

BID2020-65 ENVIRONMENTAL REMEDIATION OF LNAPL SOIL AND GROUNDWATER AT THE FORMER FEDERATED METALS SITE LOCATED AT 300 ENTERPRISE AVENUE, TRENTON, NJ FOR THE CITY OF TRENTON, DPT OF HED BID OPENED 10/7/2020 AT 11:00AM

FEDERATED METALS: SOIL AND GROUNDWATER REMEDIATION (LNAPL)
REVISED COST SPREADSHEET FOR SUBMITTAL PER ADDENDUM #1

ORIGINAL

Bid Item No.	Description	Units	Estimated ⁽¹⁾ Quantity	Unit Price (\$)	Total Price (\$)
-----------------	-------------	-------	--------------------------------------	--------------------	---------------------

1 Pre-Remedial Activities

1. QAPP/SAPP (EPA compliant; draft and final)
2. Health & Safety Plan (OSHA HAZWOPER)
3. Permits and Approvals (City)
4. Kickoff meeting: project and site manager

LS			\$800.00
LS			\$650.00
LS			\$750.00
LS			\$750.00

task subtotal

\$2,950.00

2 Excavation, stockpiling, test pits, interim groundwater remediation, construction

1. Mobilization/Demobilization
2. Breaking, Excavation and Stockpiling: Concrete slabs
3. Excavation and Stockpiling: overburden for reuse (0.0 to 7.0 feet bgs)
4. Excavation and Stockpiling: smear and saturated zone, petroleum-contaminated soil (~7.0 to ~15 feet bgs)
5. Interim groundwater extraction (vac truck and/or other equipment, and operator/crew over 2 days)
- 6a. Site restoration: backfilling with overburden; grading
- 6b. Site restoration: Covering backfilled area with topsoil. Grade and seed

LS			\$14,000.00
YD	40	50.00	\$2,000.00
YD	1410	5.00	\$7,050.00
YD	2300	10.50	\$24,150.00
Days	2	2100	\$4,200.00
YD	1410	4.00	\$5,640.00
sq. ft.	8,900	.61	\$5,424.00

task subtotal

\$62,464.00

3 Disposal

1. Contaminated soil
2. Waste Classification: Contaminated soil
3. Heavy petroleum LNAPL and water
4. Waste from decontamination (if required)

NT	3100	49.00	\$151,900.00
LS			\$2,800.00
Gal	10000	.49	\$4900.00
LS			\$875.00

task subtotal

\$160,475.00

4 Post-remediation sampling

1. Post-excavation soil sampling for EPH and laboratory analysis
2. Post-excavation soil sampling contingency for PAH and laboratory analysis

EA	20	400.00	\$8,000.00
EA	5	150.00	\$750.00

task subtotal

\$8,750.00

5 Reporting (Remedial Action Report)

LS			\$6,100.00
----	--	--	------------

SUBTOTAL (Tasks 1 through 5)

\$240,744.00

6 Project Management: scheduling, workscope implementation, billing (maximum 5% of subtotal of tasks 1 through 5)

LS			\$3,600.00
----	--	--	------------

TOTAL (BID ITEMS 1-6)

\$244,344.00

OPTIONAL TASKS

Alt-1 Monitoring Well Installation and Gauging

1. Well Installation (one, 4-inch diameter, PVC well, installed up to 15 feet deep with stick up mount, professionally-surveyed, forms)
2. Well Gauging (10 wells; monthly for two months)

LS			\$3,500.00
LS			\$2,000.00

task subtotal

\$5,500.00

Alt-2 Concrete sampling and disposal

1. Concrete: Characterization
2. Concrete: Existing and recently stockpiled

LS	1		\$1,500.00
NT	700	27.00	\$18,900.00

task subtotal

\$20,700.00

Alt-3 Disposal of Soil as "Hazardous" for lead

1. Contaminated soil: Hazardous

NT	3100	189.00	\$585,900.00
----	------	--------	--------------

TOTAL (INCLUDING OPTIONAL TASKS)

\$866,444.00

**EXCEPTIONS
(IF NONE, PLEASE NOTE)**

Line item 2.5 includes 8 hrs/day of vacuum truck services

Line item 2.6a includes RCP material as per approved SEC Plan

Line item 3.1 assumes soils will be accepted to the proposed facility

ALT-3 price assumes soils are RCRC hazardous for D008 only

ALT-3 assumes no UHC exists and meets 10 times treatment standards

FEDERATED METALS: SOIL AND GROUNDWATER REMEDIATION (LNAPL)
REVISED COST SPREADSHEET FOR SUBMITTAL PER ADDENDUM #1

2

Bid Item No.	Description	Units	Estimated ⁽¹⁾ Quantity	Unit Price (\$)	Total Price (\$)
1	Pre-Remedial Activities				
1.1	QAPP/SAPP (EPA compliant; draft and final)	LS		\$500.00	
1.2	Health & Safety Plan (OSHA HAZWOPER)	LS		\$300.00	
1.3	Permits and Approvals (City)	LS		\$120.00	
1.4	Kickoff meeting: project and site manager	LS		\$450.00	
	task subtotal				\$1,370.00
2	Excavation, stockpiling, test pits, interim groundwater remediation, construction				
2.1	Mobilization/Demobilization	LS		\$11,280.00	
2.2	Breaking, Excavation and Stockpiling: Concrete slabs	YD	40	\$70.00	\$2,800.00
2.3	Excavation and Stockpiling: overburden for reuse (0.0 to 7.0 feet bgs)	YD	1410	\$5.00	\$7,050.00
2.4	Excavation and Stockpiling: smear and saturated zone, petroleum-contaminated soil (~7.0 to ~15 feet bgs)	YD	2300	\$7.50	\$17,250.00
2.5	Interim groundwater extraction (vac truck and/or other equipment, and operator/crew over 2 days)	Days	2	\$1,800.00	\$3,600.00
2.6	6a. Site restoration: backfilling with overburden; grading	YD	1410	\$5.00	\$7,050.00
2.7	6b. Site restoration: Covering backfilled area with topsoil. Grade and seed	sq. ft.	8,900	\$2.00	\$17,800.00
	task subtotal				\$66,830.00
3	Disposal				
3.1	Contaminated soil	NT	3100	\$59.00	\$182,900.00
3.2	Waste Classification: Contaminated soil	LS			\$2,200.00
3.3	Heavy petroleum LNAPL and water	Gal	10000	\$0.58	\$5,800.00
3.4	Waste from decontamination (if required)	LS			\$1,000.00
	task subtotal				\$191,900.00
4	Post-remediation sampling				
4.1	Post-excavation soil sampling for EPH and laboratory analysis	EA	20	\$82.50	\$1,650.00
4.2	Post-excavation soil sampling contingency for PAH and laboratory analysis	EA	5	\$103.12	\$515.60
	task subtotal				\$2,165.00
5	Reporting (Remedial Action Report)	LS			\$3,000.00
	SUBTOTAL (Tasks 1 through 5)				\$265,265.60
6	Project Management: scheduling, workscope implementation, billing (maximum 5% of subtotal of tasks 1 through 5)	LS			\$2,200.00
	TOTAL (BID ITEMS 1-6)				\$267,465.60
OPTIONAL TASKS					
Alt-1	Monitoring Well Installation and Gauging				
1.1	Well Installation (one, 4-inch diameter, PVC well, installed up to 15 feet deep with stick up mount, professionally-surveyed, forms)	LS			\$5,150.00
1.2	Well Gauging (10 wells; monthly for two months)	LS			\$1,800.00
	task subtotal				\$6,950.00
Alt-2	Concrete sampling and disposal				
1.1	Concrete: Characterization	LS	1		\$550.00
1.2	Concrete: Existing and recently stockpiled	NT	700	\$70.00	\$49,000.00
	task subtotal				\$49,550.00
Alt-3	Disposal of Soil as "Hazardous" for lead				
1.1	Contaminated soil: Hazardous	NT	3100	\$179.19	\$555,489.00
	TOTAL (INCLUDING OPTIONAL TASKS)				\$879,454.60

SECTION 6: COST ESTIMATE

The RMS cost to complete the RA **Tasks 1** through **6** is **\$267,465.60**. The cost sheet is provided on the following page followed by our detailed rate sheet. Work will be performed in accordance with mutually agreed upon terms and conditions to be negotiated at the time of project award.

This fee proposal includes RMS's LSRP, staff rates, subcontractor rates and schedule of miscellaneous charges to meet the City's objectives outlined in the RFP. Our rates for this project are provided below.

Billing Title	Billing Rate/Hour
Administrative Support Staff	\$60.00
Staff Environmental Scientist	\$80.00
Senior Environmental Scientist	\$90.00
Principal Environmental Scientist	\$120.00
Licensed Site Remediation Professional (LSRP)	\$150.00

Contracted Services

Includes subconsultants, contracted labor, subprofessionals, subcontractors

.....Invoice Cost + 10%

Direct Expenses

Disbursements to agencies, vendors and suppliers including equipment; interstate transportation; permit applications, review, and similar fees; printing, plotting, reproduction, binding and other graphic services outside computer services; title, research, and data services; courier and express services; project field office expenses; and out-of-state telephone costs

.....Invoice Cost

Other Charges

Mileage.....Commensurate with IRS Guidelines

Travel and Subsistence.....Invoice Cost

Field Vehicles.....\$75/Day

Schedule of Professional Fees

Personnel

Licensed Site Remediation Professional (LSRP)	\$ 150/hour
Principals/Hydrogeology/Engineering	\$ 120/hour
Senior Hydrogeologists/Engineers/Project Manager	\$ 90/hour
Project Hydrogeologists/Computer Modeling	\$ 85/hour
Specialized Computer Work (AutoCAD/GIS)	\$ 90/hour
Staff Geologists/Engineers	\$ 80/hour
Technicians	\$ 70/hour
Administration	\$ 60/hour

Direct Expenses

PID	\$ 90/day
Pump & Generator	\$ 300/day
Oil/Water Probe/Hydroprobe	\$ 70/day
Survey Equipment	\$ 60/day
HVR Equipment	\$ 100/day
Submersible Pump	\$ 80/day
Hand Auger	\$ 40/day
Manometer & Anemometer	\$ 100/day
Peristaltic Pump	\$ 60/day
Work Truck Rental	\$ 70/day
Generator Use	\$ 100/day
Distilled Water, Alconox & Gloves	\$ 4.00/well
Water Quality Meter	\$ 120/day
Hammer Drill	\$ 100/day
Dissolved Oxygen Meter	\$ 70/day
Vacuum Pump	\$ 40/day
Transducer	\$ 125/day
Carbon Filter	\$ 160/event
Sampling Bailers	\$ 7/bailer
Bailing Rope	\$ 15/100ft
Twine	\$ 7/100 ft
Mileage	\$ 0.65/mile
Absorbent Sock	\$ 13/sock
55-Gallon Drum	\$ 125/drum
Tubing	\$ 0.75/ft
Vapor Pin	\$ 125/pin
Chemical Analysis	Cost + 10%
Subcontractors	Cost + 10%

Expert Testimony and Related Work

LSRP	\$260/hour or \$2,080/diem
Principals	\$240/hour or \$1,920/diem
Senior Hydrogeologists/Engineers	\$185/hour or \$1,480/diem
Project Hydrogeologists/Engineers	\$160/hour or \$1,280/diem

*Field work for these projects is charged in half day increments. Overtime is charged at 1.5 times the regular rate, and weekend time at 2 times regular rate. Chargeable time commences when personnel leave the office.

FEDERATED METALS: SOIL AND GROUNDWATER REMEDIATION (LNAPL)
REVISED COST SPREADSHEET FOR SUBMITTAL PER ADDENDUM #1

③

Bid Item No.	Description	Units	Estimated ⁽¹⁾ Quantity	Unit Price (\$)	Total Price (\$)
1	Pre-Remedial Activities				
1.1	QAPP/SAPP (EPA compliant; draft and final)	LS		1,000.00	
1.2	Health & Safety Plan (OSHA HAZWOPER)	LS		500.00	
1.3	Permits and Approvals (City)	LS		100.00	
1.4	Kickoff meeting: project and site manager	LS		1,000.00	
	task subtotal				2,600.00
2	Excavation, stockpiling, test pits, interim groundwater remediation, construction				
2.1	Mobilization/Demobilization	LS		17,500.00	
2.2	Breaking, Excavation and Stockpiling: Concrete slabs	YD	40	50.00	2,000.00
2.3	Excavation and Stockpiling: overburden for reuse (0.0 to 7.0 feet bgs)	YD	1410	6.00	8,460.00
2.4	Excavation and Stockpiling: smear and saturated zone, petroleum-contaminated soil (~7.0 to ~15 feet bgs)	YD	2300	12.00	27,600.00
2.5	Interim groundwater extraction (vac truck and/or other equipment, and operator/crew over 2 days)	Days	2	2,500.00	5,000.00
2.6a	Site restoration: backfilling with overburden; grading	YD	1410	6.00	8,460.00
2.6b	Site restoration: Covering backfilled area with topsoil. Grade and seed	sq. ft.	8,900	1.00	8,900.00
	task subtotal				77,920.00
3	Disposal				
3.1	Contaminated soil	NT	3100	53.00	164,310.00
3.2	Waste Classification: Contaminated soil	LS			2,750.00
3.3	Heavy petroleum LNAPL and water	Gal	10000	2.00	20,000.00
3.4	Waste from decontamination (if required)	LS			5,000.00
	task subtotal				192,060.00
4	Post-remediation sampling				
4.1	Post-excavation soil sampling for EPH and laboratory analysis	EA	20	345.00	6,900.00
4.2	Post-excavation soil sampling contingency for PAH and laboratory analysis	EA	5	100.00	500.00
	task subtotal				7,400.00
5	Reporting (Remedial Action Report)	LS			2,300.00
	SUBTOTAL (Tasks 1 through 5)				2,300.00
6	Project Management: scheduling, workscope implementation, billing (maximum 5% of subtotal of tasks 1 through 5)	LS			2,000.00
	TOTAL (BID ITEMS 1-6)				284,280.00
	OPTIONAL TASKS				
Alt-1	Monitoring Well Installation and Gauging	LS			5,000.00
1.1	Well Installation (one, 4-inch diameter, PVC well, installed up to 15 feet deep with stick up mount, professionally-surveyed, forms)	LS			1,000.00
1.2	Well Gauging (10 wells; monthly for two months)				
	task subtotal				6,000.00
Alt-2	Concrete sampling and disposal	LS	1		1,700.00
1.1	Concrete: Characterization	NT	700	46.00	32,200.00
1.2	Concrete: Existing and recently stockpiled				
	task subtotal				33,900.00
Alt-3	Disposal of Soil as "Hazardous" for lead	NT	3100	200.00	620,000.00
1.1	Contaminated soil: Hazardous				
	TOTAL (INCLUDING OPTIONAL TASKS)				904,280.00

FEDERATED METALS: SOIL AND GROUNDWATER REMEDIATION (LNAPL)
REVISED COST SPREADSHEET FOR SUBMITTAL PER ADDENDUM #1



Bid Item No.	Description	Units	Estimated ^{**} Quantity	Unit Price (\$)	Total Price (\$)
1	Pre-Remedial Activities				
	1. QAPP/SAPP (EPA compliant; draft and final)	LS		\$ 3,366.00	
	2. Health & Safety Plan (OSHA HAZWOPER)	LS		\$ 895.00	
	3. Permits and Approvals (City)	LS		\$ 1,183.00	
	4. Kickoff meeting: project and site manager	LS		\$ 7,863.00	
	task subtotal				
2.	Excavation, stockpiling, test pits, interim groundwater remediation, construction				\$ 13,307.00
1.	Mobilization/Demobilization	LS		\$ 18,634.00	
2.	Breaking, Excavation and Stockpiling: Concrete slabs	YD	40	\$ 180.00	\$ 7,200.00
3.	Excavation and Stockpiling: overburden for reuse (0.0 to 7.0 feet bgs)	YD	1410	\$ 13.30	\$ 18,753.00
4.	Excavation and Stockpiling: smear and saturated zone, petroleum-contaminated soil (~7.0 to ~15 feet bgs)	YD	2300	\$ 14.00	\$ 32,200.00
5.	Interim groundwater extraction (vac truck and/or other equipment, and operator/crew over 2 days)	Days	2	\$ 4,850.60	\$ 9,701.20
6a.	Site restoration: backfilling with overburden; grading	YD	1410	\$ 11.40	\$ 16,074.00
6b.	Site restoration: Covering backfilled area with topsoil. Grade and seed	sq. ft.	8,900	\$ 1.40	\$ 12,460.00
	task subtotal				\$ 115,022.20
3.	Disposal	NT	3100	\$ 47.60	\$ 147,560.00
1.	Contaminated soil	LS		\$ 5,437.00	
2.	Waste Classification: Contaminated soil	Gal	10000	\$ 0.42	\$ 4,200.00
3.	Heavy petroleum LNAPL and water	LS		\$ 2,761.20	
4.	Waste from decontamination (if required)				
	task subtotal				\$ 159,958.20
4.	Post-remediation sampling	EA	20	\$ 207.38	\$ 4,147.50
1.	Post-excavation soil sampling for EPH and laboratory analysis	EA	5	\$ 99.75	\$ 498.75
2.	Post-excavation soil sampling contingency for PAH and laboratory analysis				
	task subtotal				\$ 4,646.25
5.	Reporting (Remedial Action Report)	LS		\$ 9,164	
	SUBTOTAL (Tasks 1 through 5)				\$ 302,097.65
6.	Project Management: scheduling, workscope implementation, billing (maximum 5% of subtotal of tasks 1 through 5)	LS		\$ 11,730	
	TOTAL (BID ITEMS 1-6)				\$ 313,828
	OPTIONAL TASKS				
Alt-1	Monitoring Well Installation and Gauging				
1.	Well Installation (one, 4-inch diameter, PVC well, installed up to 15 feet deep with stick up mount, professionally-surveyed, forms)	LS		\$ 5,118.00	
2.	Well Gauging (10 wells; monthly for two months)	LS		\$ 2,460.00	
	task subtotal				\$ 7,578.00
Alt-2	Concrete sampling and disposal				
1.	Concrete: Characterization	LS	I	\$ 1,235.00	
2.	Concrete: Existing and recently stockpiled	NT	700	\$ 29.90	\$ 20,930.00
	task subtotal				\$ 22,165.00
Alt-3	Disposal of Soil as "Hazardous" for lead				
1.	Contaminated soil: Hazardous	NT	3100	\$ 203.70	\$ 631,470.00
	TOTAL (INCLUDING OPTIONAL TASKS)				\$ 975,040.65

FEDERATED METALS: SOIL AND GROUNDWATER REMEDIATION (LNAPL)
REVISED COST SPREADSHEET FOR SUBMITTAL PER ADDENDUM #1

50

Bid Item No.	Description	Units	Estimated ⁽¹⁾ Quantity	Unit Price (\$)	Total Price (\$)
1	Pre-Remedial Activities				
1.1	QAPP/SAPP (EPA compliant; draft and final)	LS			\$3,980
1.2	Health & Safety Plan (OSHA HAZWOPER)	LS			\$590
1.3	Permits and Approvals (City)	LS			\$720
1.4	Kickoff meeting: project and site manager	LS			\$1,760
	task subtotal				\$7,050
2	Excavation, stockpiling, test pits, interim groundwater remediation, construction				
2.1	Mobilization/Demobilization	LS			\$12,775
2.2	Breaking, Excavation and Stockpiling: Concrete slabs	YD	40	\$51.50	\$2,060
2.3	Excavation and Stockpiling: overburden for reuse (0.0 to 7.0 feet bgs)	YD	1410	\$5.55	\$7,825
2.4	Excavation and Stockpiling: smear and saturated zone, petroleum-contaminated soil (~7.0 to ~15 feet bgs)	YD	2300	\$9.53	\$21,925
2.5	Interim groundwater extraction (vac truck and/or other equipment, and operator/crew over 2 days)	Days	2	\$1,437.50	\$2,875
2.6a	Site restoration: backfilling with overburden; grading	YD	1410	\$5.55	\$7,825
2.6b	Site restoration: Covering backfilled area with topsoil. Grade and seed *RCA instead of topsoil and seed as per SESC Plan	sq. ft.	8,900	\$0.38	\$3,380
	task subtotal				\$58,665
3	Disposal				
3.1	Contaminated soil	NT	3100	\$50.94	\$157,910
3.2	Waste Classification: Contaminated soil	LS			\$7,785
3.3	Heavy petroleum LNAPL and water	Gal	10000	\$0.70	\$7,000
3.4	Waste from decontamination (if required)	LS			\$2,700
	task subtotal				\$175,395
4	Post-remediation sampling				
4.1	Post-excavation soil sampling for EPH and laboratory analysis	EA	20	\$192.00	\$3,840
4.2	Post-excavation soil sampling contingency for PAH and laboratory analysis	EA	5	\$180.00	\$900
	task subtotal				\$4,740
5	Reporting (Remedial Action Report)	LS			\$4,800
	SUBTOTAL (Tasks 1 through 5)				\$4,800
6	Project Management: scheduling, workscope implementation, billing (maximum 5% of subtotal of tasks 1 through 5)	LS			\$6,000
	TOTAL (BID ITEMS 1-6)				\$256,650
OPTIONAL TASKS					
Alt-1	Monitoring Well Installation and Gauging				
1.1	Well Installation (one, 4-inch diameter, PVC well, installed up to 15 feet deep with stick up mount, professionally surveyed, forms)	LS			\$5,270
1.2	Well Gauging (10 wells; monthly for two months)	LS			\$1,060
	task subtotal				\$6,330
Alt-2	Concrete sampling and disposal				
1.1	Concrete: Characterization	LS	1		\$1,700
1.2	Concrete: Existing and recently stockpiled *Assumes Non-Haz Disposal	NT	700	\$52.86	\$37,000
	task subtotal				\$38,700
Alt-3	Disposal of Soil as "Hazardous" for lead				
1.1	Contaminated soil: Hazardous *Cost for Transport and Disposal Only	NT	3100	\$226.80	\$703,080
	TOTAL (INCLUDING OPTIONAL TASKS)				\$1,004,760

6

Bid Item No.	Description	Units	Estimated ⁽¹⁾ Quantity	Unit Price (\$)	Total Price (\$)
1	Pre-Remedial Activities				
1.	QAPP/SAPP (EPA compliant; draft and final)	LS	1	2,000	2,000
2.	Health & Safety Plan (OSHA HAZWOPER)	LS	1	1,000	1,000
3.	Permits and Approvals (City)	LS	1	500	500
4.	Kickoff meeting: project and site manager	LS	1	1,600	1,600
	task subtotal				5,100
2	Excavation, stockpiling, test pits, interim groundwater remediation, construction				
1.	Mobilization/Demobilization	LS	1	15,000	15,000
2.	Breaking, Excavation and Stockpiling: Concrete slabs	YD	40	205	8,200
3.	Excavation and Stockpiling: overburden for reuse (0.0 to 7.0 feet bgs)	YD	1410	9	12,690
4.	Excavation and Stockpiling: smear and saturated zone, petroleum-contaminated soil (-7.0 to ~15 feet bgs)	YD	2300	7	16,100
5.	Interim groundwater extraction (var truck and/or other equipment, and operator/crew over 2 days)	Days	2	7,000	14,000
6a.	Site restoration: backfilling with overburden; grading	YD	1410	3	4,230
6b.	Site restoration: Covering backfilled area with topsoil. Grade and seed	sq. ft.	8,900	1	8,900
	task subtotal				79,120
3	Disposal				
1.	Contaminated soil	NT	3100	48	148,800
2.	Waste Classification: Contaminated soil	LS	1	4,200	4,200
3.	Heavy petroleum LNAPL and water	Gal	10000	1,90	19,000
4.	Waste from decontamination (if required)	LS	1	2,000	2,000
	task subtotal				174,000
4	Post-remediation sampling				
1.	Post-excavation soil sampling for EPH and laboratory analysis	EA	20	260	5,200
2.	Post-excavation soil sampling contingency for PAH and laboratory analysis	EA	5	150	750
	task subtotal				5,950
5	Reporting (Remedial Action Report)	LS	1	5,200	5,200
	SUBTOTAL (Tasks 1 through 5)				269,370
6	Project Management: scheduling, workscope implementation, billing (maximum 5% of subtotal of tasks 1 through 5)	LS			10,775
	TOTAL (BID ITEMS 1-6)				280,145
	OPTIONAL TASKS				
Alt-1	Monitoring Well Installation and Gauging				
1.	Well Installation (one, 4-inch-diameter, PVC well, installed up to 15 feet deep with stick up mount, professionally-surveyed, forms)	LS	1	4,500	4,500
2.	Well Gauging (10 wells; monthly for two months)	LS	2	650	1,300
	task subtotal				5,800
Alt-2	Concrete sampling and disposal				
1.	Concrete: Characterization	LS	1	3,500	3,500
2.	Concrete: Existing and recently stockpiled	NT	700	62	43,400
	task subtotal				46,900
Alt-3	Disposal of Soil as "Hazardous" for lead				
1.	Contaminated soil: Hazardous	NT	3100	225	697,500
	TOTAL (INCLUDING OPTIONAL TASKS)				1,030,345

FEDERATED METALS: SOIL AND GROUNDWATER REMEDIATION (LNAPL)
REVISED COST SPREADSHEET FOR SUBMITTAL PER ADDENDUM #1

(P)

Bid Item No.	Description	Units	Estimated ⁽¹⁾ Quantity	Unit Price (\$)	Total Price (\$)
1	Pre-Remedial Activities				
1.1	QAPP/SAPP (EPA compliant; draft and final)	LS			2,750
1.2	Health & Safety Plan (OSHA HAZWOPER)	LS			1,920
1.3	Permits and Approvals (City)	LS			825
1.4	Kickoff meeting: project and site manager	LS			1,000
	task subtotal				6,495
2	Excavation, stockpiling, test pits, interim groundwater remediation, construction				
2.1	Mobilization/Demobilization	LS			20,966
2.2	Breaking, Excavation and Stockpiling: Concrete slabs	YD	40	23.96	958
2.3	Excavation and Stockpiling: overburden for reuse (0.0 to 7.0 feet bgs)	YD	1410	23.96	33,784
2.4	Excavation and Stockpiling: smear and saturated zone, petroleum-contaminated soil (~7.0 to ~15 feet bgs)	YD	2300	21.40	49,220
2.5	Interim groundwater extraction (vac truck and/or other equipment, and operator/crew over 2 days)	Days	2	5,681	11,362
2.6a	Site restoration: backfilling with overburden; grading	YD	1410	18.21	25,353
2.6b	Site restoration: Covering backfilled area with topsoil. Grade and seed	sq. ft.	8,900	0.88	7,863
	task subtotal				149,506
3	Disposal				
3.1	Contaminated soil	NT	3100	47.025	145,777.50
3.2	Waste Classification: Contaminated soil	LS			5500
3.3	Heavy petroleum LNAPL and water	Gal	10000	0.78	8,580
3.4	Waste from decontamination (if required)	LS			800
	task subtotal				160,657.50
4	Post-remediation sampling				
4.1	Post-excavation soil sampling for EPH and laboratory analysis	EA	20	120	2,640
4.2	Post-excavation soil sampling contingency for PAH and laboratory analysis	EA	5	100	550
	task subtotal				3,190
5	Reporting (Remedial Action Report)	LS			7,700
	SUBTOTAL (Tasks 1 through 5)				7,700
6	Project Management: scheduling, workscope implementation, billing (maximum 5% of subtotal of tasks 1 through 5)	LS			6,080
	TOTAL (BID ITEMS 1-6)				6,080
OPTIONAL TASKS					
Alt-1	Monitoring Well Installation and Gauging				
1.1	Well Installation (one, 4-inch diameter, PVC well, installed up to 15 feet deep with stick up mount, professionally-surveyed, forms)	LS			9,900
1.2	Well Gauging (10 wells; monthly for two months)	LS			5,280
	task subtotal				15,180
Alt-2	Concrete sampling and disposal				
1.1	Concrete: Characterization	LS	1		1,100
1.2	Concrete: Existing and recently stockpiled	NT	700	94.54	66,178
	task subtotal				67,278
Alt-3	Disposal of Soil as "Hazardous" for lead				
1.1	Contaminated soil: Hazardous	NT	3100	199.28	617,768
	TOTAL (INCLUDING OPTIONAL TASKS)				1,033,854.50

FEDERATED METALS: SOIL AND GROUNDWATER REMEDIATION (LNAPL)
REVISED COST SPREADSHEET FOR SUBMITTAL PER ADDENDUM #1

8

Bid Item No.	Description	Units	Estimated ⁽¹⁾ Quantity	Unit Price (\$)	Total Price (\$)
1	Pre-Remedial Activities				
1.1	QAPP/SAPP (EPA compliant; draft and final)	LS		\$1,000.00	
1.2	Health & Safety Plan (OSHA HAZWOPER)	LS		\$500.00	
1.3	Permits and Approvals (City)	LS		\$500.00	
1.4	Kickoff meeting: project and site manager	LS		\$1,000.00	
	task subtotal				\$3,000.00
2	Excavation, stockpiling, test pits, interim groundwater remediation, construction				
2.1	Mobilization/Demobilization	LS		\$4,000.00	
2.2	Breaking, Excavation and Stockpiling: Concrete slabs	YD	40	\$50.00	\$2,000.00
2.3	Excavation and Stockpiling: overburden for reuse (0.0 to 7.0 feet bgs)	YD	1410	\$20.00	\$28,200.00
2.4	Excavation and Stockpiling: smear and saturated zone, petroleum-contaminated soil (~7.0 to ~15 feet bgs)	YD	2300	\$25.00	\$57,500.00
2.5	Interim groundwater extraction (vac truck and/or other equipment, and operator/crew over 2 days)	Days	2	\$1,800	\$ 3,600.00
2.6	Site restoration: backfilling with overburden; grading	YD	1410	\$48.00	\$67,680.00
2.7	Site restoration: Covering backfilled area with topsoil. Grade and seed	sq. ft.	8,900	\$4.00	\$35,600.00
	task subtotal				\$198,580.00
3	Disposal				
3.1	Contaminated soil	NT	3100	\$62.00	\$192,200.00
3.2	Waste Classification: Contaminated soil	LS			\$ 3,000.00
3.3	Heavy petroleum LNAPL and water	Gal	10000	\$1.10	\$ 11,000.00
3.4	Waste from decontamination (if required)	LS			\$ 3,000.00
	task subtotal				\$209,200.00
4	Post-remediation sampling				
4.1	Post-excavation soil sampling for EPH and laboratory analysis	EA	20	\$120.00	\$ 2,400.00
4.2	Post-excavation soil sampling contingency for PAH and laboratory analysis	EA	5	\$275.00	\$ 1,375.00
	task subtotal				\$ 3,775.00
5	Reporting (Remedial Action Report)	LS			\$ 7,000.00
	SUBTOTAL (Tasks 1 through 5)				\$421,555.00
6	Project Management: scheduling, workscope implementation, billing (maximum 5% of subtotal of tasks 1 through 5)	LS			\$ 13,200.00
	TOTAL (BID ITEMS 1-6)				\$434,755.00
	OPTIONAL TASKS				
Alt-1	Monitoring Well Installation and Gauging				
1.1	Well Installation (one, 4-inch diameter, PVC well, installed up to 15 feet deep with stick up mount, professionally-surveyed, forms)	LS		\$ 5,500.00	
1.2	Well Gauging (10 wells; monthly for two months)	LS		\$ 3,000.00	
	task subtotal				\$ 8,500.00
Alt-2	Concrete sampling and disposal				
1.1	Concrete: Characterization	LS	1	\$ 3000.00	
2.1	Concrete: Existing and recently stockpiled	NT	700	\$90.00	\$ 63,000.00
	task subtotal				\$ 66,000.00
Alt-3	Disposal of Soil as "Hazardous" for lead				
1.1	Contaminated soil: Hazardous	NT	3100	\$170.00	\$ 527,000.00
	TOTAL (INCLUDING OPTIONAL TASKS)				\$1,036,255.00

FEDERATED METALS: SOIL AND GROUNDWATER REMEDIATION (LNAPL)
REVISED COST SPREADSHEET FOR SUBMITTAL PER ADDENDUM #1

Q

Bid Item No.	Description	Units	Estimated ⁽¹⁾ Quantity	Unit Price (\$)	Total Price (\$)
1	Pre-Remedial Activities				
1.	QAPP/SAPP (EPA compliant; draft and final)	LS			2,180.00
2.	Health & Safety Plan (OSHA HAZWOPER)	LS			1,500.00
3.	Permits and Approvals (City)	LS			500.00
4.	Kickoff meeting: project and site manager	LS			2,000.00
	task subtotal				6,180.00
2	Excavation, stockpiling, test pits, interim groundwater remediation, construction				
1.	Mobilization/Demobilization	LS			5,000.00
2.	Breaking, Excavation and Stockpiling: Concrete slabs	YD	40		5,560.00
3.	Excavation and Stockpiling: overburden for reuse (0.0 to 7.0 feet bgs)	YD	1410		14,100.00
4.	Excavation and Stockpiling: smear and saturated zone, petroleum-contaminated soil (~7.0 to ~15 feet bgs)	YD	2300		55,200.00
5.	Interim groundwater extraction (vac truck and/or other equipment, and operator/crew over 2 days)	Days	2		3,036.00
6a.	Site restoration: backfilling with overburden; grading	YD	1410		24,675.00
6b.	Site restoration: Ccovering backfilled area with topsoil. Grade and seed	sq. ft.	8,900		11,570.00
	task subtotal				119,141.00
3	Disposal				
1.	Contaminated soil	NT	3100		155,000.00
2.	Waste Classification: Contaminated soil	LS			7,329.00
3.	Heavy petroleum LNAPL and water	Gal	10000		8,000.00
4.	Waste from decontamination (if required)	LS			0
	task subtotal				170,329.00
4	Post-remediation sampling				
1.	Post-excavation soil sampling for EPH and laboratory analysis	EA	20		3,220.00
2.	Post-excavation soil sampling contingency for PAH and laboratory analysis	EA	5		690.00
	task subtotal				3,910.00
5	Reporting (Remedial Action Report)	LS			11,020.00
	SUBTOTAL (Tasks 1 through 5)				310,580.00
6	Project Management: scheduling, workscope implementation, billing (maximum 5% of subtotal of tasks 1 through 5)	LS			15,050.00
	TOTAL (BID ITEMS 1-6)				325,630.00
	OPTIONAL TASKS				
Alt-1	Monitoring Well Installation and Gauging				
1.	Well Installation (one, 4-inch diameter, PVC well, installed up to 15 feet deep with stick up mount, professionally-surveyed, forms)	LS			7,115.00
2.	Well Gauging (10 wells; monthly for two months)	LS			2,620.00
	task subtotal				9,735.00
Alt-2	Concrete sampling and disposal				
1.	Concrete: Characterization	LS	1		1,798.00
2.	Concrete: Existing and recently stockpiled	NT	700	71.00	49,700.00
	task subtotal				51,498.00
Alt-3	Disposal of Soil as "Hazardous" for lead				
1.	Contaminated soil: Hazardous	NT	3100		787,498.00
	TOTAL (INCLUDING OPTIONAL TASKS)				1,174,263.00

FEDERATED METALS: SOIL AND GROUNDWATER REMEDIATION (LNAPL)
REVISED COST SPREADSHEET FOR SUBMITTAL PER ADDENDUM #1

10

Bid Item No.	Description	Units	Estimated ⁽¹⁾ Quantity	Unit Price (\$)	Total Price (\$)
1	Pre-Remedial Activities				
1.1	QAPP/SAPP (EPA compliant; draft and final)	LS			\$1,500.00
1.2	Health & Safety Plan (OSHA HAZWOPER)	LS			\$1,500.00
1.3	Permits and Approvals (City)	LS			\$3,500.00
1.4	Kickoff meeting: project and site manager	LS			\$2,500.00
	task subtotal				\$9,000.00
2	Excavation, stockpiling, test pits, interim groundwater remediation, construction				
2.1	Mobilization/Demobilization	LS			\$15,000.00
2.2	Breaking, Excavation and Stockpiling: Concrete slabs	YD	40	\$20.00	\$800.00
2.3	Excavation and Stockpiling: overburden for reuse (0.0 to 7.0 feet bgs)	YD	1410	\$6.00	\$8,460.00
2.4	Excavation and Stockpiling: smear and saturated zone, petroleum-contaminated soil (~7.0 to ~15 feet bgs)	YD	2300	\$6.00	\$13,800.00
2.5	Interim groundwater extraction (vac truck and/or other equipment, and operator/crew over 2 days)	Days	2	\$3,750	\$7,500.00
2.6	Site restoration: backfilling with overburden; grading	YD	1410	\$3.00	\$4,230.00
2.7	Site restoration: Covering backfilled area with topsoil. Grade and seed	sq. ft.	8,900	\$1.00	\$8,900.00
	task subtotal				\$58,690.00
3	Disposal				
3.1	Contaminated soil	NT	3100	\$105.00	\$325,500.00
3.2	Waste Classification: Contaminated soil	LS			\$3,500.00
3.3	Heavy petroleum LNAPL and water	Gal	10000	\$1.10	\$11,000.00
3.4	Waste from decontamination (if required)	LS			\$3,500.00
	task subtotal				\$343,500.00
4	Post-remediation sampling				
4.1	Post-excavation soil sampling for EPH and laboratory analysis	EA	20	\$365.00	\$7,300.00
4.2	Post-excavation soil sampling contingency for PAH and laboratory analysis	EA	5	\$365.00	\$1,825.00
	task subtotal				\$9,125.00
5	Reporting (Remedial Action Report)	LS			\$1,500.00
	SUBTOTAL (Tasks 1 through 5)				\$1,500.00
6	Project Management: scheduling, workscope implementation, billing (maximum 5% of subtotal of tasks 1 through 5)	LS			\$10,000.00
	TOTAL (BID ITEMS 1-6)				\$413,815.00
OPTIONAL TASKS					
Alt-1	Monitoring Well Installation and Gauging				
1.1	Well Installation (one, 4-inch diameter, PVC well, installed up to 15 feet deep with stick up mount, professionally-surveyed, forms)	LS			\$3,500.00
1.2	Well Gauging (10 wells; monthly for two months)	LS			\$1,000.00
	task subtotal				\$4,300.00
Alt-2	Concrete sampling and disposal				
1.1	Concrete: Characterization	LS	1		\$1,500.00
1.2	Concrete: Existing and recently stockpiled	NT	700	\$200.00	\$140,000.00
	task subtotal				\$141,500.00
Alt-3	Disposal of Soil as "Hazardous" for lead				
1.1	Contaminated soil: Hazardous	NT	3100	\$195.00	\$604,500.00
	TOTAL (INCLUDING OPTIONAL TASKS)				\$1,182,115.00

FEDERATED METALS: SOIL AND GROUNDWATER REMEDIATION (LNAPL)
REVISED COST SPREADSHEET FOR SUBMITTAL PER ADDENDUM #1

Bid Item No.	Description	Units	Estimated ⁽¹⁾ Quantity	Unit Price (\$)	Total Price (\$)
1	Pre-Remedial Activities				
1.1	QAPP/SAPP (EPA compliant; draft and final)	LS		\$2,500.00	
1.2	Health & Safety Plan (OSHA HAZWOPER)	LS		\$1,750.00	
1.3	Permits and Approvals (City)	LS		\$0.00	
1.4	Kickoff meeting: project and site manager	LS		\$3,500.00	
	task subtotal			\$7,750.00	
2	Excavation, stockpiling, test pits, interim groundwater remediation, construction				
2.1	Mobilization/Demobilization	LS		\$10,00.00	
2.2	Breaking, Excavation and Stockpiling: Concrete slabs	YD	40	\$159.00	\$6,630.00
2.3	Excavation and Stockpiling: overburden for reuse (0.0 to 7.0 feet bgs)	YD	1410	\$14.50	\$20,445.00
2.4	Excavation and Stockpiling: smear and saturated zone, petroleum-contaminated soil (~7.0 to ~15 feet bgs)	YD	2300	\$14.50	\$33,350.00
2.5	Interim groundwater extraction (vac truck and/or other equipment, and operator/crew over 2 days)	Days	2	\$1,850.00	\$3,700.00
2.6a	Site restoration: backfilling with overburden; grading	YD	1410	\$9.50	\$12,690.00
2.6b	Site restoration: Covering backfilled area with topsoil. Grade and seed	sq. ft.	8,900	\$1.32	\$11,748.00
	task subtotal			\$98,293.00	
3	Disposal				
3.1	Contaminated soil	NT	3100	\$89.00	\$275,900.00
3.2	Waste Classification: Contaminated soil	LS			\$3,450.00
3.3	Heavy petroleum LNAPL and water	Gal	10000	\$1.69	\$16,900.00
3.4	Waste from decontamination (if required)	LS			\$2,500.00
	task subtotal			\$298,750.00	
4	Post-remediation sampling				
4.1	Post-excavation soil sampling for EPH and laboratory analysis	EA	20	\$650.00	\$13,000.00
4.2	Post-excavation soil sampling contingency for PAH and laboratory analysis	EA	5	\$750.00	\$3,750.00
	task subtotal			\$16,750.00	
5	Reporting (Remedial Action Report)	LS			\$3,750.00
	SUBTOTAL (Tasks 1 through 5)			\$442,807.65	
6	Project Management: scheduling, workscope implementation, billing (maximum 5% of subtotal of tasks 1 through 5)	LS			\$21,264.65
	TOTAL (BID ITEMS 1-6)				\$447,557.65
OPTIONAL TASKS					
Alt-1	Monitoring Well Installation and Gauging				
1.1	Well Installation (one, 4-inch diameter, PVC well, installed up to 15 feet deep with stick up mount, professionally-surveyed, forms)	LS			\$250.00
1.2	Well Gauging (10 wells; monthly for two months)	LS			\$4,500.00
	task subtotal			\$4,750.00	
Alt-2	Concrete sampling and disposal				
1.1	Concrete: Characterization	LS	1		\$1,450.00
2.1	Concrete: Existing and recently stockpiled	NT	700	\$175.00	\$122,500.00
	task subtotal			\$123,950.00	
Alt-3	Disposal of Soil as "Hazardous" for lead				
1.1	Contaminated soil: Hazardous	NT	3100	\$230.00	\$713,000.00
	TOTAL (INCLUDING OPTIONAL TASKS)			\$1,284,507.65	

FEDERATED METALS: SOIL AND GROUNDWATER REMEDIATION (LNAPL)
REVISED COST SPREADSHEET FOR SUBMITTAL PER ADDENDUM #1

Bid Item No.	Description	Units	Estimated ⁽¹⁾ Quantity	Unit Price (\$)	Total Price (\$)
1	Pre-Remedial Activities				
	1. QAPP/SAPP (EPA compliant; draft and final)	LS		\$5,000.00	
	2. Health & Safety Plan (OSHA HAZWOPER)	LS		\$5,000.00	
	3. Permits and Approvals (City)	LS		\$5,000.00	
	4. Kickoff meeting: project and site manager	LS		\$5,000.00	
	task subtotal				\$20,000.00
2	Excavation, stockpiling, test pits, interim groundwater remediation, construction				
	1. Mobilization/Demobilization	LS		\$20,000.00	
	2. Breaking, Excavation and Stockpiling: Concrete slabs	YD	40	\$25.00	\$1,000.00
	3. Excavation and Stockpiling: overburden for reuse (0.0 to 7.0 feet bgs)	YD	1410	\$50.00	\$70,500.00
	4. Excavation and Stockpiling: smear and saturated zone, petroleum-contaminated soil (~7.0 to ~15 feet bgs)	YD	2300	\$25.00	\$57,500.00
	5. Interim groundwater extraction (vac truck and/or other equipment, and operator/crew over 2 days)	Days	2	5,000.00	\$10,000.00
	6a. Site restoration: backfilling with overburden; grading	YD	1410	\$50.00	\$70,500.00
	6b. Site restoration: Ccovering backfilled area with topsoil. Grade and seed	sq. ft.	8,900	\$10.00	\$89,000.00
	task subtotal				\$318,500.00
3	Disposal				
	1. Contaminated soil	NT	3100	\$239.00	\$740,900.00
	2. Waste Classification: Contaminated soil	LS			\$20,000.00
	3. Heavy petroleum LNAPL and water	Gal	10000	\$2.00	\$20,000.00
	4. Waste from decontamination (if required)	LS			\$20,000.00
	task subtotal				\$800,900.00
4	Post-remediation sampling				
	1. Post-excavation soil sampling for EPH and laboratory analysis	EA	20	\$1,500.00	\$30,000.00
	2. Post-excavation soil sampling contingency for PAH and laboratory analysis	EA	5	\$1,500.00	\$7,500.00
	task subtotal				\$37,500.00
5	Reporting (Remedial Action Report)				
	LS				\$50,000.00
	SUBTOTAL (Tasks 1 through 5)				\$50,000.00
6	Project Management: scheduling, workscope implementation, billing (maximum 5% of subtotal of tasks 1 through 5)	LS			\$60,000.00
	TOTAL (BID ITEMS 1-6)				\$1,286,900.00
	OPTIONAL TASKS				
Alt-1	Monitoring Well Installation and Gauging				
	1. Well Installation (one, 4-inch diameter, PVC well, installed up to 15 feet deep with stick up mount, professionally-surveyed, forms)	LS			\$10,000.00
	2. Well Gauging (10 wells; monthly for two months)	LS			\$15,000.00
	task subtotal				\$25,000.00
Alt-2	Concrete sampling and disposal				
	1. Concrete: Characterization	LS	1		\$2,500.00
	2. Concrete: Existing and recently stockpiled	NT	700	\$50.00	\$35,000.00
	task subtotal				\$37,500.00
Alt-3	Disposal of Soil as "Hazardous" for lead				
	1. Contaminated soil: Hazardous	NT	3100	\$260.00	\$806,000.00
	TOTAL (INCLUDING OPTIONAL TASKS)				\$2,155,400.00