



**City of San Luis
Board and Commission
Volunteer Appointment Application**

(Please return application to City Hall, 1090 East Union Street, P.O. Box 1170 San Luis, AZ 85364)

RECEIVED

2023 FEB -7 PM 12:10

DEPT OF PLANNING & ZONING
CITY OF SAN LUIS, AZ

Name: Luis H. Huizar Jr Date: Feb. 07 2023
Residence Address: 1479 N Arden Ave Home Phone: 928-502-9559
Mailing Address: PO Box 3471 Alternatate Phone: _____

The City of San Luis requires all board and commission members to be residents of the City of San Luis. Do you live with in the corporate limits of the City of San Luis? Yes No
Years Resided in San Luis 20 Yrs Years Resided in Arizona 35 Yrs

List three Boards and/or Commissions you are interested in serving on:

1) Planning and Zoning Commission 2) _____ 3) _____

Why are you interested in becoming a member of the Board(s) and/or Commission(s) you have selected?

I was born in Yuma, AZ and raised in San Luis, AZ. I left after high school graduation to pursue a degree at the University of Arizona. I returned to San Luis in September 2021 and would like to become involved with the city's initiatives to help improve the quality of life of residents and the community's infrastructure. I believe I can add value to the committee based on my education and extensive work experience in construction, engineering, water distribution systems, closure planning, electronics, and quality improvement.

Members are expected to attend all meetings of the Board/Commission unless otherwise excused. If a member is absent without excuse from three or more consecutive meetings, the City Council may remove this member from the Board/Commission and appoint another individual to serve the remainder of the term

The time commitment required for each board and commission varies depending upon the number of scheduled meetings and preparation time for those meetings. How much time can you commit to participate on a board or commission? Please be specific, i.e. number of hours weekly, monthly or quarterly.

I can dedicate 2 to 4hrs per week or 10 - 16hrs per month.

BOARD AND COMMISSION APPLICATION

If a resume is attached, the Education, Work Experience and Civic Involvement portions listed below need to be completed.

Education:	Score	1	2	3	4	5
	Low		High			

School	Degree	Year
University of Arizona _____	Ph.D. Environmental Engineering	May 2022 _____
University of Arizona _____	M.S. Environmental Engineering	December 2012 _____
University of Arizona _____	B.S. Chemistry _____	December 2010 _____

Work Experience:

Company	Position	Dates
SRK Consulting _____	Consultant _____	June 2014 - Present _____
University of Arizona _____	Graduate Research Assistant _____	Dec 2010 - March 2017 _____
See Resume for additional experience _____	_____	_____

Civic Involvements:

Organization	Position	Dates
Yuma County Chamber of Commerce _____	Member _____	August 2022 - Present _____
Dia del campesino 2022 _____	Sponsor/ Volunteer _____	Dec 2022 _____
San Judas Tadeo Catholic Church _____	Volunteer/Youth group leader _____	2000 - 2006 _____


Additional Qualifications:

I am currently serving as a health and safety manager for my current employer, SRK Consulting. During my graduate studies, I was a GK12 fellow assisting teachers from elementary to high school adapt real world problems and implement them into the education system in classrooms.

TOTAL SCORE _____

Personal References, including addresses and phone numbers:

- 1) Rogelio Martinez, 415 N Henry Chavez Ct, PO Box 1175 San Luis AZ, 928-627-1627 _____
- 2) Jennifer Villalobos, 4455 E Cameblack Rd Suite d-150, Phoenix AZ, 85018, 928-503-9746 _____
- 3) Tomas Navarro, 2533 E Houston Ave, Gilbert, AZ, 85234 , 928-580-2810 _____


02/07/2023
 Applicant Signature Date

**** Applications will remain on file in the Office of the Mayor and Council for one year from the above date****

Notice: In accordance to the San Luis City Code, Chapter 2, Section 2-4-6, The City of San Luis under Committees and Commissions states, Council may create such committees and commissions, standing or special, as it deems necessary. They shall consist of as many members and shall perform such duties as the council may require and shall exist at the pleasure of the council. For more information regarding rights and provisions of the San Luis City Codes, call (928) 341-8520.

LUIS H. HUIZAR JR, PH.D., M.S.

CONSULTANT (ENVIRONMENTAL ENGINEERING)

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San Luis, AZ, 85336

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SUMMARY

Luis Huizar has broad experience from his time as an undergrad, graduate student, mining consultant and owner of a micro urban farm start-up. He has worked in research laboratories at the University of Arizona as a graduate student, a NASA Space Grant intern and advisor for over 10 years. He has participated in design and implementation of decision support models in the upper San Pedro River in Arizona as well as in the development and application of sustainability, resilience and robustness metrics. His doctorate work focused on sustainability in the Colorado river and the statistical analysis of current climate and historical projections for future water availability. While completing his graduate studies, he minored in Chemistry with a focus in analytical chemistry electronics.

At SRK Consulting, he has worked in the mining field as an Environmental Engineer focusing on water management, telemetry and data management. He has extensive knowledge of the Mexican and American water quality standards and has managed multiple groundwater, surface water and civil construction projects focusing on water administration and telemetry systems. His current expertise focuses on managing data acquisitions, processing and analysis. These areas include set up of databases and storage programs followed by data analysis using Microsoft Excel, Power Query, Power BI and SCADA systems. His management project skills include coordination with third-party companies, safety reviews and budget management.

EXPERIENCE

April 2022 – Present

Co-Founder/Roaster/CFO – Colorado River Valley Roasters, San Luis, AZ

- Manage a micro roaster that focused primarily on roasting services for commercial clients.
- Manage inventory, accounting and invoicing
- Develop roast profiles, process and package materials
- Incorporate suitable practices into business including use of renewable energy and use of fair trade coffee.
- Conducted cost analysis for new products, calculated new product pricing and projections, and managed running cash flows.
- Used PowerBI to analyze and predict future growth, profits, and sales.

EDUCATION

Ph.D., Environmental Engineering
University of Arizona – Graduate
minor in Chemistry (Analytical
Electronics Focus), May 13, 2022

M.S., Environmental Engineering
University of Arizona, 2012

B.S., Chemistry, University of
Arizona, 2010

PUBLICATIONS

Huizar, Luis H., Lansey, K., Arnold, R.G.,
“Sustainability, Robustness and Resilience
Metrics for Water and Other Infrastructure
Systems”, Sustainable and Resilience
Infrastructure. 2018

Huizar, Luis H., Salguero M., 2015 “Use of
Telemetry for Remote Monitoring of Water
Use. Brackish Water Exception to
CONAGUA’s Artículo 224, Fraccion VI, de la
Ley Federal de Derechos. XXXI Convención
Internacional de Minería

Huizar, Luis H.D. Kang, K. Lansey, 2012
“Scenario Based Water Resources
Management Using Sustainability indicators”.
2012 World Environmental and Water
Resource Congress

Huizar, Luis H., D. Kang, K. Lansey, 2012 “A
Decision Support System for Sustainable
Urban Water Supply”. 2011 World
Environmental and Water Resource Congress

LANGUAGES

English

- Fluent (read and write)

May 2017 - Present

Consultant – SRK Consulting (U.S.), Inc., Tucson, AZ (assumed a variety of responsibilities within the organization as a mining consultant)

Field Manager

- Project field management including plan design, budgeting and field oversight for third-party contractors (earthwork, drilling and other consultants) to meet mine project needs.
- Follow engineered field plans and modify them as required to receive necessary approvals and to complete projects.
- Monitor budgets, task management and daily reporting to provide daily updates to clients.
- Schedule site personnel, assist with travel and construction logistics.

Telemetry, Electronics and Data Management

- Select and program dataloggers and PLC's for remote data acquisition and control.
- Select and install sensors from different manufacturers for data collection and process controls. Data collection and communications protocols used include Modbus RTU, Modbus TCP/IP, 4-20ma and SDI-12.
- Design custom dashboards, (client defined including Campbell Scientific and PowerBI for visualizations) provide graphical and tabular views, and downloadable queries.
- Integrate data system into internal SCADA system and relay to internal and regulatory VPN systems.
- Custom set up of automated remote data acquisition using http, TCP/IP and blob storage.
- Automate data ingestion, processing, and controls for traceable QC process.
- Automate acquisition and integration of disparate data streams into a single unified report.
- Process flow data and correlate to rain, snowfall and basin areas.
- Hydraulic assessment of surface water channels and creeks.
- Design and construct of control sections for high-accuracy of flash flood storm flow monitoring.
- Work directly with hardware and software companies for product development, beta testing and pricing, including Campbell Scientific and RST Instruments/Terra Insights.

December 2012 – March 2022

Graduate Student/Ph.D. Candidate – University of Arizona, Tucson AZ

- Researched sustainability in the Lower Colorado River Basin based on predicted drought.
- Determined the possibility of changing current operating rules for water release in both Lake Mead and Lake Powell reservoirs.
- Created sustainability metrics that can be used in different engineering fields.
- Created model in Matlab to determine the sustainability of predicted scenarios. Calibrate MATLAB model to USBR's model coded in RiverWare.
- Wrote original research articles.

March 2019 – December 2022

Co-Founder/CFO – Martha's City Farm, Tucson AZ

- Managed a small business that focused primarily on providing eggs and produce to a local community.
- Development projects focused on sustainability and decreasing carbon footprint such as decreasing transportation footprint, use of high-density crops, seasonal crop rotation to maintain soil fertility and composting to minimize trash production.
- Incorporated solar power and water reuse practices for crop growth and cleaning. Used automation to improve plant watering efficiency.

Spanish

- Fluent (read and write)

SOFTWARE

Proficient

- Microsoft Office Suites (Word, Excel, Outlook etc.)
- AutoCAD Civil 3D
- MATLAB
- MOBUSPoll
- Power BI
- Power Query
- Google Earth
- Campbell Scientific Software Suites

Win-Situ 5

Knowledge Of

- Dax Studio
- Arduino
- R
- EQuIS
- WinSCP
- LabView
- RiverWare
- PowerSim
- Adobe Dreamweaver

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- Conducted cost analysis for new products, calculated new product pricing and projections, and managed running cash flows.
 - Used PowerBI to analyze and predict future growth, profits, and sales.

June 2015 – May 2017

Staff Consultant – SRK Consulting (U.S.), Inc., Tucson, AZ

Environmental Engineering

- Audited laboratory techniques utilized for metal analysis.
- Determined use of new instrumentation and techniques required for environmental studies.
- Designed custom laboratory methods to meet environmental compliance requirements in Mexico.
- Conducted yearly and monthly water well monitoring compliance, analyzed and compiled laboratory data for compliance.
- Conducted geotechnical investigation of active tailings using cone penetration tests (CPT) with pore pressure dissipation testing (PPD).
- Conducted tests using Hydraulic Permeability Testing (HPT) and seismic testing including Shear and Compression waves.
- Developed newly drilled wells for ground water quality use.
- Assisted with well hydraulic testing plan and pump requirements.

Instrumentation and Data Management

- Selected and programmed dataloggers and PLC's for mining and environmental applications.
- Selected telemetry modules including radio (Point-to-point, mesh, etc) and cellular options for remote monitoring and data acquisition.
- Conducted hydraulic assessment of surface water channels and creeks.
- Designed and supervised construction of control section for high-accuracy storm flow monitoring.
- Selected and installed flumes, automatic crest gauges and flowmeters.
- Managed remote data collection.

June 2014 – June 2015

Intern – SRK Consulting (U.S.), Inc., Tucson, AZ

- Assisted with ground and surface water sampling for regulatory compliance.
- Assisted with sampling equipment installations and maintenance.
- Selected and installed surface water monitoring instrumentation.
- Designed mining water balance model.

Dec 2010 - March 2017

Graduate Research/Teaching Assistant – University of Arizona, Tucson AZ

- Taught two sessions of general chemistry per semester.
- Conducted research on ground water sustainability based on scenario planning.
- Analyzed sustainability metrics and their application to the Tucson Active Management Area.

Aug 2010 – May 2011

NASA Space Grant Advisor – University of Arizona, Tucson AZ

- Designed a model with multiple water sources and multiple users adding numerical index values to determine Reliability, Resilience, Vulnerability and Sustainability.
- Used a decision support system and implemented sustainability parameters to allow the comparison of multiple water systems, different water sources and hydrology (like climate variability).

Aug 2009 - 2010

NASA Space Grant Intern – University of Arizona, Tucson AZ

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- Focused on adjusting, editing and adding parameters to determine the sustainability of the Upper San Pedro River.
 - Optimized a model to match current and new data by adding variables to increase user input.
 - Added climate variability to allow groundwater level changes to be predicted in different climate scenarios.
 - Worked with PowerSim, Adobe Dreamweaver, Microsoft Office, amongst other programs.
 - Translated a website from English to Spanish.

