



January 3rd, 2019

Indian Wells Valley Groundwater Authority

Thank you for inviting this proposal to create an automated community-based groundwater-level monitoring network for the Indian Wells Valley Groundwater Basin.

WellIntel is a leader in creating cost-effective automated groundwater-level monitoring networks, complementing and extending existing networks, and generating rich and actionable datasets. The network proposed will inform groundwater managers of basin-wide groundwater conditions and reveal the dynamics in, and between, individual wells. It will also engage 10 well owners in groundwater management.

All data can be viewed by the Groundwater Authority in customize-able displays to readily interpret data through WellIntel's online dashboards. Well owners participating in the network will access their own wells' data through their own online dashboard, providing them personally relevant benefits to participating in groundwater management.

The proposed monitoring network consists of 10 monitoring points. Data will be streamed and displayed online. The network will assist the Groundwater Authority by:

- **continuously reporting groundwater-levels and pumping activity in real-time to online dashboards in customize-able displays**
- **engaging groundwater stakeholders in groundwater management**

Groundwater stakeholders are engaged in the groundwater management through:

- **receiving insight into their well's water supply and pumping dynamics through online dashboards**
- **registering their well with the Groundwater Authority**

This automated community-based groundwater-level network is provided initially as a 60-day trial. With approval of this proposal, we will process and ship the order and issue an invoice with net-60 days terms. WellIntel's field technician will work with IWVGA to select wells and install as quickly as possible in order to capture winter recovery and spring drawdown. The 60-day trial and payment terms begin once the network is installed. After 60 days, IWVGA can choose to keep the network and pay the invoice due.

I look forward to working closely with IWVGA to create this community-based monitoring network

Best Regards,
Lee Knudtson
WellIntel Business Development Representative

Indian Wells Valley Basin Monitoring Network Proposal

Project Budget Estimate

In this proposal, the network equipment is owned by IWVGA. WellIntel will monitor remotely and provide updates and alerts to your technical staff so that they can handle maintenance of the network.

Network Deployment costs for a 10-well network include:

- WellIntel system and adaptation equipment
- Assistance in network design and well candidate review
- Installation cost for 1 WellIntel technician to be in the field full time
- Training for dashboard use and equipment maintenance for the IWVGA team
- Year one of data services

| Network Commissioning + Equipment + Data Services | |
|--|-----------------|
| Services: Network Commissioning: community engagement, well candidate assessment, equipment installation, and system operation and maintenance training. Includes estimated travel and lodging costs for Technicians | \$2,870 |
| Equipment: WellIntel System - Sensor, Gateway and Battery - Groundwater-level data - Pumping activity data | \$5,680 |
| Allowance for wellhead adaptations: | \$1,370 |
| Year One Data Services: Standard Package - \$168/well annually - Includes network status monitoring and alerts, data QA/QC, water-level data aggregation, data delivery, data visualization Pumping Activity Metrics - \$28/well annually - Pumping activity monitoring and alerts, data aggregation, delivery, visualization - If measurement frequency exceeds, on average, more than 65 readings a day or 2K readings per month, WellIntel staff will notify an IW administrator and discuss options. | \$1,960 |
| Network Initiation and First Year costs + applicable shipping and sales tax | |
| We are providing this network as a 60-day trial. Our field technician will install within 30 days of your written consent. Once installation is complete, the 60-day trial will begin. | \$11,880 |

Indian Wells Valley Basin Monitoring Network Proposal

Ongoing Network Operation: includes data services and wear parts pricing.

IWWGA is responsible for ongoing maintenance of the network. WellIntel will need two persons of contact with the IWWGA, one for technical tasks to maintain the network and one for financial decision making. The technical staff will be trained on WellIntel dashboard use. IWWGA technical staff can use their WellIntel interactive dashboard to remotely monitor system operations and status - such as battery or sounder replacements - to plan for any network maintenance. WellIntel will provide ongoing remote support to IWWGA for network maintenance and we are always happy to respond to technical questions or to troubleshoot remotely.


| Annual Operation | |
|--|--------------|
| Data Services Invoiced annually | \$1,960 |
| Battery replacement As needed, dependent on sampling interval, the battery will last 12 to 24 months | \$60/battery |
| Sounder replacement As needed, dependent on construction/complication of well | \$45/sounder |
| WellIntel Field Services (optional) WellIntel Field Technician daily rate | \$1,250/day |
| Estimated annual cost + applicable shipping and sales tax Including wear parts listed above and Data Services | \$3,010/yr |
| Additional Details - Data sharing is available and controlled by IWWGA or designated authority | |

This quote is valid for 30 days from the date referenced in the title of this proposal.

Proposal Acceptance:

The above prices, conditions and specifications are satisfactory and hereby accepted. WellIntel is authorized to do the work specified. Payment will be made as outlined above.

Date of Acceptance: 17 January 2019

Signature: 

Name: Don Zdeba