## EXHIBIT SIX COMPLIANCE WITH REGULATION OF GENERAL APPLICABILITY CLOSED COLLINSVILLE LANDFILL COLLINSVILLE, ILLINOIS

EXHIBIT 6-1  Description of Efforts Necessary to Comply with the Regulation of General Applicability					

## Collinsville Landfill Removal

RS Means Escallation (2012 vs 2014) Item	Amount	Unit	1.01829 Total Cost (2014)
Mobilization/Demobilization General Mobilization			\$254,573
General Wobilization			, , , , , , , , , , , , , , , , , , ,
On Site Personnel			
Field Engineer / Technician	104	weeks	\$423,609
Site Preparation			
Construction Layout	5	Day	\$10,183
Field Offices	24	Month	\$24,439
Dewatering of Landfill			
1200' foot interceptor trench	1670	CY	\$6,802
Transport/Treatment at POTW	150,000,000	gal	\$30,548,700
Excavation of Trash			
Excavation	1,500,000	CY	\$3,054,870
Hauling	1,500,000	CY	\$14,098,225
Disposal in Non-hazardous Landfill			
Disposal	1,500,000	CY	\$174,127,590
Restoration of Site	23	acres	\$58,552
<b>Total Construction Costs</b>			\$222,607,542
Non Construction Costs			
Engineering Design	1	LS	\$203,658
Permitting	1	LS	\$101,829
Environmental Monitoring	1	LS	\$101,829
GW Monitoring	2	years	\$101,829
Contingency	5%	Percent	\$11,155,834

\$234,272,521

**TOTAL** 

Mobilization/Demobilization   Separal Mobilization   Separal Mobil	RS Means Escallation (2012 vs 2014) Item	Amount	1.018 <b>Unit</b>		Total Cost (2014)
Field Engineer / Technician  Total On Site Personnel  Site Preparation  Construction Layout Field Offices and Utilities 12 Month 512,216 Temporary Access Road 1500 SY 512,216  Construction of Interceptor trench 1200 foot interceptor foot foot interceptor foot foot foot foot foot foot foot f					\$25,450
Site Preparation  Construction Layout Field Offices and Utilities Field Offices and Field Fiel	On Site Personnel				
Site Preparation  Construction Layout 5 Day 510,180 Field Offices and Utilities 12 Month 512,216 Temporary Access Road 1500 SY 512,216  Construction of Interceptor trench 1200 foot interceptor trench Meramac Pea Gravel trench (3000# /yd) 2505 Tons 581,603  Capital Improvements  Connect Existing Extraction Wells to Equilization Tank 1 ea 552,936 Equalization Tank, Pumps and Piping 1 ea 552,936 Enlarge Treatment Facility 1 ea 576,350  Chemical Precipitation (rapid mix tank, floculation tank, clarifier, sludge holding tank, filter press) 1 ea 5637,268 Sand Filter (skid mounted, sand pressure vessels w/media, pumps, piping) 1 ea 5111,980  Granular Activated Carbon Treatment (skig mounted w/ piping and pumps, granulated carbon) 1 ea 586,530 PH Adjustment Tank Effluent Collection Tank and Auto Sampler 1 ea 586,530 PH Adjustment Tank Effluent Collection Tank and Auto Sampler 1 ea 520,360 Effluent Collection Tank and Auto Sampler 1 Es 520,360 Effluent Collection Tank and Auto Sampler 1 Es 520,360 Effluent Collection Tank and Auto Sampler 1 Es 520,360 Engineering Design 1 LS 520,3600 Permitting 1 LS 520,600 Permitting 520,600 Environmental Monitoring (initial year) 1 LS 5101,800 Environmental Monitoring (initial year) 55,855,133 @3% annual cost of living increase 51,094,162	Field Engineer / Technician	52	weeks		
Construction Layout Field Offices and Utilities Temporary Access Road 1500 SY S12,216 Temporary Access Road 1500 SY S12,216 Temporary Access Road 1500 SY S12,216  Construction of Interceptor trench 1200' foot interceptor trench 1200' foot interceptor trench (3000# /yd) 2505 Tons S81,603  Capital Improvements  Connect Existing Extraction Wells to Equilization Tank 1 ea \$101,800 Equalization Tank, Pumps and Piping 1 ea \$52,936 Enlarge Treatment Facility 1 ea \$76,350  Chemical Precipitation (rapid mix tank, floculation tank, clarifier, sludge holding tank, filter press) 1 ea \$637,268 Sand Filter (skid mounted, sand pressure vessels w/ media, pumps, piping) 1 ea \$111,980  Granular Activated Carbon Treatment (skig mounted w/ piping and pumps, granulated carbon) 1 ea \$86,530 Evaporator 1 ea \$86,530 EVaporator 1 ea \$86,530 Effluent Collection Tank and Auto Sampler 1 ea \$22,360 Effluent Collection Tank and Auto Sampler 1 ea \$25,450  Total Capital Improvements  Non Construction (25% of Capital Improvement Costs)  Non Construction Costs Engineering Design 1 LS \$309,981  Non Construction Costs Engineering Design 1 LS \$309,981  Non Construction Costs Engineering Design 1 LS \$309,981  Non Construction Costs Engineering Design 1 LS \$110,800 Environmental Monitoring (initial year) 1 LS \$101,800  O&M - Operator, Chemicals, Maintenance - 20 years @3% annual cost of living increase  Long Term Environmental Monitoring - 20 years \$1,094,162	Total On Site Personnel		\$208,000		\$211,744
Field Offices and Utilities 1500 SY S12,216 Temporary Access Road 1500 SY S12,216  Construction of Interceptor trench 1200' foot interceptor 1200' fo	Site Preparation				
Temporary Access Road 1500 SY \$12,216  Construction of Interceptor trench 1200' foot interceptor 1200' foot intercept	Construction Layout	5	Day		\$10,180
Construction of Interceptor trench 1200' foot interceptor trench 1200' foot interceptor trench Meramac Pea Gravel trench (3000# /yd) 2505 Tons \$5,950 Meramac Pea Gravel trench (3000# /yd)  Capital Improvements  Connect Existing Extraction Wells to Equilization Tank 1 ea \$101,800 Equalization Tank, Pumps and Piping 1 ea \$52,936 Enlarge Treatment Facility 1 ea \$76,350  Chemical Precipitation (rapid mix tank, floculation tank, clarifier, sludge holding tank, filter press) 1 ea \$111,980  Chemical Precipitation (rapid mix tank, floculation tank, clarifier, sludge holding tank, filter press) 1 ea \$111,980  Granular Activated Carbon Treatment (skig mounted W/ piping and pumps, granulated carbon) 1 ea \$127,250 Evaporator 1 ea \$86,530 PH Adjustment Tank 1 ea \$20,360 Effluent Collection Tank and Auto Sampler 1 ea \$25,450  Total Capital Improvements  Installation / Construction (25% of Capital Improvement Costs)  Engineering Design 1 LS \$203,600 Permitting 1 LS \$203,600 Environmental Monitoring (initial year) 1 LS \$101,800  O&M - Operator, Chemicals, Maintenance - 20 years @3% annual cost of living increase  Long Term Environmental Monitoring - 20 years @3% annual cost of living increase    State	Field Offices and Utilities	12	Month		\$12,216
1200' foot interceptor trench Meramac Pea Gravel trench (3000# /yd) 2505 Tons \$81,603  Capital Improvements  Connect Existing Extraction Wells to Equilization Tank 1 ea \$5101,800 Equalization Tank, Pumps and Piping 1 ea \$52,936 Enlarge Treatment Facility 1 ea \$76,350 Enlarge Treatment Facility 1 ea \$637,268 Enlarge Treatment (skig mounted tank, clarifier, sludge holding tank, filter press) 1 ea \$637,268 Enlarge Enlarge Enlarge Enlarge Holding tank, filter press) 1 ea \$637,268 Enlarge	Temporary Access Road	1500	SY		\$12,216
1200' foot interceptor trench Meramac Pea Gravel trench (3000# /yd) 2505 Tons \$81,603  Capital Improvements  Connect Existing Extraction Wells to Equilization Tank 1 ea \$5101,800 Equalization Tank, Pumps and Piping 1 ea \$52,936 Enlarge Treatment Facility 1 ea \$76,350 Enlarge Treatment Facility 1 ea \$637,268 Enlarge Treatment (skig mounted tank, clarifier, sludge holding tank, filter press) 1 ea \$637,268 Enlarge Enlarge Enlarge Enlarge Holding tank, filter press) 1 ea \$637,268 Enlarge	Construction of Interceptor trench				
Capital Improvements  Connect Existing Extraction Wells to Equilization Tank 1 ea \$101,800 Equalization Tank, Pumps and Piping 1 ea \$52,936 Enlarge Treatment Facility 1 ea \$76,350 Chemical Precipitation (rapid mix tank, floculation tank, clarifier, sludge holding tank, filter press) 1 ea \$637,268 Sand Filter (skid mounted, sand pressure vessels w/media, pumps, piping) 1 ea \$111,980 Granular Activated Carbon Treatment (skig mounted w/piping and pumps, granulated carbon) 1 ea \$86,530 Evaporator 1 ea \$86,530 Effluent Collection Tank and Auto Sampler 1 ea \$20,360 Effluent Collection Tank and Auto Sampler 1 ea \$25,450 Total Capital Improvements  Installation / Construction (25% of Capital Improvement Costs) \$309,981  Non Construction Costs Engineering Design 1 LS \$203,600 Environmental Monitoring (initial year) 1 LS \$101,800 Environmental Monitoring (initial year) 55,855,133 @3% annual cost of living increase \$1,094,162 @3% annual cost of living increase		1670	CY		\$5,950
Connect Existing Extraction Wells to Equilization Tank 1 ea \$101,800 Equalization Tank, Pumps and Piping 1 ea \$52,936 Enlarge Treatment Facility 1 ea \$76,350  Chemical Precipitation (rapid mix tank, floculation tank, clarifier, sludge holding tank, filter press) 1 ea \$637,268 Sand Filter (skid mounted, sand pressure vessels w/media, pumps, piping) 1 ea \$111,980  Granular Activated Carbon Treatment (skig mounted w/piping and pumps, granulated carbon) 1 ea \$86,530 pH Adjustment Tank 1 ea \$20,360 Effluent Collection Tank and Auto Sampler 1 ea \$25,450  Total Capital Improvements \$1,239,924  Installation / Construction (25% of Capital Improvement Costs) \$309,981  Non Construction Costs  Engineering Design 1 LS \$203,600 Permitting 1 LS \$101,800 Environmental Monitoring (initial year) 1 LS \$101,800  O&M - Operator, Chemicals, Maintenance - 20 years @3% annual cost of living increase \$1,094,162	•	2505	Tons		\$81,603
Equalization Tank, Pumps and Piping Enlarge Treatment Facility 1 ea \$52,936 Enlarge Treatment Facility 1 ea \$76,350  Chemical Precipitation (rapid mix tank, floculation tank, clarifier, sludge holding tank, filter press) 1 ea \$637,268 Sand Filter (skid mounted, sand pressure vessels w/ media, pumps, piping) 1 ea \$111,980  Granular Activated Carbon Treatment (skig mounted w/ piping and pumps, granulated carbon) 1 ea \$127,250 Evaporator 1 ea \$86,530 pH Adjustment Tank Effluent Collection Tank and Auto Sampler 1 ea \$20,360 Effluent Collection Tank and Auto Sampler 1 ea \$25,450  Total Capital Improvements  \$1,239,924  Installation / Construction (25% of Capital Improvement Costs)  \$309,981  Non Construction Costs Engineering Design 1 LS \$203,600 Permitting 1 LS \$101,800 Environmental Monitoring (initial year) 1 LS \$101,800  O&M - Operator, Chemicals, Maintenance - 20 years @3% annual cost of living increase  \$1,094,162	Capital Improvements				
Equalization Tank, Pumps and Piping Enlarge Treatment Facility 1 ea \$52,936 Enlarge Treatment Facility 1 ea \$76,350  Chemical Precipitation (rapid mix tank, floculation tank, clarifier, sludge holding tank, filter press) 1 ea \$637,268 Sand Filter (skid mounted, sand pressure vessels w/ media, pumps, piping) 1 ea \$111,980  Granular Activated Carbon Treatment (skig mounted w/ piping and pumps, granulated carbon) 1 ea \$127,250 Evaporator 1 ea \$86,530 PH Adjustment Tank 1 ea \$20,360 Effluent Collection Tank and Auto Sampler 1 ea \$25,450  Total Capital Improvements  Fingineering Design 2 LS \$309,981  Non Construction Costs Engineering Design Permitting 1 LS \$203,600 Permitting 1 LS \$101,800 Environmental Monitoring (initial year)  O&M - Operator, Chemicals, Maintenance - 20 years @3% annual cost of living increase  \$1,094,162	Connect Existing Extraction Wells to Equilization Tank	1	ea	\$101.800	
Enlarge Treatment Facility  Chemical Precipitation (rapid mix tank, floculation tank, clarifier, sludge holding tank, filter press)  Sand Filter (skid mounted, sand pressure vessels w/ media, pumps, piping)  Granular Activated Carbon Treatment (skig mounted w/ piping and pumps, granulated carbon)  Evaporator  pH Adjustment Tank  Effluent Collection Tank and Auto Sampler  Total Capital Improvements  Fingineering Design  Engineering Design  Environmental Monitoring (initial year)  O&M - Operator, Chemicals, Maintenance - 20 years  @3% annual cost of living increase  Long Term Environmental Monitoring - 20 years  @3% annual cost of living increase  1 ea \$5637,268  \$637,268  \$637,268  \$637,268  \$637,268  \$637,268  \$637,268  \$637,268  \$111,980  \$11,980  \$1 ea \$111,980  \$127,250  \$20,360  \$20,360  \$309,981  \$1,239,924  \$1,239,924  \$1,239,924  \$2,23,600  \$2,203,600  \$2,203,600  \$3,203,600  \$3,203,600  \$4,102,000					
tank, clarifier, sludge holding tank, filter press)  Sand Filter (skid mounted, sand pressure vessels w/ media, pumps, piping)  Granular Activated Carbon Treatment (skig mounted w/ piping and pumps, granulated carbon)  Evaporator  pH Adjustment Tank  filten Collection Tank and Auto Sampler  Total Capital Improvements  Fingineering Design  Permitting Engineering Design Environmental Monitoring (initial year)  D&M - Operator, Chemicals, Maintenance - 20 years @3% annual cost of living increase  Long Term Environmental Monitoring - 20 years @3% annual cost of living increase					
tank, clarifier, sludge holding tank, filter press)  Sand Filter (skid mounted, sand pressure vessels w/ media, pumps, piping)  Granular Activated Carbon Treatment (skig mounted w/ piping and pumps, granulated carbon)  Evaporator  pH Adjustment Tank  filten Collection Tank and Auto Sampler  Total Capital Improvements  Fingineering Design  Permitting Engineering Design Environmental Monitoring (initial year)  D&M - Operator, Chemicals, Maintenance - 20 years @3% annual cost of living increase  Long Term Environmental Monitoring - 20 years @3% annual cost of living increase	Chemical Precipitation (rapid mix tank floculation				
Sand Filter (skid mounted, sand pressure vessels w/ media, pumps, piping)  Granular Activated Carbon Treatment (skig mounted w/ piping and pumps, granulated carbon)  Evaporator  Evaporator  Evaporator  Effluent Collection Tank  Effluent Collection Tank and Auto Sampler  Total Capital Improvements  Fingineering Design  Engineering Design  Engineering Design  Environmental Monitoring (initial year)  Column		1	0.2	\$627.269	
Granular Activated Carbon Treatment (skig mounted w/ piping and pumps, granulated carbon) 1 ea \$127,250 Evaporator 1 ea \$86,530 pH Adjustment Tank 1 ea \$20,360 Effluent Collection Tank and Auto Sampler 1 ea \$25,450  Total Capital Improvements \$1,239,924  Installation / Construction (25% of Capital Improvement Costs) \$309,981  Non Construction Costs Engineering Design 1 LS \$203,600 Permitting 1 LS \$101,800 Environmental Monitoring (initial year) 1 LS \$101,800  CO&M - Operator, Chemicals, Maintenance - 20 years @3% annual cost of living increase \$1,094,162 @3% annual cost of living increase		1	Ca	7037,200	
w/ piping and pumps, granulated carbon)  Evaporator  pH Adjustment Tank  Effluent Collection Tank and Auto Sampler  Total Capital Improvements  Installation / Construction (25% of Capital Improvement Costs)  Non Construction Costs  Engineering Design  Permitting  Environmental Monitoring (initial year)  Co&M - Operator, Chemicals, Maintenance - 20 years  @3% annual cost of living increase  Long Term Environmental Monitoring - 20 years  @3% annual cost of living increase		1	ea	\$111,980	
w/ piping and pumps, granulated carbon)  Evaporator  pH Adjustment Tank  Effluent Collection Tank and Auto Sampler  Total Capital Improvements  Installation / Construction (25% of Capital Improvement Costs)  Non Construction Costs  Engineering Design  Permitting  Environmental Monitoring (initial year)  Co&M - Operator, Chemicals, Maintenance - 20 years  @3% annual cost of living increase  Long Term Environmental Monitoring - 20 years  @3% annual cost of living increase	Cronsular Askirated Coulon Tractes out (aking a counted				
Evaporator pH Adjustment Tank Effluent Collection Tank and Auto Sampler  Total Capital Improvements  Installation / Construction (25% of Capital Improvement Costs)  Non Construction Costs Engineering Design Permitting Environmental Monitoring (initial year)  D&M - Operator, Chemicals, Maintenance - 20 years @3% annual cost of living increase  Long Term Environmental Monitoring - 20 years @3% annual cost of living increase	· · · · · · · · · · · · · · · · · · ·	1	22	¢127.250	
pH Adjustment Tank Effluent Collection Tank and Auto Sampler  Total Capital Improvements  Installation / Construction (25% of Capital Improvement Costs)  Non Construction Costs Engineering Design Permitting Environmental Monitoring (initial year)  O&M - Operator, Chemicals, Maintenance - 20 years @3% annual cost of living increase  Long Term Environmental Monitoring - 20 years @3% annual cost of living increase					
Total Capital Improvements  Installation / Construction (25% of Capital Improvement Costs)  Non Construction Costs  Engineering Design Permitting Permitting Environmental Monitoring (initial year)  O&M - Operator, Chemicals, Maintenance - 20 years @3% annual cost of living increase  Long Term Environmental Monitoring - 20 years @3% annual cost of living increase					
Total Capital Improvements \$1,239,924  Installation / Construction (25% of Capital Improvement Costs) \$309,981  Non Construction Costs  Engineering Design 1 LS \$203,600 Permitting 1 LS \$101,800 Environmental Monitoring (initial year) 1 LS \$101,800 Environmental Monitoring (initial year) 1 LS \$101,800  O&M - Operator, Chemicals, Maintenance - 20 years @3% annual cost of living increase \$5,855,133  @03% annual cost of living increase \$1,094,162					
Installation / Construction (25% of Capital Improvement Costs)  Non Construction Costs  Engineering Design Permitting 1 LS \$101,800 Environmental Monitoring (initial year)  D&M - Operator, Chemicals, Maintenance - 20 years @3% annual cost of living increase  Long Term Environmental Monitoring - 20 years @3% annual cost of living increase  \$1,094,162	Emacht concetion raincana rate sample.	_		Ψ <b>2</b> 3,430	
Non Construction Costs  Engineering Design Permitting Environmental Monitoring (initial year)  O&M - Operator, Chemicals, Maintenance - 20 years @3% annual cost of living increase  Long Term Environmental Monitoring - 20 years @3% annual cost of living increase  \$1,094,162	Total Capital Improvements				\$1,239,924
Engineering Design Permitting Permitting Environmental Monitoring (initial year)  O&M - Operator, Chemicals, Maintenance - 20 years @3% annual cost of living increase  Long Term Environmental Monitoring - 20 years @3% annual cost of living increase  \$1,094,162	Installation / Construction (25% of Capital Improvement Costs)				\$309,981
Permitting 1 LS \$101,800 Environmental Monitoring (initial year) 1 LS \$101,800  O&M - Operator, Chemicals, Maintenance - 20 years @3% annual cost of living increase  Long Term Environmental Monitoring - 20 years @3% annual cost of living increase  \$1,094,162	Non Construction Costs				
Environmental Monitoring (initial year)  O&M - Operator, Chemicals, Maintenance - 20 years @3% annual cost of living increase  Long Term Environmental Monitoring - 20 years @3% annual cost of living increase  \$1,094,162	Engineering Design	1	LS		\$203,600
O&M - Operator, Chemicals, Maintenance - 20 years @3% annual cost of living increase  Long Term Environmental Monitoring - 20 years @3% annual cost of living increase \$1,094,162	Permitting	1	LS		\$101,800
@3% annual cost of living increase  Long Term Environmental Monitoring - 20 years @3% annual cost of living increase  \$1,094,162	Environmental Monitoring (initial year)	1	LS		\$101,800
@3% annual cost of living increase  Long Term Environmental Monitoring - 20 years @3% annual cost of living increase  \$1,094,162	O&M - Operator, Chemicals, Maintenance - 20 years	15%	Percent		\$5,855.133
@3% annual cost of living increase			-		- , -, -,
Contingency         30%         Percent         \$2,779,727					\$1,094,162
	Contingency	30%	Percent		\$2,779,727

TOTAL \$12,045,486

Closed Collinsville Landfill Petition for Adjusted Standards

Tetra Tech

## Collinsville Landfill Pump and Treat Leachate

RS Means Escallation (2012 vs 2014) Item	Amount	1.018 <b>Unit</b>	Total Cost (2014)
Mobilization/Demobilization General Mobilization			\$25,450
On Site Personnel			
Field Engineer / Technician	52	weeks	
Total On Site Personnel		\$211,744	\$211,744
Site Preparation			
Construction Layout	5	Day	\$10,180
Field Offices and Utilities	12	Month	\$12,216
Capital Improvements			
Connect Existing Extraction Wells to Equilization Tank	1	ea	\$101,800
Equalization Tank, Pumps and Piping	1	ea	\$52,936
Enlarge Treatment Facility	1	ea	\$76,350
Chemical Precipitation (rapid mix tank, floculation			
tank, clarifier, sludge holding tank, filter press)	1	ea	\$637,268
Sand Filter (skid mounted, sand pressure vessels w/			
media, pumps, piping)	1	ea	\$111,980
Granular Activated Carbon Treatment (skig mounted			
w/ piping and pumps, granulated carbon)	1	ea	\$127,250
Evaporator	1	ea	\$86,530
pH Adjustment Tank	1	ea	\$20,360
Effluent Collection Tank and Auto Sampler	1	ea	\$25,450
Total Capital Improvements		_	 \$1,239,924
			. , .
Installation / Construction (25% of Capital Improvement Costs)			\$309,981
Non Construction Costs			
Engineering Design	1	LS	\$203,600
Permitting	1	LS	\$101,800
Environmental Monitoring (initial year)	1	LS	\$101,800
O&M - Operator, Chemicals, Maintenance - 20 years @3% annual cost of living increase	15%	Percent	\$5,855,133
Long Term Environmental Monitoring - 20 years @3% annual cost of living increase			\$1,094,162
Contingency	30%	Percent	\$2,749,797

TOTAL \$11,915,786

Closed Collinsville Landfill
Petition for Adjusted Standards
4/24/2014