Jackson Ceramix
Uncertainties for which sampling is required (i.e., to be incorporated into Work Plan)

No.	Uncertainty	Recommended Resolution	Type of information required	Quality	Quantity	Responsibility	Priority
1	Acid mine drainage upgradient?	Include during initial surface water sample collection/analysis	Area surface water pH, During wet and dry events? Sulfur and Boron isotope geochemistry?	YSI, Horiba, multiple parameter surface water probe. ASTM University	TBD Determine necessity?	CDM R3 (Bruce, et al) Tetra Tech	M
2	Ecological toxicity? Bioavailability?	Observation of earthworm locations in relation to Pb concentrations Earthworm collection	Laboratory toxicity testing. ASTM method Analysis of corresponding soil via AA, ICP, or XRF?	ASTM Get copy of method. SW-846 XRF?	Transect across concentration gradient	CDM R3 (Bruce, Kathy, et al)	H
3	XRF and ICP correlations	TAL (Metals) XRF (Unit?) Encourage CDM to evaluate newer hand held units to allow real time measurement in the field.	Demonstration of method applicability. Sample prep	SW846 or CLP. XRF CDM SOP?	10-20% of total XRF samples. Front loaded QC during DMA	CDM, EPA HQ	H

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4	Playground and Ball Field Sampling	TCL TAL (Define) Justify	TCL TAL XRF?	SW846 or CLP. XRF CDM SOP	1-3 transects 100 ft centers? What depths?	R3 project team, CDM Suggestions HQ , Tetra Tech	M
5	Lagoon Sampling	Work out sampling strategy R3, HQ, Tetra Tech, CDM	TCL TAL XRF?	SW846 or CLP. XRF CDM SOP	Grid Lagoon 10x10? Work out with R3 CDM	R3, HQ, Tetra Tech, CDM	H
6	Extent of Pb contamination in wetlands area. Not bounded particularly in the South/Southeast portion of the wetlands.	Work out sampling strategy R3, HQ, Tetra Tech, CDM	TAL and XRF.	SW846 or CLP. XRF CDM SOP?	Work out with HQ, R3 and CDM	HQ, R3 and CDM	H
7	Piezometric Surface?	Initial gauging event of existing wells	Depth to water, well construction and survey information? Temporary wells during RI?	Water level meter.	15 existing wells	R3, CDM HQ, Tetra Tech	M

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8	Groundwater to surface water interactions?	PDB bags in area of chlorinated solvent impacts?	TCL	SW-846 8260	TBD	HQ, Tetra Tech	M
9	Condition of existing GW monitoring wells?	CDM redevelopment and initial round of sampling?	TCL TAL Define and justify sampling parameters	SW-846 8260 MNA parameters? Define	9 wells in wetlands 6 in former plant area	CDM R3, HQ and Tetra Tech	H
10	Are existing wells screened in the appropriate intervals?	Review well completion diagrams, borelogs, and historical data.	Use to Refine preliminary CSM.		9 wells in wetlands 6 in former plant area	CDM Tetra Tech	M
11	If we are considering biosolids as a remedy what parameters should we be evaluating?	Look into feasibility, then local availability prior to collecting design parameters.	Parameters and methods.	TBD based on need.	TBD based on need.	HQ	L
12	Sampling of Sandy Lick SW and sediment?	Collect limited samples during initial investigation. If impacts potentially attributable to the site are identified then expand sampling?	TCL TAL Define and justify sampling parameters. Can we limit initial sampling to areas most likely impacted by the site?	SW-846 or CLP	TBD	R3 project team	M