



**ADDENDUM NO. 2  
Issued March 28, 2013**

**TO**

**“REQUEST FOR BIDS  
FOR  
ENVIRONMENTAL MONITORING, LABORATORY ANALYSIS  
AND REPORTING SERVICES FOR CRRA LANDFILLS”  
(RFB Number 13-EN-002)  
(RFB Issued February 25, 2013)**

**Note:** Bidders are required to acknowledge this and all Addenda in Section 6(a) of the Bid Form.

## 1. ANSWERS TO SUBMITTED QUESTIONS

This Addendum consists of the Connecticut Resources Recovery Authority's responses to written questions that were received by CRRA by 3:00 p.m., Thursday, March 21, 2013.

<b>1.</b>	Question	The RFB specifies measuring DTW, DTB and depth to pump; however, monitoring wells have dedicated bladder pumps already in place. Is consultant required to remove pumps/tubing/etc. to gauge DTB at these wells?
	Answer	For those monitoring wells with dedicated bladder pumps in-place, the consultant is not required to remove the pumps in order to obtain DTB measurements. The consultant will be allowed to rely on DTB measurements that are listed in the well drilling logs.
<b>2.</b>	Question	Can you outline CRRA's winter snow removal policy for all sites and off-site properties?
	Answer	Contracts for snow removal are in place for each of the landfills for snowfall depths 3" and greater. Main access roads will be cleared. The dike access road at the Hartford Landfill is maintained by the City of Hartford, and the City typically does not remove snow from this access road. Firms are encouraged to leave themselves enough time during each testing period that a single weather event would not prevent the consultant from safely conducting field activities during an entire testing period. However, CRRA will address this issue on a case by case basis and reserves the right to address this issue via a separate RFS.
<b>3.</b>	Question	At the Hartford Landfill, can surface water points T-4 and T-5 (along Meadow Brook) be accessed by foot (versus boat)?
	Answer	A boat is typically not required to collect the surface water samples from Meadow Brook; however, the sampled portion of Meadow Brook is subject to tidal influences and seasonal flooding, similar to the Connecticut River, which can make sample collection more difficult during those seasons.
<b>4.</b>	Question	At the Hartford Landfill, what is the make and model of the referenced pneumatic pressure transducers?
	Answer	The equipment dedicated for use at the Hartford Landfill is the Slope Indicator Company Model 514177 which is used with an analog gauge.
<b>5.</b>	Question	At the Hartford Landfill, Table 1 (Summary of Monitoring Well Construction (Sampled Wells Only)) includes 27 monitoring wells. Table 2 and text of RFP specify 25 monitoring wells. The difference is that Table 1 has W-15 and W-16. Please clarify this discrepancy.
	Answer	Sampling of W-15 and W-16 is not required. Table 2 and the text of the RFB Scope of Services, which list sampling at 25 monitoring wells, are correct.
<b>6.</b>	Question	At the Hartford Landfill, Table 2 indicates that C-1 is "Compliance Well" and "Surface Water Protection Well" MW-340. Figure 2 indicates that MW-340 is destroyed/abandoned. Please clarify this discrepancy.

	Answer	MW-340 was damaged and subsequently abandoned in accordance with the State Well Drillers' Code. CRRA has unsuccessfully attempted to install a replacement for MW-340 in the past, and will likely attempt to install a replacement well again at some point in the future. For bidding purposes, bidders should assume that a replacement for the currently-abandoned MW-340 will be installed by CRRA, and that the successful bidder will have to monitor the replacement well as specified in the RFB.
7.	Question	At the Shelton Landfill, for sanitary discharge sampling, RFB specifies an auto-sampler to be supplied by the consultant and composite sample is to be collected over the course of +/- 6 hours. During the site walk, it was noted that manual sampling may be utilized for the composite samples and that the discharge is over the course of +/- 2 hours. Is what was discussed at the site walk an acceptable process for the bid?
	Answer	Typically, the sanitary discharge duration at the Shelton Landfill does not exceed two (2) hours. Therefore, the composite sample may be collected over a +/- 2 hour period. As indicated by CRRA during the site walk, the decision on whether to utilize an autosampler or to manually collect wastewater aliquots over the duration of the discharge will be at the consultant's discretion.
8.	Question	With regard to updated or revised QAPPs for the Shelton Landfill and the Wallingford Landfill, it was stated or at least implied sometime during the landfill site walkovers that such QAPPs will merely have to be updated or revised in terms of consultant contact personnel, organizational relationships among consultant personnel, between consultant and CRRA, and between consultant and selected analytical laboratory, and the replacement of attached laboratory SOPs in the case of a change in analytical provider.
	Answer	It is the responsibility of each bidder to determine the level of effort necessary to update the applicable QAPPs. As noted in each applicable Scope of Services (Task 1.6 of the Shelton Landfill Scope and Task 2 of the Wallingford Landfill Scope), it will be the Consultant's responsibility to ensure that the revised QAPP meets the requirements of the quality assurance guidance documents specified in the Scope of Services and in the applicable Stewardship Permit (the <i>Quality Assurance Guidance for Conducting Brownfields Site Assessments</i> , US EPA OSWER Directive No. 9230.0-83P, and Connecticut's Reasonable Confidence Protocols). CRRA's statements with respect to updating "consultant contact personnel, organizational relationships, etc." were provided as examples of project changes that the consultant may make during the course of the three-year term of the Agreement that will necessitate modifications or revisions to the QAPP, but for which CRRA will NOT be required to pay because these project changes are not changes to the Scope of Services. After the Consultant has submitted its initial revision of the QAPP to CT-DEEP for approval (to meet the requirements of Task 1.6 of the Shelton Landfill Scope and Task 2 of the Wallingford Landfill Scope), the Consultant will be responsible for all future QAPP revisions and modifications that not necessitated by a change in the scope of work but are required to keep the QAPP current, and to address CT-DEEP questions and concerns.
9.	Question	With regard to updated or revised QAPPs for the Shelton Landfill and the Wall-

		ingford Landfill, will CRRA provide winning bidders with editable electronic copies of the current QAPPs? Is the original author of the QAPPs in a position to object to the verbatim use of their QAPP narratives, tables, organization, drawing and figures, and any other presentation elements under the title and letterhead of another consultant?
	Answer	The QAPPs are the property of CRRA and may be edited at a future date by CRRA or its Consultant of choice. A word version of the text of each QAPP that was approved in March 2010 will be provided by CRRA. It will be the Consultant's responsibility to put the revised QAPP under its title and letterhead upon submission of the QAPP to CT-DEEP for approval.
10.	Question	At the Hartford Landfill, are QA/QC samples (i.e. field duplicate, equipment and field blanks – note that a stainless steel bailer is to be used to purge and sample the well) required to be collected and analyzed for dioxin and furan in association with the annual sampling of monitoring well MW-DX?
	Answer	No.
11.	Question	At the Hartford Landfill, please confirm whether the bid is or is not to include any leachate seep sampling. If it is, please indicate the number of seeps to be assumed per quarter.
	Answer	As specified in the Scope of Services and in the "Not-to-Exceed Bid Price Form," Bidders should assume that up to four (4) "persistent" leachate seep samples will be collected per quarter.
12.	Question	At the Hartford Landfill, are trip blanks or any other QA/QC samples required for the monthly or quarterly sanitary discharge monitoring (Task 2) or for the untreated ash leachate sampling (Task 1.1)?
	Answer	Trip blanks or other QA/QC samples are not required for the sanitary discharge monitoring or the untreated ash leachate sampling.
13.	Question	At the Hartford Landfill, for the sanitary discharge monitoring (Task 2), Table 3 in the Scope of Services indicates sample location 001-A to be analyzed monthly for total copper and total lead, but analyzed <u>only</u> quarterly for the 001-B sample location (inconsistent with the other monthly parameters). Is this correct?
	Answer	At the Hartford Landfill, Table 3 in the Scope of Services is correct that sanitary discharge sample location 001-A is to be analyzed monthly for total copper and total lead, while the analysis of both parameters for the 001-B is on a quarterly basis.
14.	Question	At the Hartford Landfill, will field duplicate samples need to be collected for any interim quarterly compliance well sampling that may be required?
	Answer	No.
15.	Question	At the Hartford Landfill, Task 2.3 Sanitary Discharge Monitoring Scope of Services indicates that the contractor is only to provide laboratory reports, chains-of custody, and field data sheets to CRRA. Please confirm that there are no other reporting requirements by the contractor (e.g. DMR forms, letter reports, etc.).
	Answer	There are no other requirements of this task at the Hartford Landfill other than what is specified in the Scope of Services.
16.	Question	Shelton Landfill, Task 2.3 Sanitary Discharge Monitoring Scope of Services indicates that the contractor is only to provide laboratory reports, chains-of custody, and field data sheets to

		CRRA. Please confirm that there are no other reporting requirements by the contractor (e.g. DMR forms, letter reports, etc.).
	Answer	There are no other requirements of this task at the Shelton Landfill other than what is specified in the Scope of Services.
17.	Question	At the Shelton Landfill, are any QA/QC samples required for the monthly or quarterly sanitary discharge monitoring (Task 2) or for the untreated ash leachate sampling (Task 1.1)?
	Answer	There are no QA/QC samples required at the Shelton Landfill for the monthly sanitary discharge monitoring or semi-annual ash leachate sampling events.
18.	Question	At the Wallingford Landfill, is a field duplicate required to be collected and analyzed for dioxin and furan in association with the annual sampling of monitoring wells MW-3 and MW-200?
	Answer	Dioxin and furan analysis is to be collected for MW-3 and DX-01 as discussed in Question 21 below. A field duplicate is not required.
19.	Question	Current analyses include sampling for Total Suspended Solids (TSS), yet Table 2 does not include TSS as a monitored analyte. Should TSS be sampled at a semi-annual frequency in 13 wells at Wallingford landfill, 8 wells at the former Barberino property and surface water?
	Answer	Yes, TSS monitoring is required at the 13 wells at the Wallingford Landfill, 8 wells at the former Barberino property and the 10 surface water locations.
20.	Question	Table 2 of Exhibit E-4 shows monitoring parameters and frequency of sampling for the Wallingford Landfill and former Barberino property. The revised Water Quality Monitoring Plan originally called for the cessation of analyses in groundwater for aluminum, barium and magnesium. Upon further review, these constituents were identified as leachate indicator metals and analysis for these metals has continued since 2010. Should Table 2 be modified to include aluminum, barium and magnesium sampled at a semi-annual frequency in 13 wells at Wallingford landfill and 8 wells at the former Barberino property?
	Answer	Wallingford Landfill's Table 2: Monitoring Parameters has been revised to include the analysis of aluminum, barium and magnesium at the 13 wells at the landfill and the 8 wells located on the former Barberino property. A revised Table 2 Monitoring Parameters for the Wallingford Landfill is attached hereto this Addendum 2.
21.	Question	Table 2 of Exhibit E-4 shows dioxin/furan analyses in MW-3 and MW-200 only at the Wallingford Landfill. Adjacent well DX-01 was then found to be viable and dioxin sampling since 2010 has been conducted in DX-01 instead of MW-200. This results in an extra well to be sampled during the annual event in April. Should Table 2 be modified for dioxin analysis in DX-01 instead of MW-200?
	Answer	Dioxin/furan analysis is required at DX-01 and MW-3 only.
22.	Question	Table 2: Monitoring Parameters in the Shelton Landfill Scope of Services did not include analysis of zinc for all monitoring wells or include analysis of volatile organic compounds (VOC). Please clarify.

	Answer	A revised Table 2 Monitoring Parameters for the Shelton Landfill is attached hereto this Addendum 2. Total zinc analysis is required at all monitoring wells listed in Table 2 while VOC analysis is required at MW-BR6, MW-Ed, MW-104s, and MW-BR-16s.
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## **2. NOTICE OF RE-POSTING OF ELECTRONIC (WORD) FORMS**

Some firms reported issues when filling in the electronic (Word document) versions of the pricing forms (Section 4.2 of the RFP Package Documents) for this RFB. These Word documents have been re-posted to the business opportunities page of the CRRA website ([www.crra.org](http://www.crra.org)) as of 10:50 a.m on March 28, 2013, and this problem seems to be resolved. No changes to the substance of these documents were made. If you still have any difficulty using these forms, please contact Roger Guzowski, CRRA's Contract and Procurement Manager by phone (860-757-7703) or by email at [rguzowski@crra.org](mailto:rguzowski@crra.org).

## **3. ATTACHMENTS**

The following documents are attached hereto and made a part hereof this Addendum 2:

- Revised Table 2 Monitoring Parameters for the Wallingford Landfill (1 page)
- Revised Table 2 Monitoring Parameters for the Shelton Landfill (2 pages)

**END OF ADDENDUM 2**

**Table 2  
Monitoring Parameters  
Wallingford Landfill and Former Barberino Property  
Wallingford, Connecticut**

Parameters	Wallingford Landfill	Former Barberino Property	
	13 Wells	8 Wells	10 Surface Water
<b>Field Parameters:</b>			
Depth to Water	S	S	-
Water Elevation (msl)	S	S	-
pH	S	S	S
Temperature	S	S	S
Specific Conductance	S	S	S
Dissolved Oxygen	S	S	S
Redox Potential	S	S	S
Turbidity	S	S	S
<b>Inorganic Leachate Indicator Parameters:</b>			
Total Dissolved Solids (TDS)	S	S	S
Alkalinity, Total	S	S	S
Hardness	S	S	S
Biochemical Oxygen Demand (BOD5)	S	S	-
Chemical Oxygen Demand (COD)	S	S	S
Chloride	S	S	S
Nitrate (N)	S	S	-
Ammonia (N)	S	S	S
Sulfate, Total	S	S	S
Cyanide, Total	S	S	-
Total Suspended Solids (TSS)	S	S	S
<b>Metals<sup>1</sup>:</b>			
Aluminum	S	S	S
Arsenic	S	S	S
Barium	S	S	S
Beryllium	-	-	S
Cadmium	-	-	S
Chromium, Total	S	S	S
Copper	S	S	S
Iron	S	S	S
Lead	S	S	S
Magnesium	S	S	S
Manganese	S	S	S
Mercury	-	-	S
Nickel	S	S	S
Potassium	S	S	S
Selenium	-	-	S
Sodium	S	S	-
Vanadium	-	-	S
Zinc	S	S	S
<b>Dioxins / Furans:</b>			
Method 1613B	A <sup>2</sup>	-	-

S = Tested Semi-Annually in April and October

A = Tested Annually in April

**Notes:**

1. Groundwater samples to be analyzed for total metals concentrations. Surface water samples to be analyzed for dissolved metals concentrations.
2. MW-3 and DX-01 only.

**TABLE 2  
MONITORING PARAMETERS  
SHELTON LANDFILL  
SHELTON, CONNECTICUT**

(1)	(2)	(3)	(4)
Parameters	Surface Water	Groundwater	Leachate
Description: Number of Sample Locations:	5 ea + 1 QA/QC	Wells 26 ea + 1 QA/QC	Untreated 2 ea
<u>Field Measured</u>			
Time of Collection	X	X	X
Sample Depth	X	X	X
Total Water Column Depth	X	X	X
Water Level Elevation		X	
Water Temp.	X	X	X
Air Temp.	X		X
PH	X	X	X
Spec. Cond.	X	X	X
Salinity	X		X
Dissolved Oxygen (D)	X		X
ORP		X	
Turbidity - (NTU)		X	
Water Clarity-Secchi Disk	X		X
<u>Lab Measured</u>			
Spec. Cond.		X	X
PH			X
TDS			X
TSS			X
Chloride			X
Alkalinity			X
Hardness as CaCO3		X	X
BOD - 5-day			X
COD			X
Ammonia - (T)			X
TKN (T)			X
Nitrate (T)			X
Nitrite (T)			X
Phosphorus (T)			X
Aluminum (T)			X
Arsenic (T)		X	X
Barium (T)		X	X
Cadmium (T)		X	X
Chromium (T)		X	X
Copper (T)	X	X	X
Iron (T)	X	X	X
Lead (T)		X	X
Manganese (T)		X	X
Mercury (T)			X
Nickel (T)		X	X
Potassium (T)		X	
Selenium (T)		X	
Silver (T)		X	X
Zinc (T)		X	X



**TABLE 2  
MONITORING PARAMETERS  
SHELTON LANDFILL  
SHELTON, CONNECTICUT**

(1)	(2)	(3)	(4)
Parameters	Surface Water	Groundwater	Leachate
<b>Description: Number of Sample Locations:</b>	<b>5 ea + 1 QA/QC</b>	<b>Wells 26 ea + 1 QA/QC</b>	<b>Untreated 2 ea</b>
<b>Additional Parameters to be monitored only at listed locations:</b>			
Volatile Organic Compounds (VOC's) via EPA Method 8260		X-1	
Radium (Radium-226 and Radium-228 combined via EPA Method 9320 of SW-846)		X-2	
Gross Alpha		X-2	
Gross Beta		X-2	
Dioxins and Furans via EPA Method 8280			X
<b>NOTES:</b>			
The minimum detection limit (MDL) must be at least as low as the SWPC, if a criteria has been established for the compound.			
<b>Surface Water</b>			
<i>Column 2</i> - Samples will be collected as a composite of top, mid and bottom from SW-3, SW-4, SW-5. A mid-depth sample will be collected from SW-1 and SW-2			
<b>Ground Water</b>			
<i>Column 3</i> - The twenty-six monitoring wells that are sampled under the Water Quality Monitoring Plan are as follows:			
<p style="margin-left: 40px;">MW-100 MW-Cs MW-D2d MW-Ed MW-BR7 MW-Cd MW-BR-18  MW-GP4 MW-BR1 MW-I3s MW-16s MW-BR4 MW-Qb MW-BR-19  MW-Td MW-BR8 MW-104s MW-Rs MW-BR2 MW-BR5  MW-17d MW-BR6 MW-Rd MW-Bd MW-105 MW-A</p>			
<p style="margin-left: 40px;">X-1 The following four monitoring wells shall also be analyzed for Volatile Organic Compounds via EPA Method 8260:  MW-BR6 MW-Ed MW-104s MW-BR-16s</p>			
<p style="margin-left: 40px;">X-2 The following five monitoring wells shall also be analyzed for Radionuclides:  MW-Qb MW-BR5 MW-A MW-BR-18 MW-BR19</p>			
<b>Untreated Leachate</b>			
<i>Column 4</i> - The following 2 locations represent the sample locations for untreated ash residue leachate from the SEEA and the NEEA, respectively: L-1S (SEEA Lift Station)                      L-1N (NEEA Lift Station)			