the Phase 1 Waste Relocation.

### **Johnson Canyon Landfill Module VII Expansion and Compost Pad, Gonzales, California**

Provided engineering and CAD support for subgrade and fill grading plans including earthwork calculations for Master Plan. Grading included subgrade, fill waste, access roads, sumps, leachate collection pipes, ditches, and benches. Also provided support for a leak detection survey by the water puddle method in accordance with ASTM D7002.

### **Kiefer Landfill, Sacramento, California**

Provided engineering support for a leak detection survey on slopes by the water puddle method in accordance to ASTM D7002.

### **Casmalia Superfund Site, Santa Barbara, California**

Provided engineering and CAD support for the design of Casmalia Superfund Site Central Drainage Area Cap. Provided grading plans by preparing plan drawings using as-builts.

### **Florin Perkins Public Disposal Site, Sacramento, California**

Provided support for a hydrologic analysis for this closed site. Performed hydrology calculations utilizing the TR-55 method.

### **East Otay Mesa Landfill Facility, San Diego County, California**

Provided engineering and CAD support for the conceptual design of East Otay Mesa Recycling Collection Center and Facility Landfill. Prepared a drawing set for a Report of Compost Site Information.

# Alejandro Valadez

Staff Engineer

---

## **Washington County Landfill Phase 4D Conceptual Design, Washington City, Utah**

Prepared design drawings for Phase 4D conceptual design at the landfill.

## **Yolo County Landfill, Woodland, California**

Utilized Civil 3D to perform volume analysis between topographic and proposed grading surfaces to provide options for reducing soil volume in a compost pad.

## **Recology Ostrom Organics Compost Facility, Yuba County, California**

Performed nuclear gauge density testing for soil and gravel compaction as a part-time CQA on-site.

## **Buttonwillow Landfill, Buttonwillow, California**

Provided support in vadose zone monitoring and performed continuity testing.

## **Neal Road Landfill, Paradise, California**

Provided engineering support for a leak detection survey by the dipole method in accordance to ASTM D7007-16.

## **South Campus Neighborhood Project, The City of Chico, Chico, CA**

Produced a proposal with a final report of a safety improvement plan for existing road conditions to satisfy Caltrans Standards. Responsibilities included:

- Surveying existing street conditions.
- Assisting in traffic and speed counts.
- Using AutoCAD to create cross sections and details.
- Estimating project budget.
- Cooperating with professionals and professors to find better solutions.
- Preparing presentation for professionals and professors.
- Writing reports.

Project ultimately proposed ideas for the City of Chico to improve the safety of existing streets located near school campus.

# Matthew Needs, QISP

Staff Engineer



## EDUCATION

B.S. Geological Engineering,  
2019, University of Nevada,  
Reno

## PROFESSIONAL Training

AutoCad and Civil 3D  
gINT – Geotechnical Software

## CERTIFICATIONS

Qualified Industrial  
Stormwater Practitioner  
(QISP) #01775  
40-Hr HAZWOPER  
CalGeo Loss Prevention

Mr. Needs is a graduate of University of Nevada-Reno who began his career with Geo-Logic Associates in 2017 as an intern. He has now transitioned into a Staff Engineer role in GLA's Granite Bay, California office. He has worked in the design of solid waste landfills, construction quality control of landfills, conducting groundwater sampling and other field work, as well as conducting ASTM standard geotechnical laboratory tests. He started his geotechnical engineering career providing laboratory and design support for open pit mining operations in Nevada. He has experience with liner system applications including HDPE, GCL, clay, admix soils, geonet, geotextile, and granular drainage materials. In addition to CQA monitoring of landfill construction, Mr. Needs assists with the creation of design and detail drawings for solid waste and composting facilities.

### **Module 4 Excavation CQA, Sacramento County, Kiefer Landfill**

Matthew performed CQA services for the 24 million cubic yard excavation at Kiefer Landfill and provided real-time geotechnical recommendations to aid the contractor in selectively stockpiling excavation soils for future purposes. He also provided CQA services for a sliver fill located within the cell and conducted associated compaction and permeability testing, as well as ensured that the fill and stockpiles met project specifications.

### **Module 5/13 Separation Liner CQA, Placer County, Western Regional Landfill**

Mr. Needs provided CQA services during subgrade preparation for the installation of the Module 5/13 liner system. This included reviewing project submittals, earthworks testing and sampling, working with the contractor to confirm existing conditions, as well as maintaining a testing catalog that met the requirements of the project specific specifications.

### **Phase XX Liner Construction CQA, Republic Services, Ox Mountain Landfill**

Mr. Needs provided CQA services for the entirety of the Phase XX construction at Ox Mountain Landfill. Responsibilities included monitoring, testing, and sampling during the following activities; rock excavation and associated earthfill, soil mixture during production of low permeability soil from an on-site pug mill, earthworks construction, geosynthetics installation, upgrade and installation of stormwater control systems, and collection piping installation.

### **Phase 4 Liquid Mitigation CQA, Republic Services, Newby Island Landfill**

As part of the continuing Liquid Mitigation projects at Newby Island Landfill Matthew provided CQA services for the deep soil mixture processes during Phase 4; tasks included logging core of the intermixed concrete and waste cylinders to ensure they would comply with project specifications for strength testing.

## **Ostrom Road Landfill Compost Pad Permeability, Recology, Ostrom Road Landfill**

CQA monitor for the construction of the Ostrom Road Compost Pad, Matthew provided testing services and documentation during construction of subgrade and two retention ponds.

## **Casmalia CDA Cap and Area 3 Closure Design, Casmalia Steering Committee, Casmalia Hazardous Waste Landfill**

Mr. Needs provided engineering and CAD support for the design of the Casmalia CDA Cap and Area 3 Closure.

## **1F-2F Cell Design, Republic Services, Wasatch Landfill**

Prepared design drawings for Phase 1F/2F cell expansion at the landfill. Utilized AutoCad Civil 3D to develop cell grading, perform quantity take-offs and volume analyses between topographic surfaces and develop detail drawings. Mr. Needs also assisted in developing project specifications for the project.

## **Ariel Budget Models, Republic Services**

Mr. Needs assisted in creating aerial budget models for a multitude of landfill operations. He utilized AutoCad Civil 3D to develop surfaces and determine quantities.

## **Preliminary Closure/Post-Closure Maintenance Plan (PCPCMP), Waste Management, Asuza Landfill**

Mr. Needs created landfill surfaces and determined quantities between phased development and final closure grades in order to develop life of landfill estimates.

## **Regional Sanitary SSBS and DLDS WDR Compliance, Sacramento County, Sacramento Regional Wastewater Treatment Plant**

Mr. Needs installed and replaced Matric Water Potential sensors at the Sacramento Regional Wastewater Treatment plant as part of GLA's involvement with confirming that the site is complying with site-specific WDRs.

## **East Otay Mesa Landfill JTD Groundwater Sampling, East Otay Mesa Landfill and Recycling, East Otay Mesa**

In support of the development of the site JTD, Mr. Needs assisted in the benchmark groundwater sampling for the site.

## **Additional Professional Training**

OSHA Hazardous Waste Operations and Emergency Response Training (40-Hour), CalGeo Loss Prevention Training, First Aid and CPR Certified.

# David Harich, PE

Principal Engineer



## EDUCATION

MBA, University of California, San Diego, 1999

BS, Civil Engineering, California State Polytechnic University, Pomona, 1990

## PROFESSIONAL REGISTRATIONS

Professional Engineer, California, No. C53287

## PROFESSIONAL AFFILIATIONS

General A & C57 contractor's license

Waste water collections operator - CWEA

Water treatment & distribution operator - CDPH

Member United States Environmental Training Institute

Won 1987 CIWMB award for "Best Large Volume Recycler at a Landfill or Transfer Station"

Director for Temescal Valley Water District

Mr. Harich has 30 years of experience of domestic and international experience in solid waste disposal operations, engineering, construction management and groundwater development. Results-oriented leader with excellent skills in negotiating, communicating, and developing cost effective solutions for engineering projects and disposal operations. Bilingual with many years' experience in public speaking and presentations with state and local governments.

### **Waste Management Inc., Corona, California**

As Senior District Manager from 2014 to 2020, Mr. Harich managed the El Sobrante Landfill with over \$100 million in annual revenue, 70,000 tons per week of Municipal Solid Waste, and general oversight of 45 employees. Provide leadership and cross-functional management for all departments including Site Operations, Engineering, Landfill Gas Operations, Environmental Compliance, Public Relations, Fleet Maintenance and Wildlife Habitat Conservation. Oversee pricing, cost controls, and regulatory compliance.

#### **Key Achievements:**

- Developed one of the largest solid waste landfills in the country and grew revenue from \$60 million to \$103 million in five years.
- Introduced new surveying tools to improve operational efficiency.
- Negotiated Collective Bargaining Agreement with Union.
- Renegotiated operating permit with County Lead Agency.
- Developed and launched Southern California Heavy Equipment Rodeo competition.

### **Republic Services, San Antonio, Texas**

As the Environmental Manager from 2013 to 2014, Mr. Harich managed the Engineering and Environmental Compliance for six regional South Texas landfills. Responsible for capital budget, new construction of landfill cells and landfill gas collection systems. Worked with Texas Commission on Environmental Quality (TCEQ) for permitting oilfield waste.

#### **Key Achievements:**

- Developed new method for on-site handling of Oil Exploration and Production waste saving millions in landfill airspace consumption.
- Managed new landfill cell construction capital budget and construction quality control at several landfills.
- Collaborated on landfill closure design and remediation at two landfills.

### **Harich Enterprises Company, Inc. Running Springs, California**

As the President and CEO from 1999 to 2013, Mr. Harich created his own well drilling construction company. Bid on public works projects for municipal supply and agricultural production wells. Managed payables and receivables. Created asset allocation strategies. Designed pump development and aquifer yield programs. Drilled monitoring wells on several southern California

landfills. Served one year as General Manager for Arrowbear Park County Water District.

**Key Achievements:**

- Created company and grew revenue from \$0 to \$6million in ten years.
- Completed projects for residential commercial water supply.
- Completed temporary water supply project for \$2 billion expansion at 29 Palms Marine Corps. Base.

**Waste Management Inc., Latin America**

As the Latin American Landfill Manager from 1994 – 1999, he managed four solid waste landfills for Waste Management in Latin America. Developed team of people and trained them in proper landfilling techniques including cut and cover, compaction, landfill gas collection, leachate collection, and storm water collection. Developed new landfill in Acapulco, Mexico from conception. Conducted business negotiations with local and state governments and regulators. Created and implemented budgets for all sites.

**Key Achievements:**

- Closed several burn dumps as requested by local governments.
- Designed Tijuana Landfill and trained site personnel on operations.
- Gave presentations to State and Local governments on proper solid waste management.
- Received award from United States Environmental Training Institute.

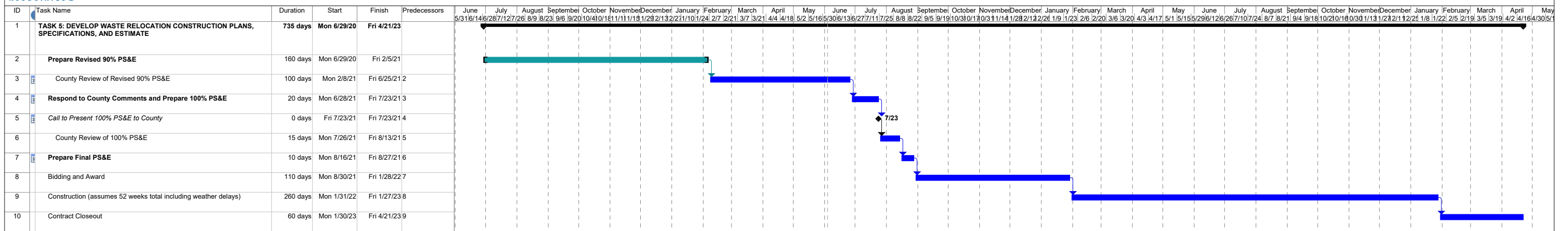
**Bryan A. Stirrat and Associates, Diamond Bar, California**

As Project Engineer from 1990 – 1994, he developed and designed new cell construction, GCCS systems, LCRC systems, composite liner systems, and closure systems. Performed field engineering tasks and construction management on existing landfills. Developed new technique for preparing cut slopes for geotextile and HDPE liners systems.

# EXHIBIT C-1



American Avenue Disposal Site  
Phase I Waste Relocation



Project: Draft AADS Schedule Task 5\_7\_R2\_060  
Date: Fri 6/4/21

Task		Summary		External Milestone		Manual Task		Manual Summary		External Tasks		Deadline	
Split		Project Summary		Inactive Milestone		Duration-only		Start-only		External Milestone			
Milestone		External Tasks		Inactive Summary		Manual Summary Rollup				Progress			





**FRESNO COUNTY 2019 & 2020 FEE SCHEDULE**

<b><u>PROFESSIONAL STAFF</u></b>	<b><u>UNIT RATE</u></b>
Staff Professional I .....	\$105.00/Hour
Staff Professional II .....	115.00/Hour
Staff Professional III .....	126.00/Hour
Project Professional I .....	142.00/Hour
Project Professional II .....	163.00/Hour
Project Professional III .....	184.00/Hour
Senior Professional I .....	196.00/Hour
Supervising Professional/Senior Professional II .....	210.00/Hour
Principal Professional I .....	242.00/Hour
Principal Professional II .....	265.00/Hour
Court Appearance (Expert Witness, Deposition, etc.; four-hour minimum) .....	2 x HourlyRate

<b><u>FIELD/LABORATORY STAFF</u></b>	
Technician I .....	84.00/Hour
Technician II .....	94.00/Hour
Technician III (or Minimum Prevailing Wage) .....	105.00/Hour
Technician IV .....	140.00/Hour
Laboratory Manager .....	155.00/Hour
Principal Technician .....	165.00/Hour

<b><u>CADD/GIS</u></b>	
CADD/GIS/Database Manager I .....	100.00/Hour
CADD/GIS/Database Manager II .....	115.00/Hour
CADD Designer .....	126.00/Hour
GIS Specialist .....	142.00/Hour

<b><u>SUPPORT STAFF</u></b>	
Administrative Assistant I .....	80.00/Hour
Administrative Assistant II .....	95.00/Hour
Technical Editor .....	100.00/Hour
Senior Technical Editor .....	126.00/Hour

\*Overtime Premium is 35% of PERSONNEL CHARGE

<b><u>EQUIPMENT CHARGES</u></b>	
BAT Permeameter .....	200.00/Day
Compaction Testing Equipment & Supplies .....	50.00/Day
Peel & Shear Strength Apparatus (FML Seams) .....	900.00/Month
Portable Laboratory (8' x 32' trailer) with equipment .....	1,200/Month
Portable Laboratory (mobilization / demobilization) .....	1,500.00
ReMi/Refraction Seismograph .....	600.00/Day
Sealed Single Ring Infiltrometer (SSRI) .....	200.00/Day or 750.00/Month
Sealed Double Ring Infiltrometer (SDRI) .....	Call for Quote
Slope Inclinator .....	250.00/Day

<b><u>EXPENSES</u></b>	
Vehicle Use for Field Services .....	14.00/Hour or 320.00/week
Soil Sampling Equipment & Drilling Supplies .....	5.00/Hour
Groundwater Sampling Equipment and Supplies .....	15.00/Hour
Per Diem .....	Lesser of (Cost +15%) or (Local Government Rate)
Outside Services (Consultants, Surveys, Chemical lab Tests, etc.) .....	Cost + 15%
Reimbursables (Maps, Photos, Permits, Expendable Supplies, etc.) .....	Cost + 15%
Outside Equipment (Drill Rig, Backhoe, Monitoring Equipment, etc.) .....	Cost + 15%

<continued on next page>



**PERMITS, FEES AND BONDS**

The costs of all permits, fees, and performance bonds required by government agencies are to be paid by the Client, unless stated otherwise in an accompanying proposal.

**INSURANCE**

Geo-Logic Associates, Inc. carries workers' compensation, comprehensive general liability and automobile with policy limits normally acceptable to most clients. The cost for this insurance is covered by the fees listed in this schedule. Cost of any special insurance required by the Client, including increases in policy limits, adding additional insured parties and waivers of subrogation, are charged at cost plus 15%. Unless otherwise stated, such charges are in addition to the estimated or maximum charges stated in any accompanying proposal.

**TERMS**

Payment is due upon presentation of invoice and is past due thirty (30) days from invoice date. Past due accounts are subject to a finance charge of one and one-half percent (1-1/2%) per month, or the maximum rate allowed by law.

**PROPOSAL PERIOD**

Unless otherwise stated, a proposal accompanying this schedule is effective for sixty (60) days. If authorization to proceed is not received within this period, Geo-Logic Associates, Inc. reserves the right to renegotiate the fee.

## FRESNO COUNTY 2019 & 2020 FEE SCHEDULE

<u>SOIL TESTING</u>	<u>TEST METHOD</u>	<u>UNIT RATE</u>
Atterberg Limits (LL, PL, and PI).....	D4318 .....	\$150.00/Test
California Bearing Ratio (excluding moisture-density curve) .....	D1883 .....	250.00/Point
Chloride Content .....		50.00/Test
Corrosivity Series (resistivity, pH, sulfate, chloride) .....		170.00/Test
Consolidation Test (without rate data – up to 8 loading increments).....	D2435 .....	150.00/Test
Consolidation Test (single point) .....	D2435 .....	95.00/Test
Consolidation Test Rate Data (per load increment) .....	D2435 .....	60.00/each
Direct Shear Test (at natural moisture) .....	D3080 .....	65.00/Point
Direct Shear Test (saturated – strain rate 0.0084 inch/min.) .....	D3080 .....	75.00/Point
Direct Shear Test (saturated, recycled – strain rate 0.0084 inch/min.)....	D3080 .....	120.00/Point
Direct Shear Test (consolidated drained) .....	D3080 .....	175.00/Point
Direct Shear Test (consolidated drained, residual).....	D3080 .....	200.00/Point
Direct Shear Test (large shear box, 12 x 12) .....	D3080 .....	300.00/Point
Expansion Index Test .....	D4829 .....	125.00/Test
Expansion Index (cement or lime treated sample).....	D4829 .....	175.00/Test
Grain-Size Mechanical Analysis - Sand-Clay, including Hydrometer.....	D422/D6913/D7928 ....	150.00/Test
Grain-Size Mechanical Analysis - Gravel-Clay, including Hydrometer .....	D422/D6913/D7928 ....	200.00/Test
Harvard Miniature Compaction Test .....		250.00/Test
Mechanical Analysis, Percent Passing #200.....	D1140/C117 .....	75.00/Test
Mechanical Analysis - Sand or Gravel (no wash) .....	D422/D6913/C136.....	85.00/Test
Mechanical Analysis - Sand and Gravel .....	D422/D6913/C136.....	155.00/Test
Mechanical Analysis - Sand or Gravel .....	D422/D6913/C136.....	120.00/Test
Mechanical Analysis - Minus 3” to 200 Sieve, Full Sieve .....	D422/D6913/C136.....	155.00/Test
Moisture Content .....	D2216/D4643 .....	16.00/Test
Moisture Density Curve for Compacted Fill (4-inch Mold) .....	D698 .....	150.00/Test
Moisture Density Curve for Compacted Fill (6-inch Mold) .....	D698 .....	175.00/Test
Moisture-Density Curve for Compacted Fill (4-inch Mold).....	D1557 .....	165.00/Test
Moisture-Density Curve – Compacted Fill (6-inch Mold).....	D1557 .....	200.00/Test
Moisture-Density Curve – Lime or Cement Treated (4-inch Mold) .....	D1557 .....	210.00/Test
Moisture-Density Curve – Lime or Cement Treated (6-inch Mold) .....	D1557 .....	250.00/Test
Moisture-Density Single Point .....	T272.....	80.00/Test
Moisture-Density Curve.....	Cal 216.....	175.00/Test
Organic Matter .....	D2974 .....	85.00/Test
Permeability (falling head) .....	CAL220 .....	180.00/Test
Permeability (flexible wall) .....	D5084 .....	300.00/Test
Permeability (rigid wall - constant head pressure, 2” to 8” mold) .....	D2434 .....	300.00/Test
Permeability (rigid wall - constant head pressure, 12” mold) .....	D2434 .....	460.00/Test
Permeability (additional consolidation stresses).....		95.00/stage
Permeability (air) .....	D6539 .....	325.00/Test
Pinhole Dispersion Test; 4 increments (remold sample) .....	D4647 .....	400.00/Test
Resistance Value.....	D2844 .....	210.00/Test
Resistance Value – Lime or Cement Treated .....	D2844/CA301 .....	260.00/Test
Resistivity & pH Test .....	Cal 532 or 643 .....	90.00/Test
Sand Equivalent .....	Caltrans 217/D2419.....	75.00/Test
Soil pH.....	D4972 .....	20.00/Test
Specific Gravity - Fine-Grained Soils .....	D854 .....	75.00/Test
Sulfate Content.....		50.00/Test

<continued on next page>

<b>SOIL TESTING (continued)</b>	<b>TEST METHOD</b>	<b>UNIT RATE</b>
Triaxial Compression Test (CD) .....	D7181 .....	575.00/Point
Triaxial Compression Test (CU with pore pressure).....	D4767 .....	425.00/Point
Triaxial Compression Test (UU).....	D2850 .....	125.00/Test
Triaxial Compression Test [Stage (Progressive) Test; CU] .....	D4767 .....	1,000.00/Set
Unconfined Compression Test (undisturbed sample) .....	D2166 .....	90.00/Test
Unit Dry Weight and Moisture Content (undisturbed sample) .....	D7263/D2216 .....	22.00/Test

All test methods are ASTM unless otherwise noted.

Special sample preparation and laboratory testing not listed above will be charged at applicable personnel rates.

All laboratory test rates are for standard turn-around time and normal reporting procedures. Rush orders will be subject to a 25 percent premium. Manpower requirements or test protocol may preclude the granting of a rush request.

## FRESNO COUNTY 2019 & 2020 FEE SCHEDULE

<u>AGGREGATE TESTING</u>	<u>TEST METHOD</u>	<u>UNIT RATE</u>
Clay Lumps and Friable Particles .....	C142 .....	\$80.00/Test
Crushed Particles (Fractured Faces) .....		95.00/Test
Durability Index – Fine.....	D3744 .....	120.00/Test
Durability Index – Coarse.....	D3744 .....	140.00/Test
Flat and Elongated Particles .....	CRD119, 120 .....	105.00/Test
Injurious Organic Matter .....	C40 .....	60.00/Test
Insoluble Residue in Carbonate Aggregates .....	D3042 .....	275.00/Test
Lightweight Pieces in Aggregate.....	C123 .....	95.00/Test
Los Angeles Abrasion Test (500 revolutions).....	C131 .....	160.00/Test
Los Angeles Abrasion Test (1000 revolutions).....	C535 .....	180.00/Test
Mechanical Analysis - Sand or Gravel (dry sieve) .....	C136 .....	70.00/Test
Mechanical Analysis (wash 200 sieve).....	C117 .....	65.00/Test
Mechanical Analysis (fine with wash 200 sieve).....	C136 .....	100.00/Test
Rapid Determination of Carbonate Content of Rock.....	4373.....	120.00/Test
Sample Crushing .....		85.00/Hour
Sand Equivalent.....	D2419 .....	75.00/Test
Specific Gravity, Bulk, SSD with Absorption .....	C128/C127 .....	110.00 Each
Sulfate Soundness, per sieve size .....	C88 .....	135.00/Test

<u>ROCK TESTING</u>	<u>TEST METHOD</u>	<u>UNIT RATE</u>
Density.....	D7263 .....	\$35.00/Test
Density, Porosity, Specific Gravity, Water Content .....		110.00/Test
Indirect Tensile Strength (Brazilian), Single Break.....	D3967 .....	55.00/Test
Indirect Tensile Strength (Brazilian), 10-15 Breaks.....	D3967 .....	210.00/Test
Point Load Index, Single Break .....	D5731 .....	35.00/Test
Point Load Index, 10-15 Breaks .....	D5731 .....	180.00/Test
Rip-Rap (wet / dry, 10 cycles).....	D5318 .....	1,000.00/Test
Rip-Rap (freeze / thaw, 10 cycles) .....	D5312 .....	800.00/Test
Rip-Rap (specific gravity) .....	D6473 .....	110.00/Test
Rip-Rap Soundness (sodium).....	D5240 .....	400.00/Test
Rock Joint Direct Shear.....		260.00/Point
Rock Joint Direct Shear, additional normal load .....		95.00/Test
Slake Durability.....	D4644 .....	200.00/Test
Triaxial Compression, with Young’s modulus and Poisson’s ratio.....		495.00/point
Uniaxial Strength (peak only; 2.5” maximum).....	D7012 .....	130.00/Test
Uniaxial Strength (with stress-strain curve).....		call for quote
Uniaxial Strength (with stress-strain curve, add modulus and Poisson ratio).....		call for quote
Rock preparation, cutting, and grinding.....		85.00/Hour

All test methods are ASTM unless otherwise noted.

Special sample preparation and laboratory testing not listed above will be charged at applicable personnel rates.

All laboratory test rates are for standard turn-around time and normal reporting procedures. Rush orders will be subject to a 25 percent premium. Manpower requirements or test protocol may preclude the granting of a rush request.



## FRESNO COUNTY 2019 & 2020 FEE SCHEDULE

<u>GEOSYNTHETIC MATERIALS</u>	<u>TEST METHOD</u>	<u>UNIT RATE</u>
<b><i>Seam Coupon Series (thickness, peel, and shear)</i></b>		
Set of 5 each (Quantity 1-10).....	D6392 .....	\$75.00/Test
Set of 5 each (Quantity 10 or more).....	D6392 .....	55.00/Test
Asperity Height.....	GRI GM12 .....	35.00/Test
Liner Puncture Testing up to 350 psi .....		260.00/Test
Liner Puncture Testing over 350 psi .....		410.00/Test
<b><i>Large Scale Direct Shear (ASTM D5321 and D6321)</i></b>		
Geosynthetic vs Geosynthetic – Method A .....		210.00/Point
Soil vs Geosynthetic Friction – Method B.....		260.00/Point
GCL Internal Shear .....		310.00/Point
Shear Speed (<0.04).....		110.00/Point
(Shear rate dependent on soil drainage characteristics and engineering specifications)		
Substrate Remolding Fee.....		60.00/Test
Additional Saturation Time (>24 hours) .....		60.00/Day
<b><i>GCL Testing</i></b>		
Index Flux Testing.....	D5887 .....	270.00/Test
Fluid Loss .....	D5891 .....	75.00/Test
Swell Index.....	D5890 .....	70.00/Test
Mass per Unit Area.....	D5993 .....	70.00/Sample
Custom Liner Testing .....		call for quote

All test methods are ASTM unless otherwise noted.

Special sample preparation and laboratory testing not listed above will be charged at applicable personnel rates.

All laboratory test rates are for standard turn-around time and normal reporting procedures. Rush orders will be subject to a 25 percent premium. Manpower requirements or test protocol may preclude the granting of a rush request.