ATL-2010-282

Attachment

Fiscal Year 2011 CHPRC Projects for SLA-R2a

Consisting of 7 pages including coversheet

WBS Code	Project	Direct Analytical Estimate	Base Ops Estimate	Total Cost
	ARRA PRC: PFP Demolition (RL11 ARRA)			
01.03.01.XX.01	CHPRC ARRA RL11 PFP Demolition	$ [redacted]		

This estimate assumes that 25 samples will be delivered from the PFP demolition project for FY2011. The assumption is that these will all be solid samples and ATL will receive 5 samples per sample delivery group. It is assumed that there will be a separate report prepared for each sample delivery group. An additional assumption (suggested by [redacted]) is that about 20% of the samples will require PCB, VOA, SVOA, and TPH - Kerosene analyses. Gravimetric % Solids analysis was added to report PCBs to the dry weight of sample. It is assumed that only 20% of the samples will require metals analysis by ICP/MS. It assumes that approximately 40% of the samples might be acidic liquids that might need hydrogen ion analysis.
This estimate assumes that all 5 samples received in a sample delivery group can be included in a single analytical batch for each requested analysis. Additional hours have been added to include extra time needed for pre-jobs and extra care needed for handling alpha samples. If NDA results indicate that 5 samples cannot be included in a single batch, extra hours will be required to complete the work.
Preliminary results will be provided via electronic mail upon request. The final report will be provided within 45 days of receipt of the last sample for the sample delivery group. The turnaround time will start after receipt of the last sample, after any sample receipt issues are resolved.
The final report will consist of a case narrative, a data summary report of results, copies of the receipt documents, and significant communication records. Base Operations costs will be distributed to the customer on a monthly basis. The Base Operations costs provided reflect the portion of monthly costs that are associated with this work scope.

01.03.01.XX.01	CHPRC ARRA RL11 Be Wipes	$ [redacted]		

This estimate is based on the requirements in HNF-47243 Rev. 0 CHPRC-ATL AIA for Laboratory Support for Beryllium-Asbestos Analysis 8-04-2010. In addition there may be other metals requested with the sample to be reported. This estimate is based on CHPRC estimate of delivery of approximately 30 samples per month from September 1, 2010 through September 30, 2011. It is ATL's understanding that 60% of the samples will be analyzed under PBS RL11. Therefore, this estimate assumes 576 samples will be received for ARRA RL11. ATL assumes that only 5 samples will be analyzed in a batch. This assumption is based on the potential for a limit of 5 samples in a shipment, or a limited number of samples allowed in the hood due to alpha activity. This calculates to 116 batches or sample delivery groups. Additional hours were added to the analysis time to account for pre-jobs and additional time needed for handling samples with high alpha activity. This estimate assumes that a separate report will be prepared for each group of samples delivered. That is, this estimate assumes that 116 reports will be prepared. In accordance with HNF-47243, preliminary results will be provided via electronic mail within 30 hrs, 72 hrs, or 5 calendar days of receipt of the samples, based on the priority level. The priority will be identified on the chain of custody form. CHPRC will provide radionuclide information and priority level of samples as early as possible on the day a delivery is expected. ATL will respond within 2 hours to let the CHPRC know if the samples can be accepted and reported within the requested time. In accordance with HNF-47243, the final report will be issued within 3 business days of delivery of the preliminary results. The format of the final report is presented in HNF-47243. Turnaround time will start after all sample receipt issues are resolved. Base Operations costs will be distributed to the customer on a monthly basis. The Base Operations costs provided reflect the portion of monthly costs that are associated with this work scope.

01.03.01.XX.01	CHPRC ARRA RL11Sodium carbonate	$ [redacted]		

This estimate for preparation of sodium carbonate solution for PFP decontamination of equipment was revised to include preparation of bottles of solid anhydrous sodium carbonate. The request, from the email received from [redacted] on 6/29/2010, was for preparation and shipment of 12 L of sodium carbonate. An email received from [redacted] on 9/13/2010 indicated 12 L of solution will be required approximately every 3 weeks. Therefore, this estimate assumes 18 batches of solution will be requested for FY2011. An email from [redacted] on 11/8/2010 indicated that 20 bottles each containing 65 g of anhydrous sodium carbonate will be requested every month from January to September 2011 (e.g., 9 shipments of 20 bottles each). The PFP point of contact will contact the 222S Standards Laboratory chemist to identify the quantities and need dates. Base Operations costs will be distributed to the customer on a monthly basis. The Base Operations costs provided reflect the portion of monthly costs that are associated with this work scope.

	TOTAL ARRA ~~PRC~~RL-11: PFP DEMO	$ [redacted]		

	BASE PRC: WRAP (RL13 BASE)	Direct Analytical Estimate	Base Ops Estimate	Total Cost
01.03.05.XX.01	CHPRC BASE RL13 Be Wipes	$ [redacted]		

This estimate is based on the requirements in HNF-47243 Rev. 0 CHPRC-ATL AIA for Laboratory Support for Beryllium-Asbestos Analysis 8-04-2010. In addition there may be other metals requested with the sample to be reported.

This estimate is based on CHPRC estimate of delivery of approximately 30 samples per month from September 1, 2010 through September 30, 2011. It is ATL's understanding that 20% of the samples will be analyzed under PBS RL13. Therefore, this estimate assumes 192 samples will be received for BASE RL13. ATL assumes that only 5 samples will be analyzed in a batch. This assumption is based on the potential for a limit of 5 samples in a shipment, or a limited number of samples allowed in the hood due to alpha activity. This calculates to 39 batches or sample delivery groups.

This estimate assumes that a separate report will be prepared for each group of samples delivered. That is, this estimate assumes that 39 reports will be prepared.

In accordance with HNF-47243, preliminary results will be provided via electronic mail within 30 hrs, 72 hrs, or 5 calendar days of receipt of the samples, based on the priority level. The priority will be identified on the chain of custody form. CHPRC will provide radionuclide information and priority level of samples as early as possible on the day a delivery is expected. ATL will respond within 2 hours to let the CHPRC know if the samples can be accepted and reported within the requested time. In accordance with HNF-47243, the final report will be issued within 3 business days of delivery of the preliminary results. The format of the final report is presented in HNF-47243. Turnaround time will start after all sample receipt issues are resolved. Base Operations costs will be distributed to the customer on a monthly basis. The Base Operations costs provided reflect the portion of monthly costs that are associated with this work scope.

	TOTAL BASE RL-13: WRAP	$ [redacted]		

	ARRA PRC: Balance of Site (RL40 ARRA)	Direct Analytical Estimate	Base Ops Estimate	Total Cost
01.03.02.XX.01	ARRA RL40 209E	$ [redacted]		

This estimate assumes that 2 sludge samples will be received in a single sample delivery group. Preliminary results will be provided via electronic mail upon request. The final report will be provided within 45 days of receipt of the last sample for the sample delivery group. The turnaround time will start after receipt of the last sample, after any sample receipt issues are resolved. The final report will consist of a case narrative, a data summary report of results, copies of the receipt documents, and significant communication records. Base Operations costs will be distributed to the customer on a monthly basis. The Base Operations costs provided reflect the portion of monthly costs that are associated with this work scope.

01.03.02.XX.01	ARRA RL40 Rail Cars	$ [redacted]		

This estimate is based on the requirements in the email from [redacted] on 6/29/2010 and [redacted] on 8/31/2010. This estimate assumes that 5 sludge samples will be received in a single sample delivery group. Based on customer communications, it is assumed that all 5 sludge samples will require processing/sub-sampling in the 11A hot-cell. Preliminary results will be provided via electronic mail upon request. The final report will be provided within 45 days of receipt of the last sample for the sample delivery group. The turnaround time will start after receipt of the last sample, after any sample receipt issues are resolved. The final report will consist of a case narrative, a data summary report of results, copies of the receipt documents, and significant communication records. Base Operations costs will be distributed to the customer on a monthly basis. The Base Operations costs provided reflect the portion of monthly costs that are associated with this work scope.

01.03.02.XX.01	ARRA RL40 Be Wipes	$ [redacted]		

This estimate is based on the requirements in HNF-47243 Rev. 0 CHPRC-ATL AIA for Laboratory Support for Beryllium-Asbestos Analysis 8-04-2010. In addition there may be other metals requested with the sample to be reported. This estimate is based on CHPRC estimate of delivery of approximately 80 samples per month from September 1, 2010 through September 30, 2011. It is ATL's understanding that 20% of the samples will be analyzed under PBS RL40. Therefore, this estimate assumes 192 samples will be received for ARRA RL40. ATL assumes that only 5 samples will be analyzed in a batch. This assumption is based on the potential for a limit of 5 samples in a shipment, or a limited number of samples allowed in the hood due to alpha activity. This calculates to 39 batches or sample delivery groups. Additional hours were added to the analysis time to account for pre-jobs and additional time needed for handling samples with high alpha activity.
This estimate assumes that a separate report will be prepared for each group of samples delivered. That is, this estimate assumes that 39 reports will be prepared. In accordance with HNF-47243, preliminary results will be provided via electronic mail within 30 hrs, 72 hrs, or 5 calendar days of receipt of the samples, based on the priority level. The priority will be identified on the chain of custody form. CHPRC will provide radionuclide information and priority level of samples as early as possible on the day a delivery is expected. ATL will respond within 2 hours to let the CHPRC know if the samples can be accepted and reported within the requested time. In accordance with HNF-47243, the final report will be issued within 3 business days of delivery of the preliminary results. The format of the final report is presented in HNF-47243. Turnaround time will start after all sample receipt issues are resolved. Base Operations costs will be distributed to the customer on a monthly basis. The Base Operations costs provided reflect the portion of monthly costs that are associated with this work scope.

01.03.02.04.01	ARRA RL40 Archive of U-Plant TK30 Samples	$ [redacted]		

This estimate is for continued archiving of 2 samples from U-Plant Cell 30 TK10. This estimate is based on the effort involved for maintaining samples in archive at 11A. This includes re-weighing jars, replacing caps (when necessary), updating the logbook, and issuing archive inventory letters. This is performed on an annual basis. Each year, the customer is required to provide justification for continued archive. Base Operations costs will be distributed to the customer on a monthly basis. The Base Operations costs provided reflect the portion of monthly costs that are associated with this work scope.

	TOTAL ARRA ~~PRC~~RL-40: BOS	$ [redacted]		

	BASE RL : PFP Demolition	Direct Analytical Estimate	Base Ops Estimate	Total Cost
01.01.04.04.01	BASE RL11 Archive of Z361 Samples	$ [redacted]		

This estimate is for continued archiving of 42 samples from tank 241-Z-361. This estimate is based on the effort involved for maintaining samples in archive at 11A. This includes re-weighing jars, replacing caps (when necessary), updating the logbook, and issuing archive inventory letters. This is performed on an annual basis. Each year, the customer is required to provide justification for continued archive. Base Operations costs will be distributed to the customer on a monthly basis. The Base Operations costs provided reflect the portion of monthly costs that are associated with this work scope.

	TOTAL Baseline ~~PRC~~RL-11: PFP DEMO	**$** [redacted]		

	Baseline PRC: Groundwater (RL 30)			Total Cost
01.01.02.XX.01	Inner Zone Supplemental Characterization	$	[redacted]	

This estimate is based on the requirements in DOE/RL-2007-02-VOL I Rev. 0 and supplemental electronic communication with Mike Neely. There were a number of tests in the email estimate request listed under the Other/Miscellaneous heading. These are tests that ATL does not perform and are not included in this estimate. This estimate assumes that 43 soil samples will be received for rad-screen analysis as 1 sample per sample delivery group. Rad-sceen analyses are assumed to be GEA and Total Activity. An additional 5 soil samples are expected for characterization analyses. These samples are expected to be delivered in sample delivery groups of 1 sample each, based on the activity being too high for WSCF or off-site labs. Rad-screen results will be provided as a data summary report issued via electronic mail. These results will be provided the next working day after receipt of the sample, unless a digestion is required prior to analysis due to the dose rate of the sample. Results for samples requiring digestion prior to analysis will be provided within 4 working days of sample receipt.
The DOE document referenced above requests Neptunium-237, Thorium-232, and isotopic Uranium analysis by alpha energy analysis (AEA). The 222-S Laboratory will provide those results by ICP/MS analysis. In addition, Radium-226 and Radium-228 are requested by AEA. The 222-S Laboratory will provide results by gamma energy analysis (GEA). The 222-S Laboratory does not perform Chromium (VI) (on soils), normal paraffin (grease; heavy oils), ethanol, ethylene glycol, NWTPH-kerosene, or NWTPH-diesel analyses. Particle size distribution, bulk density, and moisture content are tests that can be performed by WRPS APD group. These costs are NOT included in this estimate. This work must be contracted through the WRPS sample management office. Currently, the 222-S LIMS is not set up to report nitrate and nitrite as nitrogen. A request will be made to determine if a conversion can be performed prior to the HEIS upload. It is ATL's understanding that short holding time analyses (pH, conductivity, ammonium, Hg, cyanide, sulfide, VOCs, GROs, and SVOCs) will be performed as samples are received.
For analyses with 6 month holding times, a contingency is built in to account for a time lapse of more than 6 months between receipt of the first and last sample. For analyses with 6 month holding times (ICP metals and radionuclides), it is assumed that the samples will be analyzed in 2 analytical batches. For the remaining analyses, the customer requested that the samples be held until all 5 samples are received for the project to analyze together for batch efficiency. With this planning in mind, receipt of the 5 samples over a period of several months will be considered a single sample delivery group for reporting purposes. Preliminary results for characterization analyses will be provided via electronic mail upon request. The final report will be provided within 60 days of receipt of the last sample for the sample delivery group. The turnaround time will start after receipt of the last sample, after any sample receipt issues are resolved. The final report will consist of a case narrative, a data summary report of results, copies of the receipt documents, and significant communication records. Base Operations costs will be distributed to the customer on a monthly basis. The Base Operations costs provided reflect the portion of monthly costs that are associated with this work scope.

01.01.02.XX.01	Inner Zone U-Cribs	$	[redacted]

This estimate is based on the requirements in DOE/RL-2009-94 Internal Draft dated 10/11/2009 and supplemental electronic communication with [redacted] There were a number of tests in the email estimate request listed under the Other/Miscellaneous heading. These are tests that ATL does not perform and are not included in this estimate. This estimate assumes that 36 soil samples will be received for rad-screen analysis as 1 sample per sample delivery group. Rad-screen analyses are assumed to be GEA and Total Activity. An additional 14 soil samples are expected for characterization analyses. These samples are expected to be delivered in sample delivery groups of 1 sample each, based on the activity being too high for WSCF or off-site labs. Rad-screen results will be provided as a data summary report issued via electronic mail. These results will be provided the next working day after receipt of the sample, unless a digestion is required prior to analysis due to the dose rate of the sample. Results for samples requiring digestion prior to analysis will be provided within 4 working days of sample receipt.
The DOE document referenced above requests isotopic Uranium analysis by alpha energy analysis (AEA) or 6012 ICP/MS. The 222-S Laboratory will provide those results by EPA SW846 Method 6020A ICP/MS. Total Uranium results will be provided by ICP Method 6010C. The calcium carbonate analysis will be performed using the persulfate TIC/TOC analysis. The 222-S Laboratory currently does not perform analysis for hydrocarbon identification and NWTPH-diesel range. Particle size distribution, bulk density, and moisture content are tests that can be performed by WRPS APD group. These costs are NOT included in this estimate. This work must be contracted through the WRPS sample management office. Currently, the 222-S LIMS is not set up to report nitrate and nitrite as nitrogen. A request will be made to determine if a conversion can be performed prior to the HEIS upload.
It is ATL's understanding that short holding time analyses (pH, conductivity, ammonium, Hg, cyanide, sulfide, VOCs, GROs, and SVOCs) will be performed as samples are received. For analyses with 6 month holding times, a contingency is built in to account for a time lapse of more than 6 months between receipt of the first and last sample. For analyses with 6 month holding times (ICP metals and radionuclides), it is assumed that the samples will be analyzed in multiple analytical batches. For the remaining analyses, the customer requested that the samples be held until all 5 samples are received for the project to analyze together for batch efficiency. With this planning in mind, receipt of the 5 samples over a period of several months will be considered a single sample delivery group for reporting purposes. Preliminary results for characterization analyses will be provided via electronic mail upon request. The final report will be provided within 60 days of receipt of the last sample for the sample delivery group. The turnaround time will start after receipt of the last sample, after any sample receipt issues are resolved. The final report will consist of a case narrative, a data summary report of results, copies of the receipt documents, and significant communication records. Base Operations costs will be distributed to the customer on a monthly basis. The Base Operations costs provided reflect the portion of monthly costs that are associated with this work scope.

01.01.02.XX.01	Prepare Sodium Thiosulfate Solution for Ground Water	$ [redacted]		
This estimate is for preparation of sodium Thiosulfate solution for Ground Water sampling. The request, from the email received from [redacted] on 10/6/2010, was for preparation and shipment of one 500 mL bottle of sodium Thiosulfate. It is ATL's understanding that this is a one-time activity for FY2011. Base Operations costs will be distributed to the customer on a monthly basis. The Base Operations costs provided reflect the portion of monthly costs that are associated with this work scope.				
	TOTAL BASE ~~RL13~~RL30: Soils & GW	$ [redacted]		
	BASE RL40: Balance of Site			**Total Cost**
01.01.03.04.01	FY11 Archive of U361 Samples	$ [redacted]		
This estimate is for continued archiving of 30 samples from tank 241-U-361. This estimate is based on the effort involved for maintaining samples in archive at 11A. This includes re-weighing jars, replacing caps (when necessary), updating the logbook, and issuing archive inventory letters. This is performed on an annual basis. Each year, the customer is required to provide justification for continued archive. Base Operations costs will be distributed to the customer on a monthly basis. The Base Operations costs provided reflect the portion of monthly costs that are associated with this work scope.				
01.01.03.XX.01	BASE RL40 PUREX Stack Condensate Sample	$ [redacted]		
This estimate is based on the requirements in the PUREX Stack Condensate Sample Plan summary email received from [redacted] on 11/4/2010. This estimate assumes that ATL will receive 3 liquid samples taken from stack condensate Tank V11-216-TK-2 at PUREX. This estimate assumes that the samples will be low level radioactivity and will not require special alpha sample handling. It is assumed that the three samples will be received in one sample delivery group with one final report. Preliminary results can be provided upon request, as they become available. The requested turnaround time for the final report is 30 days. The final report will consist of a case narrative, a data summary report of the results (with quality control results included), copies of the receipt paperwork, and any pertinent communication records. It is ATL's understanding that a QA review will not be required for this report. Turnaround time will start after all sample receipt issues are resolved. Base Operations costs will be distributed to the customer on a monthly basis. The Base Operations costs provided reflect the portion of monthly costs that are associated with this work scope.				
	TOTAL Baseline ~~PRC~~RL-40: BOS	$ [redacted]		
	Analysis Totals	$		
	GRAND TOTAL			

The signatures below signify agreement to the estimates and funding impacts identified in this Service Level Agreement with ATL.

[redacted] Date: 11/11/2010
VP –PFP Project Closure (RL-11)

[redacted] Date: 10/26/2010
VP – Soil & Ground Water Remediation (RL-30)

[redacted] Date: 11/03/2010
VP –Waste and Fuels Management Project (RL-13)

[redacted] Date: 11/10/2010
VP –D&D (RL-40)