COUNTY OF GLENN
AGENDA ITEM TRANSMITTAL

MEETING DATE: July 17, 2012
Submitting Department(s):
Planning & Public Works Agency

BRIEF SUBJECT/ISSUE DESCRIPTION:
Central Valley Regional Water Quality Control Board (CVRW/QCB) is requiring the installation of three additional water quality monitoring wells at the Glenn County Landfill. These wells are used to sample and monitor sub-surface groundwater at the landfill site.

Contact: John Linhart, Director
Phone: 530-934-6541

AGENDA PLACEMENT

APPOINTMENT – Appearances by: (Specify Name & Title)

ATTACHMENTS
☐ Board Report
☐ Letter
☐ Minute Order
☐ Contract
☐ Transfer
☐ Grant App.
☐ Resolution
☐ Ordinance
☐ Proclamation
☐ Policy Update
☐ Code Update
☐ Other

LEGAL/PERSONNEL/FISCAL
☐ County Counsel
☐ Personnel
☐ Finance
☐ County Administrative Office

Required _____ Minutes
☑ Business – No ☐ Consent
☐ Correspondence ☐ Reports & Notices

AFFECTED DEPARTMENT(S)
☐ Receive Concurrence

PUBLICATION HEARINGS & COMMITTEE VACANCIES
Public Hearings:
☐ Published
☐ Affidavit on File w/Clerk
☐ Affected Parties Notified

Committees:
☐ Vacancy Posted
☐ Application Attached

LEGISLATION
☐ State ☐ Federal

Bill#: ______
☐ Latest Version of Bill
☐ Draft Letter Attached
☐ List of Supporters/Opposers
☐ Statement of Relevance to County Interests
☐ Description Attached

FUNDING SOURCE/IMPACT
☐ General Fund Impact
☐ Other: ______
☐ Budgeted
☐ Transfer Attached
☐ 4/5ths Vote Required
☐ Contingency Request

CONTRACTS, LEASES & AGREEMENTS
☐ New ☐ Renewal
☐ Amendment
☐ Insurance Certificate
☐ Contract Report

Date of Original Contract: 3/8/10
Contract No.: PPWA2217
Fiscal Year: 2013

RECOMMENDED ACTION/MOTION:
Authorize Director of Planning & Public Works Agency to amend Lawrence & Associates contract #2217 to meet compliance requirements of California Water Quality Control Board for the installation of up to three additional monitoring wells at Glenn County Landfill.

Reviewed By (if applicable):

Department Head

Personnel Director

Department of Finance

County Administrative Officer

cc:
BOARD REPORT

EXECUTIVE SUMMARY:
Central Valley Regional Water Quality Control Board (CVRWQCB) is requiring the installation of three additional water quality monitoring wells at the Glenn County Landfill. These wells are used to sample and monitor sub-surface groundwater at the landfill site. Due to short timelines placed on the County by CVRWQCB, PPWA asked the two consultants currently under contract to the County for work at the landfill to provide quotes to perform this work under their contract. Quotes were received from these firms and the quote from Lawrence and Assoc. was the lower by several thousand dollars. Therefore staff is seeking authorization to proceed.

RECOMMENDATION(S):
Authorize Director of Planning & Public Works Agency to amend Lawrence & Associates contract #2217 to meet compliance requirements of California Water Quality Control Board for the installation of up to three additional monitoring wells at Glenn County Landfill.

HISTORY AND BACKGROUND:
Lawrence & Associates (L&A) has been under to contract with the county for several years to provide design as well as support services for the Glenn County Landfill. As a part of those services, L&A has been working with the CVRWQCB to monitor any potential groundwater contamination. A recent agreement with the CVRWQCB requires the County to drill three additional wells to monitor if there is any contamination “drift” in sub-surface groundwater lenses. After negotiation, the State has allowed the County to drill two wells initially to be followed by one additional well once a clearer picture has been determined about the direction and location of sub-surface groundwater lenses. Because of the possibility that the well could not be optimally located with our current information about sub-surface water lenses, CVRWQCB has agreed to defer the drilling of the third well until a later date.

Because of short timelines, PPWA has contacted the two consultants, Lawrence and Assoc. and Haling and Assoc., who under contract to provide support services to the landfill to solicit bids from well drillers. The firm recommended by Lawrence and Assoc. would perform the services at a lower price and it is therefore the recommendation of PPWA for Lawrence and Assoc. to contract to provide the well drilling service.

FISCAL/PERSONNEL IMPACT(S):
No general Fund impact. The contract to Lawrence and Assoc. would be amended to cover the cost of drilling (initially) two monitoring wells. The additional compensation will increase the total contract price to Lawrence and Associates to an amount not to exceed $264,813.34 (two hundred sixty four thousand eight hundred thirteen dollars and thirty-four cents.) Because the location of the third well is not known yet, costs are not definite but the third well should follow roughly the same cost as the first two.

ANALYSIS/DISCUSSION:
This process has been used in the past for monitoring wells and found to be an efficient use of resources to perform needed work at the landfill.
Contract / Agreement Report

As directed by the Board of Supervisors, the Clerk shall maintain the official file of all Contracts. A contract Report is to be completed and submitted with all Contracts to the Board of Supervisors' Division of the County Clerk’s Office. Department Heads are responsible for

PPW 2217
Agreement No. .1
Delineator Trait
2013 Fiscal Year

Delineators a., b., etc. = Subcontracts
.1., .2., etc. = Contract Amendments
Fiscal year = (optional to be used for new FY Contracts in same # continuing contract)
Traits = P/Pending - Original Contract Not on File/to be submitted
GP/Grant pending - Original contract to be submitted if grant is awarded
E/Exempt - Original Contract Exempt from Filing with Clerk
A/Acknowledgment - Contract Acknowledgment Pending

Contract Category Professional (Construction, Franchise, Interagency, JPA, Maintenance, Miscellaneous, property Lease, Service, State Grant)

Administering Department PPWA-Solid Waste
Contract Executed by Director-John Linhart
Authority for Execution BOS MO #9 - 3/2/2010
Contractor Name Lawrence & Associates
Description of Contract Amendment - Install two monitoring wells
Contractor's Tax ID or Soc. Sec. No. 94-2661102 Social Security No. required unless incorporated

Beg. Term Date 06/29/2012 If no termination date is specified within the contract, indicate recommended review date not to exceed one year increments
Ending Term Date
Recommended Review Date 06/30/2013

Contract Amount Paid by County $:
Contract Amount Paid to County $:
Contract's Maximum Amount $: 264,813.34 (Not to exceed Amount)

Other Terms hourly rates per Exhibit B - Fee Schedule

Insurance Required? Yes
Insurance Ending Term Review Date 2/1/2013
Insurance Waiver from County Counsel (requires County Counsel Initials) No

Clerical Notes

CONTRACT NOTES

Term ends with satisfactory completion as deemed satisfactory by Glenn County.

Please indicate other changes to be made to database and whether contract is open, closed, renewal being processed, etc.
FIRST AMENDMENT TO CONTRACT/AGREEMENT #2217
BETWEEN COUNTY OF GLENN AND LAWRENCE & ASSOCIATES
FOR EXPANSION, CLOSURE, PERMITTING, AND CONSTRUCTION QUALITY ASSURANCE
FOR THE GLENN COUNTY LANDFILL

The parties have executed that agreement entitled “Agreement between County of Glenn and Lawrence & Associates for Expansion, Closure, Permitting, and Construction Quality Assurance for the Glenn County Landfill” dated March 8, 2010. The parties desire to amend and extend the terms of the agreement.

Therefore, the parties do hereby amend the Agreement by this first amendment to the Agreement as follows:

SCOPE OF WORK
Contractor will provide the following services:
- Coordinate with Glenn County staff, mark the monitoring-well locations, and call for an Underground Service Alert.
- Provide a California licensed drilling contractor (C-57) to drill and install the monitoring wells. The monitoring wells will be installed per Contractor’s Work Plan. Based on the inferred depth to the target aquifer, M-12 will be drilled to at least 160 feet in depth, and M-13 will be drilled to 242 feet in depth. The bore hole size will be a minimum of 6-inches in diameter, and the wells will be constructed with two-inch, Schedule 80 PVC casing; the screened interval will be 0.020-inch slots. The surface seal for each well will be installed so as to seal off all overlying gravel zones. A locking steel riser will be installed around each well head after the wells are completed.
- The wells will be developed by the drilling contractor using a surge block and bailer until free of fine sediment. Then, the wells will be pumped until visually clear. Development and purge water will be placed on the ground and allowed to infiltrate or evaporate. During drilling, Contractor will log the boring and determine the final depths and construction details based on drilling conditions. Contractor will prepare an installation report and well logs documenting construction of the wells. The installation report will be submitted to the Central Valley Regional Water Quality Control Board (CVRWQCB).

COMPENSATION
The additional compensation payable pursuant to this contract is not to exceed $45,000 (forty five thousand dollars) with the overall total of the contract not to exceed $264,813.34 (two hundred sixty four thousand eight hundred thirteen dollars and thirty-four cents). No additional sums will be paid for services rendered. Contractor shall not perform additional work without prior written authorization from County.
FIRST AMENDMENT TO CONTRACT/AGREEMENT #2217
BETWEEN COUNTY OF GLENN AND LAWRENCE & ASSOCIATES
FOR EXPANSION, CLOSURE, PERMITTING, AND CONSTRUCTION QUALITY ASSURANCE
FOR THE GLENN COUNTY LANDFILL

All other terms of the Agreement shall remain in force and effect.

EXECUTED at Willows, California, on _________________________

CONTRACTOR

__________________________

COUNTY OF GLENN

__________________________

John Linhart, Director

APPROVED AS TO FORM:

[Signature]

Huston T. Carlyle, Jr., County Counsel
Glenn County, California
May 31, 2012

Mr. John Linhart, Director
Glenn County Planning & Public Works Agency
P.O. Box 1070
Willows, CA 95988

Dear Mr. Linhart:

SUBJECT: PROPOSAL TO INSTALL MONITORING WELLS M-12 AND M-13 AT GLENN COUNTY LANDFILL, ARTOIS, CALIFORNIA

INTRODUCTION
Enclosed is our proposal to install two groundwater-monitoring wells at Glenn County Landfill, Artois, California.

BACKGROUND
The purpose of proposed wells M-12 and M-13 is to monitor groundwater quality in the uppermost, continuously saturated interval beneath the Landfill. There are several existing wells at the Landfill, but there are not three in any one aquifer. Thus, it is currently not possible to construct a groundwater-elevation contour map for the Landfill, and thereby interpret the direction and magnitude of the groundwater gradient, as required by Title 27 of the California Code of Regulations.

Lawrence & Associates submitted a work plan for installation of proposed monitoring wells M-12 and M-13 in correspondence titled Work Plan for Monitoring Well Installation at Glenn County Landfill, Artois, California (Work Plan), dated October 28, 2011. Concurrence for the Work Plan was received from the Central Valley Regional Water Quality Control Board (CVRWQCB) in correspondence titled Conditional Approval of Work Plan for Monitoring Well Installation, Glenn County Class III Municipal Solid Waste Landfill, Artois, Glenn County, dated December 1, 2011. In their concurrence letter, the CVRWQCB request that the proposed monitoring wells be installed by July 1, 2012, and that CVRWQCB staff is informed of the drilling schedule.
Proposed well M-12 will be located just south of existing well M-10. M-12 is intended to be a compliance well to evaluate the first continuously saturated zone in the area of the former M-5 (which had damaged casing, allowing leachate migration into the well). Proposed well M-13 will be located midway along the western property boundary, it is intended to evaluate background quality in the first continuously saturated zone.

The locations of the proposed wells assumes a generally west to east groundwater gradient (following regional topography). Additional wells may or may not be needed, depending on the direction of the groundwater gradient calculated from the new and existing wells. If the results show that additional well(s) are needed (e.g., the gradient is strictly west to east necessitating a well directly east of the landfill), a work plan for such wells will be submitted to the CVRWQCB.

**PROJECT UNDERSTANDING**

L&A understands the County will provide drivable access to the well locations and that the well locations will be relatively level to accommodate the drill rig. L&A assumes the County will survey the monitoring wells after they are installed, and that County’s consultant will sample the wells per Monitoring and Reporting Program No. R5-2006-0119 once they are completed.

**SCOPE OF WORK**

L&A will provide the following services:

- Coordinate with Glenn County staff, mark the monitoring-well locations, and call for an Underground Service Alert.

- L&A will provide a California licensed drilling contractor (C-57) to drill and install the monitoring wells. The monitoring wells will be installed per L&A’s Work Plan. Based on the inferred depth to the target aquifer, M-12 will be drilled to at least 160 feet in depth, and M-13 will be drilled to 242 feet in depth. The bore hole size will be a minimum of 6-inches in diameter, and the wells will be constructed with two-inch, Schedule 80 PVC casing; the screened interval will be 0.020-inch slots. The surface seal for each well will be installed so as to seal off all overlying gravel zones. A locking steel riser will be installed around each well head after the wells are completed.

- The wells will be developed by the drilling contractor using a surge block and bailer until free of fine sediment. Then, the wells will be pumped until visually clear. Development and purge water will be placed on the ground and allowed to infiltrate or evaporate.

- During drilling, an L&A Geologist will log the boring and determine the final depths and construction details based on drilling conditions. L&A will prepare an installation report and well logs documenting construction of the wells. The installation report will be submitted to the CVRWQCB.
COST ESTIMATE

The estimated cost of the work described above is $42,823. Attachment A includes a detailed cost estimate. Additional costs incurred outside of the scope of work, at the Client's request, will be in accordance with the fee schedule (Attachment B).

Thank you for the opportunity to provide a proposal for this work. If you would like us to perform the work, please incorporate the attached proposal into your contract and provide us copies for signature. Please do not hesitate to contact me at (530) 275-4800 or blampley@hwrnc.com if you have any questions about this proposal.

Sincerely,

Bonnie E. Lampley
President/Principal Hydrogeologist

enc.: Contract & Attachments
## Attachment A
Cost Estimate - May 31, 2012
Glenn County Landfill
Monitoring Well Installation

<table>
<thead>
<tr>
<th></th>
<th>Lawrence &amp; Associates</th>
<th>Total</th>
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<tbody>
<tr>
<td></td>
<td>Principal Geologist</td>
<td>$135.00</td>
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<tr>
<td></td>
<td>Senior Hydro-Geologist</td>
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<tr>
<td></td>
<td>Staff Geologist</td>
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<tr>
<td></td>
<td>AutoCAD</td>
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<tr>
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<td>Clerical</td>
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<tr>
<td></td>
<td>Mileage</td>
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<td>In house Expenses</td>
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<tr>
<td></td>
<td>Outside Expenses</td>
<td>$1.00</td>
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<td><strong>Install and Document Monitoring Wells</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Direct drilling, review report</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Mark well locations, coordinate with driller, log wells, prepare installation report and submit to RWQCB</td>
<td></td>
<td>64 4 2 450 630</td>
</tr>
<tr>
<td>Contractor, drill, install, and develop two monitoring wells (includes 10% markup)</td>
<td></td>
<td>35,288</td>
</tr>
<tr>
<td><strong>Subtotals</strong></td>
<td></td>
<td>$0 $440 $5,760 $280 $110 $315 $630 $35,288</td>
</tr>
<tr>
<td><strong>TOTAL ESTIMATED COST</strong></td>
<td></td>
<td>$42,823</td>
</tr>
</tbody>
</table>

Note: Our commitment is to the total project budget.

Work-hour and staff allocations to individual activities are approximate, and are shown to indicate approximate level of effort.

The maximum indicated total fee will not be exceeded without written authorization.
**ATTACHMENT B – FEE SCHEDULE**

**Professional Services**
- **Engineering Geologist/Hydrogeologist**
  - Principal: $140/hour
  - Senior: $115/hour
  - Associate: $100/hour
  - Staff: $90/hour
  - Assistant: $85/hour
- **Engineer**
  - Principal Engineer: $140/hour
  - Senior Registered Civil: $120/hour
  - Associate Civil: $110/hour
  - Assistant Civil: $90/hour
  - Engineering Technician: $75/hour
- **AutoCAD Operator (Level I)**: $70/hour
- **AutoCAD Operator (Level II)**: $60/hour
- **Field Technician**: $70/hour
- **Laborer**: $60/hour
- **Surveyor**: $70/hour
- **Tank Fund Administrator**: $55/hour
- **Clerical**: $55/hour
- **Word Processor**: $55/hour

**Deposition and Court Appearances**
- Minimum charge: $1200 part or full day
- Deposition Rate: $180/hr
- Preparation at consulting-service rates: as listed above

**Drilling Services (CME-55 drilling rig)**
- 7-5/8 and 9-5/8-inch OD augers with operator and helper: (See drilling schedule of fees)

**Other In-House Equipment**
- Test pumps (submersible, through 5 HP): quoted/job
- Campbell 21X data loggers w/ transducers (water and gas): quoted/job
- Conductivity, oxygen, temperature and dissolved oxygen probes: quoted/job
- Meteorological station (wind direction and velocity): quoted/job
- Gas-extraction and air-monitoring pumps: quoted/job
- Mileage: $0.70
- Mileage (drilling rig): $1.00
- Per diem (per person/day; may vary dep. upon location): $120+/day
- Level D protection (per person/day): $30/day
- Level C protection (per person/day): $50/day
- Survey equipment (per day): $50/day
- GPS Survey (per day): $150/day

**Expenses, Materials, Outside Services**
(All direct-job related expenses: reproduction, rental equipment, materials, subcontracted labor and equipment) at cost + 15%