# 2021 Boulevard Road SE Olympia, Washington

### Prepared for:

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# **Executive Summary**

PIONEER Technologies Corporation (PIONEER) prepared this Interim Action Work Plan to present the necessary planning documentation for conducting an Interim Action. The purpose of the Interim Action is to remediate a soil berm along the western portion of the site located at 2021 Boulevard Road SE, in Olympia, Thurston County, Washington (the Site).

Dieldrin, a pesticide, has been detected in soil comprising the soil berm at concentrations exceeding Model Toxics Control Act Method B Screening Levels for Unrestricted Land Use (SLs). In order to reuse the Site for future residential use, the dieldrin-contaminated portion of the soil berm should be excavated and disposed of at a licensed disposal facility. The disposal should be followed by confirmation sampling at the limits of the excavation to confirm remaining soil does not exceed the dieldrin SL.

The proposed Interim Action meets the three types of compliance monitoring (protection monitoring, performance monitoring, and conformational monitoring) required by the Washington Department of Ecology (Ecology). Future development and grading would be required for the planned end use and the planned excavation will only extend a maximum of six to 12 inches below the surrounding grade; therefore, no backfilling or surface restoration is planned as part of the Interim Action.

Upon completion of Interim Action fieldwork, a report that describes the field activities will be prepared and submitted to Ecology for review and approval. The report will include waste manifests, calculations of volume of soil removed, laboratory analytical results for the collected confirmation samples, field notes, tables summarizing the analytical results, and figures showing the extent of excavation and remaining in place soil concentrations throughout the Site.

The total estimated cost for the Interim Action, including environmental consultant oversight, contractor time and materials, required permits, health and safety planning, and project management tasks is \$82,147. Rather than entering the expedited Voluntary Cleanup Program (VCP) and paying the associated enrollment and prepayment costs, the Ecology project manager assigned to the Site, Mr. Frank Winslow, has stated that he has time to manage the project as a Standard VCP site, which will result in decreased fees from Ecology due to the Ecology project manager only charging for his review time.



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# **List of Acronyms**

Acronym	Explanation
ARARs	Applicable or Relevant and Appropriate Requirements
BMPs	Best Management Practices
CSWGP	Construction Stormwater General Permit
Ecology	Washington Department of Ecology
ESA	Environmental Site Assessment
HASP	Health and Safety Plan
MTCA	Model Toxics Control Act
NFA	No Further Action
NPDES	National Pollutant Discharge Elimination System
PIONEER	PIONEER Technologies Corporation
QA/QC	Quality Assurance/Quality Control
SEPA	Washington State Environmental Policy Act
Site	2021 Boulevard Road SE, Olympia, Washington
SLs	Model Toxics Control Act Method B Screening Levels for Unrestricted Land Use
TESC	Temporary Erosion and Sediment Control
VCP	Voluntary Cleanup Program
WAC	Washington Administrative Code



# **SECTION 1: INTRODUCTION AND SITE BACKGROUND**

PIONEER Technologies Corporation (PIONEER) prepared this Interim Action Work Plan to present the necessary planning documentation for conducting an Interim Action. The purpose of the Interim Action is to remediate a soil berm along the western portion of the site located at 2021 Boulevard Road SE, in Olympia, Thurston County, Washington (the Site).

# 1.1 Site Background

The Site consists of 0.90 acres of vacant grass- and gravel-covered land. The Site is located in a residential area in the eastern portion of Olympia (see Figure 1).

PIONEER completed a Phase I Environmental Site Assessment (ESA) of the Site and prepared a Phase I ESA report in July 2021. The development history of the Site is as follows: Prior to 1941, the Site was vacant, partially wooded land. By 1949, a residence was constructed on the south-central portion of the Site. By 1956, three greenhouses and an office associated with Smith's Greenhouse (a plant nursery) were built around the residence. In 1966, a fire destroyed the office and it was replaced with a retail store and outdoor sales area. By 1978, Smith's Greenhouse business became Boulevard Nursery and continued operating as a nursery. The nursery operated into the mid-2000s at which time the Site became abandoned. Several iterations of building demolition and soil grading occurred between 2012 and 2017. By 2020, no structures were present and a soil berm was present along the Site's western edge (see Figure 2; PIONEER 2021a).

### 1.2 Previous Investigations and Environmental Conditions

Soil sampling for pesticides associated with former nursery operations occurred in 2009 and 2020. The Washington Department of Ecology (Ecology) granted a No Further Action (NFA) opinion for the Site in 2020 (Ecology 2020). Ecology's Facility ID for the Site is 3749 and the Cleanup Site ID is 223. Subsequent soil sampling occurred in April 2021 and one soil sample collected from the soil berm contained dieldrin, a pesticide, at concentrations exceeding Model Toxics Control Act (MTCA) Method B Screening Levels for Unrestricted Land Use (SLs). As a result, Ecology rescinded the NFA opinion (Ecology 2021). PIONEER collected additional soil samples from the soil berm in July 2021 as part of a Phase II ESA completed for a prospective purchaser. A total of nine different pesticides were detected in soil samples; however, only dieldrin exceeded the SL (see Table 1). Dieldrin concentrations exceeded the SL at seven of the 13 locations sampled, including six of the seven soil borings; dieldrin concentrations were below the SL at PTC-SB5. Concentrations of dieldrin generally decreased at depth, with the exception of PTC-SB4 and PTC-SB6, in which dieldrin concentrations in surficial and deeper samples collected from the soil berm were similar (see Figure 3).

The Phase II ESA recommended that prior to redeveloping the Site, the contaminated portion of the soil berm should be excavated and disposed of at a licensed disposal facility. The disposal should be followed by confirmation sampling at the limits of the excavation to confirm remaining soil does not exceed the dieldrin SL (PIONEER 2021b).



# **SECTION 2: OVERVIEW OF THE INTERIM ACTION**

This section provides an overview of the Interim Action including the objective, cleanup requirements, and remedial actions considered.

#### 2.1 Objective of the Interim Action

The Interim Action will focus on removing the dieldrin-contaminated portion of the soil berm on the western edge of the Site in order to facilitate future development of the Site for unrestricted land use (e.g. residential). The dieldrin-contaminated portion of the soil berm is approximately 5 feet tall, 25 feet wide, and the length of the Site, with a volume of approximately 350 cubic yards. Figures 4 and 5 provide plan and cross-sectional views of the proposed interim action, respectively. Ecology will likely require the cleanup and an NFA opinion prior to allowing residential development to commence. Therefore it is likely not feasible to remove the soil berm once the development commences.

#### **2.2** Cleanup Requirements

The MTCA cleanup regulations provide that an interim action comply with cleanup standards (Washington Administrative Code [WAC] 173-340-430) for identified constituents of concern (i.e. dieldrin), points of compliance, and applicable or relevant and appropriate requirements (ARARs) based on federal and state laws (WAC 173-340-710). This section identifies cleanup standards for the Interim Action including cleanup levels, points of compliance and applicable regulatory requirements.

The Interim Action will achieve cleanup objectives for the Site. For the purposes of the Interim Action cleanup requirements including soil remediation levels, soil points of compliance and ARARs are described in the following sections.

#### **2.2.1** *Soil Cleanup Requirements*

MTCA Method B Screening Levels for Unrestricted Land Use will be used as the cleanup level for this Interim Action. As indicated in the objective for the Interim Action, soil will be removed until all remaining concentrations of dieldrin are less the cleanup level. The cleanup level for dieldrin is presented in Table 1, along with results from soil samples collected on the Site to date.

It is anticipated that the proposed excavation will extend only six to 12 inches below the surrounding grade, since the soil berm extends above surrounding grade. However, the standard point of compliance for the soil cleanup level will be from the surface to 15 feet below ground surface, in accordance with WAC 173-340-740(6)(d) and WAC 173-340-7490(4)(b). As previously noted, the Interim Action will achieve cleanup of contaminated soil to the point of compliance at the Site. Further details are presented in Section 3.



# 2.2.2 Applicable Regulatory Requirements

In addition to the cleanup standards described in the preceding section, other regulatory requirements must be considered during implementation of the Interim Action (WAC 173-340-710). The applicable regulatory requirements for the Interim Action include the following:

#### 2.2.2.1 Washington State Environmental Policy Act (SEPA)

The Washington State Environmental Policy Act (SEPA) provides a way to identify possible environmental impacts that may result from governmental decisions. Information provided during the SEPA review process helps agency decision-makers, applicants, and the public understand how a project will affect the environment. SEPA is intended to ensure that state and local government officials consider environmental values when making decisions or taking an official action. A SEPA determination may be required prior to implementation of the project.

#### 2.2.2.2 Historic and Cultural Resources

The National Historic Preservation Act (Section 106), the Federal Archaeological and Historical Preservation Act (16 USCA 496a-1), and the Archaeological Resources Protection Act (43 CFR Part 7) will be applicable if any materials of archaeological interest are discovered during excavation activities.

Development of the Site for previous commercial use would likely have destroyed or disturbed cultural deposits in the vicinity of the Site. In the unlikely event of the discovery of archeological materials or human remains, work will be immediately stopped in the area and appropriate personnel will be notified as detailed in the Inadvertent Discoveries Plan (see Appendix A).

#### 2.2.2.3 Washington State Construction Stormwater General Permit (CSWGP)

Construction site operators are required to be covered by a Construction Stormwater General Permit (CSWGP) if they are engaged in clearing, grading, and excavating activities that disturb one or more acres and discharge stormwater to surface waters of the state. The CSWGP is administered by Ecology under the National Pollutant Discharge Elimination System (NPDES) and State Waste Discharge General Permit for Stormwater Discharges. This permit is not anticipated to be applicable for the Interim Action because the area of disturbance from the Interim Action is less than one acre.

#### 2.2.2.4 City of Olympia Permit(s)

The Interim Action involves excavation within City of Olympia boundaries therefore, the work falls within the City's permit jurisdiction. The City will likely require a grading permit as part of their standard procedure to confirm that substantive requirements are met.

Applicable documentation (e.g. permit application forms) and plans prepared for Interim Action construction will be submitted to the City for review and coordination will be completed with the City to ensure compliance with the substantive requirements of the appropriate permit(s).



# 2.3 Remedial Actions Considered

Remedial actions considered to address contaminated soil on the Site generally included the following:

- Capping and containment of contaminated soil
- Excavation to remove contaminated soil and off-site disposal

The identified extent of contaminated soil is located in area of the Site that will be needed for future redevelopment. The remedial action selected for the Interim Action needs to 1) address contamination, 2) provide a certainty in the cleanup timeframe while reducing potential for future additional costs and complexities, and 3) be compatible with future use of the Site.

Capping/containment is potentially an effective remedial action for the Site but may limit the ability to use the Site for beneficial uses in the near future. Additionally, the effectiveness of capping/containment is less certain than removal and off-site disposal and would require long term operations and maintenance inspections for perpetuity.

Excavation and off-site disposal provides certainty that the remedy will be completed and permanent. Development of the Site could prevent contingency actions for capping/containment. Removal and off-site disposal was selected as the preferred remedial approach for the Interim Action due to its compatibility with future Site use.



# **SECTION 3: INTERIM ACTION COMPONENTS**

The Interim Action will remove and dispose of the dieldrin-contaminated soil berm described in Section 2.1. The components of the Interim Action include:

- Site Preparation;
- Procedures for Inadvertent Discovery of Cultural Resources;
- Remedial Excavation Limits and Confirmation Soil Sampling; and
- Transport and Disposal of Excavated Soil.

The following sections provide detail on how these components will be implemented to complete the Interim Action.

# **3.1** Site Preparation

### 3.1.1 Utility Locate

As part of the Interim Action mobilization, the contractor will be responsible for contacting Washington State Utilities Underground Location Center at 811. Currently known utilities in the vicinity of the Interim Action include overhead power and telephone and underground power, telephone, stormwater, water and gas. A private utility locate was completed in July 2021 and no subsurface utilities were identified in the vicinity of the planned excavation. The exact height of the overhead utility lines is not known and will be verified in the field by the contractor prior to bringing equipment on-site.

### 3.1.2 Contractor Staging Areas, Site Security, and Traffic Control

The eastern portion of the Site, where contamination is not present, will be available to the contractor for staging.

The contractor will be responsible for providing and installing temporary site security measures including fencing, barricades, etc., as necessary for cordoning off the construction work and contractor staging areas from the public during active work and non-work hours.

It is assumed that the vehicular traffic movement (in both directions) on Boulevard Road SE can be kept open during construction activities. If vehicular traffic movement must be limited at any time, the contractor will be required to implement traffic controls to ensure public safety.

# 3.1.3 Temporary Erosion and Sediment Control

Best management practices (BMPs) consistent with Ecology's current Stormwater Management Manual for Western Washington and the project permit requirements will be used for erosion and sediment control during construction. A temporary erosion and sediment control (TESC) plan will be prepared as part of the project plans presenting minimum requirements that the contractor will be required to follow. The contractor will be required to revise this plan or prepare a new TESC plan as necessary to identify TESC BMPs that will be implemented during construction.

The proposed TESC elements will include the following:



- Prevention of soil, debris and soil-laden water from leaving the work area and entering adjacent surface streets, storm drains, as well as the Puget Sound using silt/filter fabric fences, straw bales, straw wattles, storm drain inlet protection, catch basin silt barriers and/or similar BMPs.
- Implementation of BMPs to divert stormwater such that stormwater from offsite does not enter the excavation area.
- Implementation of BMPs at the construction entrance/exit and internal haul routes to minimize the tracking of soil onto the adjacent surface streets.
- Street sweeping and/or street cleaning, as necessary, to remove soil tracked onto the adjacent surface streets.

#### 3.1.4 Dust and Noise Control

Excavation work has the potential to generate airborne dust. Engineering controls will be used during construction (e.g., wetting and/or covering exposed soil), as necessary, to meet Northwest Clean Air Agency substantive restrictions on the off-site transport of airborne particulates. If wetting is employed, care will be taken to apply the appropriate amount of water to prevent dust only. Visual monitoring will take place and water application will cease if over-saturation is noted (i.e. puddling, surface runoff). In addition, street sweeping will be performed, as necessary.

Construction noise will be generated by a variety of construction equipment, including truck engines, back-up alarms, generators, other small engines, and earthmoving equipment. Work associated with the Interim Action will be performed during hours allowed by the City of Olympia municipal code. If required, a variance on the allowable work hours will be coordinated with the City of Olympia.

# **3.2** Procedures for Inadvertent Discovery of Cultural Resources

Although unlikely given the origin of the soil berm, procedures for inadvertent discoveries of cultural resources will follow the City of Olympia's USEPA Brownfield Grant Inadvertent Discovery Plan (see Appendix A).

# 3.3 Remedial Excavation Limits and Confirmation Soil Sampling

The objective of remedial excavation is to remove the dieldrin-contaminated portion of the soil berm and to allow for the Site to be redeveloped for residential use prior to implementation of a final remedy for the Site (i.e. an NFA opinion from Ecology).

The estimated limits of contamination and remedial excavation are shown in plan view on Figure 4 and in cross-section view on Figure 5. A total of approximately 350 cubic yards of material are estimated to be removed from the excavation based on the known extent of dieldrin-contaminated soil.

The preliminary depth to the excavation base is six to 12 inches below the surrounding grade as shown on Figure 5. The majority of soil removed will be from above grade. The final depth to excavation base may vary based on results of confirmation soil sampling. Similarly, the final excavation limits may extend beyond the preliminary limits shown on Figure 4 based on results of confirmation soil sampling.



Based on the type of contamination and the origin of the soil berm, the limits of the excavation are not anticipated to extend beyond the Site boundary to the north, south, or west, or deeper than six to 12 inches below the surrounding grade.

### 3.4 Transport and Disposal of Excavated Soil

Excavated soil will be transported off-site and disposed at an Ecology-approved permitted disposal facility. The contractor will be required to ensure that the methods used to transport soil off-site for disposal is in accordance with all applicable transportation laws and regulations and meets the requirements of the receiving disposal facility. Soil with free liquid will not be allowed for off-site transportation. The contractor will be required to setup a designated area for transferring excavated soil onto trucks/containers used for transporting soil off-site. These designated area(s) will be constructed of impermeable surfaces (e.g. plastic sheeting) that can contain accidental spills that may occur during transfer of soil, are capable of preventing cross-contamination to underlying/adjacent areas, and are able to resist damage from heavy truck traffic. Trucks/containers used for transporting excavated soil will be equipped with seals and doors to prevent spillage of soil during transportation in accordance with applicable regulatory requirements.

Transportation of excavated soil will be completed by waste haulers in accordance with applicable state and federal solid waste handling and transportation regulations. Transportation contractor(s) will provide documentation that demonstrates that they are properly licensed and are in compliance with applicable U.S. Department of Transportation regulations, as well as a copy of their contingency and spill control plans describing the measures to be implemented in the event of spills or discharges during soil handling and transporting. The contractor will provide records of disposal (weight tickets, certificate of disposal) from the disposal facility to confirm the weight of the excavated soil.

Future development of the Site will include grading and the planned excavation will only extend a maximum of six to 12 inches below the surrounding grade; therefore, no backfilling or surface restoration is planned.



# **SECTION 4: COMPLIANCE MONITORING**

Compliance monitoring will be implemented in accordance with Ecology requirements (WAC 173-340-410). The three types of compliance monitoring to be performed include:

- Protection monitoring to confirm that human health and the environment are adequately protected during the construction phase of the Interim Action.
- Performance monitoring to confirm that the Interim Action has attained cleanup standards.
- Confirmational monitoring to confirm the long-term effectiveness of the Interim Action once the cleanup standards have been attained.

# **4.1** Protection Monitoring

The protection monitoring plan for the Interim Action will be addressed in a Health and Safety Plan (HASP) which will be developed prior to completing the Interim Action.

Cleanup-related construction activities will be performed in accordance with the requirements of the Washington Industrial Safety and Health Act (RCW 49.17) and the Federal Occupational Safety and Health Act (29 CFR 1910, 1926). These regulations include requirements that workers are to be protected from exposure to contaminants. A project-specific HASP describing actions that will be taken to protect the health and safety of field personnel will be developed prior to completing the Interim Action. All contractors will be required to prepare and submit a separate HASP for use by contractor personnel. Personnel engaged in work that involves hazardous material excavation and handling will comply with MTCA safety and health provisions in WAC 173-340-810 and will be HAZWOPER, OSHA, and WISHA certified as required.

# **4.2** Performance Monitoring

Performance monitoring includes confirmation soil sampling that will be performed at the limits of excavation. Confirmation samples will be collected from the excavation floor and boundaries and analyzed for dieldrin. All confirmation samples will be grab samples. The approximate locations of all proposed confirmation samples are shown on Figures 4 and 5. If it is necessary to expand the excavation based on confirmation sample results, the number and location of confirmation samples associated with the excavation expansion(s) will be determined prior to the next mobilization and communicated to Ecology.

It is anticipated that all confirmation samples will be collected with hand tools (e.g., hand trowel, shovel, hand auger). All samples will be sent to an Ecology-approved laboratory for analyses. USEPA Method SW846-8081 will be used for all dieldrin analyses with a laboratory reporting limit of 0.063 mg/kg or lower. Laboratory and field sampling procedures will be conducted in accordance with the City of Olympia's USEPA-approved Generic Quality Assurance Project Plan (PIONEER 2020).



# **4.3** Confirmational Monitoring

The proposed Interim Action is a permanent remedy. Performance samples will also serve as confirmation samples, since the samples will confirm that the source of contamination has been removed. Once the dieldrin-contaminated portion of the soil berm is removed, the Site will remain protective of human health and the environment.



# **SECTION 5: QUALITY ASSURANCE/QUALITY CONTROL**

This section describes general quality assurance/quality control (QA/QC) procedures to be implemented during the Interim Action, including contractor QC, field QA and QC, construction monitoring and field documentation, and field and analytical QA/QC.

#### **5.1** Contractor QC

The contractor will prepare a plan describing each of the primary elements of work, QC procedures that will be utilized, and project management structure. The contractor's plan will be subject to review and approval to ensure that the construction is completed in accordance with this report and any contract requirements (to be developed at a later date).

The contractor will maintain QC records for the duration of the construction. These records will include evidence that any required inspections or tests have been performed on equipment, including the type and number of inspections or tests involved; results of inspections or tests; nature of defects, deviations, causes for rejection of equipment or tests, proposed corrective actions, and corrective actions taken.

In addition to the contractor's QC activities, the Licensed Washington Geologist of Record for the project will perform independent oversight of the contractor's activities.

### **5.2** Construction Monitoring and Field Documentation

A comprehensive record of field activities will be maintained. Field documentation for this project will include field reports, and chain-of-custody forms for samples submitted for analytical testing. The field documentation will record excavation and sampling activities, as well as decisions, corrective actions, and/or modifications to the project plans and procedures discussed in this report.

### 5.3 Field and Analytical QA/QC

Field and analytical QA/QC procedures will be implemented ensure the collected confirmation samples are of acceptable quality.

#### **5.3.1** Field QA

Field representatives will wear a new pair of disposable nitrile sampling gloves during collection of each sample. Soil sampling equipment (i.e. hand auger and trowel) will be decontaminated before each use with a scrub brush and Alconox® cleaning solution, followed by a double rinse with distilled water.

Pre-cleaned, unpreserved sample containers will be supplied by the laboratory. After sample collection, the containerized samples will be kept cool (i.e., kept on ice) until delivery to the analytical laboratory. Field representatives will follow chain-of-custody procedures to document the sample handling sequence. Sample handling and custody requirements, laboratory analytical methods, analysis reporting limits, QA/QC procedures, and reporting protocols will be consistent with those described in the City of Olympia's USEPA-approved Generic Quality Assurance Project Plan (PIONEER 2020).



# 5.3.2 Field and Analytical QC

Field personnel will collect one duplicate soil sample per every 20 primary soil samples to evaluate matrix homogeneity and the precision of sampling activities and laboratory equipment. Sufficient volumes of soil will be collected to allow the laboratory to prepare and analyze matrix spike and matrix spike duplicate samples to evaluate constituent recovery and precision in the sample matrix by the laboratory. Additionally, an aqueous equipment blank will be collected to evaluate the potential for cross-contamination during sampling.



# **SECTION 6: SCHEDULE, REPORTING, AND COSTS**

This section presents an estimated schedule, costs to complete the Interim Action, and a description of required reporting.

# 6.1 Schedule and Reporting

Following Ecology approval, the Interim Action described herein will be completed. Excavation activities are estimated to take two days. Ecology will be notified a minimum of seven calendar days before construction work commences.

Upon completion of Interim Action fieldwork, a report that describes the field activities will be prepared and submitted to Ecology for review and approval by the Licensed Washington Geologist of Record overseeing the project. The report will include waste manifests, calculations of volume of soil removed, laboratory analytical results for the collected confirmation samples, field notes, tables summarizing the analytical results, and figures showing the extent of excavation and remaining in place soil concentrations throughout the Site.

Rather than a standalone report, the results of the Interim Action may be incorporated into the RI Report for the Site in order to facilitate a quicker receipt of an updated NFA opinion from Ecology.

#### **6.2** Estimated Costs

A detailed cost estimate for the Interim Action is shown in Table 2. The total estimated cost for the Interim Action, including environmental consultant oversight, contractor time and materials, required permits and HASP development, and project management tasks is \$82,147.

Note that costs associated with enrolling in Ecology's Voluntary Cleanup Program (VCP) and achieving a NFA opinion from Ecology are not included in the Interim Action costs. Ecology's costs are for document review and technical assistance. Two potential VCP options exist to obtain an NFA (standard versus expedited VCP). The expedited VCP has a \$3,000 enrollment fee and a \$20,000 prepayment required but is generally a quicker turnaround. However, the Ecology project manager for the Site, Mr. Frank Winslow, has stated that he has time to manage the project as a Standard VCP site which will result in decreased fees from Ecology due to the Ecology project manager only charging for his review time.



# **SECTION 7: REFERENCES**

- Ecology. 2020. No Further Action Letter, Boulevard Nursery, 2021 Boulevard Road SE, Olympia, Washington. October.
- Ecology. 2021. Rescission of No Further Action (NFA) Status for the following Site: Boulevard Nursery, 2021 Boulevard Road SE, Olympia, Washington. June.
- PIONEER. 2020. Quality Assurance Project Plan for the City of Olympia's Brownfield Assessment Grant. March.
- PIONEER. 2021a. Phase I Environmental Site Assessment. 2021 Boulevard Road SE, Olympia, Washington. July.
- PIONEER. 2021b. Phase II Environmental Site Assessment. 2021 Boulevard Road SE, Olympia, Washington. August.



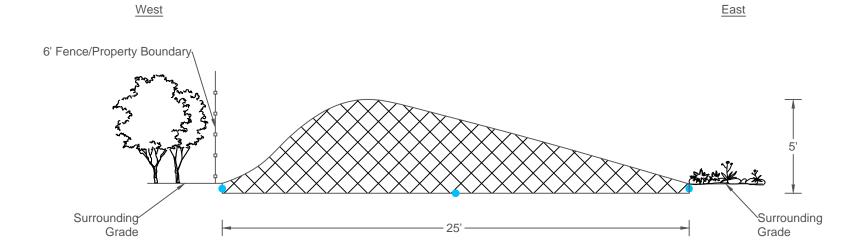
Current and Historical Features Diagram 2021 Boulevard Road SE Olympia, Washington



Sample Locations and Results Diagram 2021 Boulevard Road SE Olympia, Washington



Plan View of Proposed Interim Action 2021 Boulevard Road SE Olympia, Washington



#### Legend

- Proposed Confirmation Sample Locations
- Proposed Extent of Excavation (approximately 6 inches below surrounding grade)





Cross-Sectional View of Proposed Interim Action 2021 Boulevard Road SE Olympia, WA

# Tables



Table 1: Summary of 2009 through 2021 Soil Analytical Results

	Soil Screening Levels <sup>1</sup> Sample Location, Depth Interval (in Feet bgs), and Sample Date																									
	MTCA Method B		S-1	S-2	S-3	S-4	S-5	S-6	S-7	WM#1	WM#2	WM#3	PTC-SB1	PTC-SB1	PTC-SB2	PTC-SB2	PTC-SB3	PTC-SB3	PTC-SB4	PTC-SB4	PTC-SB5	PTC-SB5	PTC-SB6	PTC-SB6	PTC-SB7	PTC-SB7
	Cleanup Level (CLARC	Simplified TEE Concentration	1'	1'	1'	1'	1'	1'	1'	1'	1'	1'	0-1'	2-4'	0-1'	0-1'	0-1'	2-4'	0-1'	3-5'	0-1'	3-5'	0-1'	3-5'	0-1'	4-6'
Constituent	Database) (mg/kg)	(Table 749-2) (mg/kg)	4/23/09	4/23/09	4/23/09	8/24/20	8/24/20	8/24/20	8/24/20	4/22/21	4/22/21	4/22/21	7/27/21	7/27/21	7/27/21	Duplicate	7/27/21	7/27/21	7/27/21	7/27/21	7/27/21	7/27/21	7/27/21	7/27/21	7/27/21	7/27/21
Aldrin	0.059	0.17	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.011 U	0.0095 U	0.011 U	0.0099 U	0.011 U	0.0099 U	0.0095 U	0.010 U	0.011 U	0.0096 U	0.0099 U	0.0094 U	0.011 U	0.010 U	0.011 U	0.010 U	0.011 U
Alpha BHC	0.16	10 <sup>(2)</sup>	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.017 U	0.014 U	0.017 U	0.015 U	0.016 U	0.015 U	0.014 U	0.015 U	0.016 U	0.014 U	0.015 U	0.014 U	0.016 U	0.015 U	0.017 U	0.015 U	0.017 U
Beta BHC	0.56	10 <sup>(2)</sup>	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.017 U	0.014 U	0.017 U	0.015 U	0.016 U	0.015 U	0.014 U	0.015 U	0.016 U	0.014 U	0.015 U	0.014 U	0.016 U	0.015 U	0.017 U	0.015 U	0.017 U
Delta BHC	No Value	10 <sup>(2)</sup>	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.017 U	0.014 U	0.017 U	0.015 U	0.016 U	0.015 U	0.014 U	0.015 U	0.016 U	0.014 U	0.015 U	0.014 U	0.016 U	0.015 U	0.017 U	0.015 U	0.017 U
Gamma BHC	0.91	10 <sup>(2)</sup>	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.011 U	0.0095 U	0.011 U	0.0099 U	0.011 U	0.0099 U	0.0095 U	0.010 U	0.011 U	0.0096 U	0.0099 U	0.0094 U	0.011 U	0.010 U	0.011 U	0.010 U	0.011 U
Heptachlor	0.22	0.60 (3)	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.011 U	0.0095 U	0.011 U	0.0099 U	0.011 U	0.0099 U	0.0095 U	0.010 U	0.011 U	0.0096 U	0.0099 U	0.0094 U	0.011 U	0.010 U	0.011 U	0.010 U	0.011 U
Heptachlor epoxide	0.11	0.60 (3)	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.011 U	0.0095 U	0.011 U	0.0099 U	0.011 U	0.0099 U	0.0095 U	0.010 U	0.011 U	0.0096 U	0.0099 U	0.0094 U	0.011 U	0.010 U	0.011 U	0.010 U	0.011 U
alpha-Chlordane	2.9	1.0 (4)	ND	ND	ND	0.0095 U	0.0093 U	0.018	0.011 U	0.018	0.019	0.020	0.015 U	0.016 U	0.015 U	0.014 U	0.017	0.016 U	0.017	0.015 U	0.014 U	0.016 U	0.015 U	0.017 U	0.018	0.017 U
gamma-Chlordane	2.9	1.0 (4)	ND	ND	ND	0.0095 U	0.0093 U	0.010	0.011 U	0.017 U	0.014 U	0.017 U	0.015 U	0.016 U	0.015 U	0.014 U	0.015 U	0.016 U	0.014 U	0.015 U	0.014 U	0.016 U	0.015 U	0.017 U	0.015 U	0.017 U
Dieldrin	0.063	0.17	ND	0.038	ND	0.034	0.054	0.010 U	0.011 U	0.046	0.29	0.049	0.88	0.049	0.070	0.010	0.33	0.075	0.062	0.070	0.020	0.011 U	0.037	0.067	0.13	0.021
4,4´-DDE	2.9	1.0 (5)	0.14	0.12	ND	0.030	0.0093 U	0.010 U	0.011 U	0.050	0.032	0.052	0.023	0.031	0.0099 U	0.0095 U	0.043	0.12	0.032	0.16	0.0094 U	0.024	0.024	0.030	0.062	0.069
4,4´-DDD	2.4	1.0 (5)	0.064	0.034	ND	0.012	0.0093 U		0.011 U	0.076	0.014 U	0.017 U	0.015 U	0.016 U	0.015 U	0.014 U	0.015 U	0.016 U	0.014 U	0.11	0.014 U	0.016 U	0.015 U	0.017 U	0.018	0.051
4,4´-DDT	2.9	1.0 (5)	0.036	0.014	ND	0.034	0.0093 U	0.010 U	0.011 U	0.20	0.074	0.15	0.034	0.026	0.015 U	0.014 U	0.073	0.019	0.043	0.32	0.14 U	0.16 U	0.15 U	0.17 U	0.15 U	0.17 U
Endrin	24	0.40	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.021	0.014 U	0.061	0.015 U	0.016 U	0.015 U	0.014 U	0.015 U	0.016 U	0.014 U	0.20	0.014 U	0.016 U	0.017	0.017 U	0.015 U	0.062
Endosulfan I	No Value	No Value	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.011 U	0.035	0.011 U	0.024	0.011 U	0.0099 U	0.0095 U	0.010 U	0.011 U	0.0096 U	0.0099 U	0.0094 U	0.025	0.010 U	0.011 U	0.010 U	0.011 U
Endosulfan II	No Value	No Value	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.025	0.014 U	0.017 U	0.015 U	0.016 U	0.015 U	0.014 U	0.015 U	0.016 U	0.014 U	0.024	0.014 U	0.016 U	0.015 U	0.017 U	0.015 U	0.017 U
Endrin aldehyde	No Value	No Value	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.017 U	0.014 U	0.017 U	0.015 U	0.016 U	0.015 U	0.014 U	0.015 U	0.016 U	0.014 U	0.015 U	0.014 U	0.016 U	0.015 U	0.017 U	0.015 U	0.017 U
Endosulfan sulfate	480	No Value	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.017 U	0.014 U	0.017 U	0.015 U	0.016 U	0.015 U	0.014 U	0.015 U	0.016 U	0.014 U	0.015 U	0.014 U	0.016 U	0.015 U	0.017 U	0.015 U	0.017 U
Endrin ketone	No Value	No Value	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.038	0.014 U	0.017 U	0.023	0.016 U	0.015 U	0.014 U	0.015 U	0.016 U	0.014 U	0.050	0.014 U	0.016 U	0.015 U	0.017 U	0.015 U	0.017 U
Methoxychlor	400	No Value	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.13	0.019 U	0.022 U	0.020 U	0.022 U	0.020 U	0.019 U	0.020 U	0.022 U	0.019 U	0.20 U	0.19 U	0.22 U	0.20 U	0.22 U	0.20 U	0.22 U
Toxaphene	0.91	No Value	NA	NA	NA	0.095 U	0.093 U	0.10 U	0.11 U	0.077 U	0.067 U	0.077 U	0.069 U	0.076 U	0.069 U	0.067 U	0.071 U	0.076 U	0.067 U	0.069 U	0.066 U	0.076 U	0.072 U	0.077 U	0.072 U	0.078 U

#### Notes:

RCRA Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) were also analyzed at locations S-1 through S-3. All analyzed metals concentrations were below MTCA soil screening levels.

Feet bgs: feet below ground surface, No Value: a screening level cannot be calculated because no values exist in CLARC (Ecology 2021) or Table 749-2, mg/kg: milligrams per kilogram, U: constituent not detected at listed reporting limit. Results shown for PTC-SB2 are the average of the duplicate samples. Refer to laboratory analytical reports in Appendix B for individual results.

NA: it is unclear if constituent was analyzed during 2009 sampling event. "Other pesticides" are not described in the associated laboratory report.

ND: not detected above the laboratory reporting limit, which not provided in historical environmental reports.

Bold compounds were detected at the shown concentration.

The highlighted concentration exceeds the listed screening level.

1 Screening levels shown are the more restrictive of the Method B direct contact non-cancer (Equation 740-1) or cancer (Equation 740-2) cleanup level. Simplified TEE concentrations for unrestricted land use are those shown in MTCA Table 749-2.

<sup>&</sup>lt;sup>2</sup> TEE Concentration for sum of BHCs.

<sup>&</sup>lt;sup>3</sup> TEE Concentration for sum of heptachlor and heptachlor epoxide.

<sup>&</sup>lt;sup>4</sup> TEE Concentration for sum of chlordanes

 $<sup>^{\</sup>rm 5}$  TEE Concentration for sum of DDT, DDE, and DDD.

# REVISED for CITY



# Table Detailed Cost Estimate for Interim Action

					Estima	ted Lev	Estimater sts					
			Prin.	Sr. Eng.	Eng. Sci. Proj. Staff AA					sk Total		
Task	Task Purse	Key Assumptions	<b>\$185</b>	\$170	<b>\$160</b>	<mark>\$125</mark>	<b>\$110</b>	\$70	ODCs		ODCs	Total
Pre- mobilization preparation and coordination		It is assumed that subtasks will include (1) HASP-related tasks (e.g., prepare HASP update, conduct project safety analysis, prepare documentation required the HASP), (2) perform public utility locates, (3) coordinate and subcontract which becontractors, labs, and equipment suppliers, (4) coordinate Site access, (5) obtain required permits (e.g. City of ampia grading permit).	2		20		4		⊅1,100	\$4,090	\$1,188	\$5,278
Interim Action Field Work	remove pesticide- contaminated soil berm and collect soil samples from excavation boundaries	It is assumed (1), the excavation will be completed by a licensed contractor with experience performs, similar scopes of work and certified to handle contaminated materials (1). HAZWOPER trained), (2) the excavation work will be generally consistent with a SOW and assumptions included in the attached DH Environmental cost proposar, and August 23, 2021 (see Appendix B), (3) there will not be evidence of a new house that will require notification to Ecology, (4) no excavation dewatering who conducted, (5) no excavation shoring will be required, (6) no demolition, remail, or replacement of any utilities will be conducted, (7) no backfill or compound will be required, (8) of staff level geologist/engineer will oversee all excavation extivities, collection samples, and document progress, (9) the excavation will be penalted (11) no over-excavation will be required, (11) no over-excavation will be required, (11) excavation and of the disposar, backen to longer than two days, and (12) contractor costs and p to two days will be to \$62,000.			4		20		\$62,000	\$2,897	\$66,960	\$69,857
Laboratory Analysis	Analyze soil samples collected from the final excavation extent	It is assumed (1) up to 15 soil samples will collected for laboratory analysis, (2) soil samples will be analyzed for concochlorine pesticides via EPA Method 8081, and (3) samples will be an analysis with a standard turnaround time.					2		\$1,950	\$224	\$2,106	\$2,330
Reporting	Document the findings of the Interim Action in a summary memorandum	It is assumed that the seconary memo will consist of signed waste manifests, calculations of volution of soil removed, laboratory analytical results for the collected configuration samples, field notes, tables summarizing the analytical results, apart pures showing the extent of excavation and remaining in place soil concernations throughout the Site.	2		16					\$3,886	\$0	\$3,886
Project management	Manage the SOW, budget, and schedule, and facilitate discussions necessary	ask.			4			2		\$796	\$0	\$796
		SUBTOTAL	4	0	44	0	34	2	\$65,050	\$11,895	\$70,254	\$82,147

#### Notes:

Other direct cost DCs) billed at cost plus 8%.

Vehicle Miles is charged at the current Internal Revenue Service mileage rate.

# Appendix A

# City of Olympia EPA Brownfields Grant, BF-01J66201 Inadvertent Discovery Plan – July 2021

# Discovery Procedures for Recording of Incidental Features and Artifacts

If cultural materials or features are discovered during environmental site assessments, the on-site field supervisor will immediately halt work at that location and notify the City of Olympia's Project Manager and the City of Olympia's Consultant Archaeologist. Incidental or demonstrably non-NRHP eligible cultural materials or features include—but are not limited to—isolated pre-contact or historic period artifacts, and cultural materials younger than 50 years old. The discovery area and a surrounding buffer zone shall then be delineated with flags tied to long stakes that are driven in to the ground. These stakes shall not be removed. The City of Olympia's Consultant Archaeologist will thoroughly document and sample the cultural material. The buffer zone established around the discovery zone shall be large enough to allow ground disturbance activities to resume outside the buffer.

### Protocol for Inadvertent Discovery of Potentially NRHP Eligible Cultural Resources

If potentially NRHP eligible cultural resources are discovered, the on-site field supervisor will immediately halt work at that location and notify the City of Olympia's Project Manager. Potentially NRHP eligible cultural materials include; evidence of prehistoric or historic features including postholes/molds, hearths, pits, walls, foundations, and other evidence of structural remains; shell midden, non-human bone, lithic debitage, formed-stone –bone –shell –wood or –fiber implements, historic-period glass and ceramics. The discovery area and a surrounding buffer zone will then be delineated with flags tied to long stakes that are driven in to the ground. These stakes shall not be removed. The buffer zone established around the discovery zone shall be large enough to allow ground disturbing activities to resume outside the buffer. The City of Olympia's Consultant Archaeologist will then coordinate with the field team to determine whether further impacts to the NRHP eligible cultural resources can be avoided in which case the Consultant Archaeologist will thoroughly document and sample the disturbed cultural material. If further impacts to the NRHP eligible cultural resources cannot be avoided, the City of Olympia's Project Manager, in coordination with the City's Consultant Archaeologist, shall notify affected Tribes and the DAHP. The City of Olympia and the Environmental Protection Agency (EPA), in consultation with the DAHP and affected Tribes, will determine the next course of action.

# **Standard Protocol for Inadvertent Discovery of Human Remains**

If during site assessment activities, or any other ground disturbing activities any bone(s) that may be human, or any funerary object, is discovered, all activity at and in the vicinity of the discovery will cease immediately. No additional earth disturbing activities shall occur and the area of discovery and a surrounding buffer zone shall then be delineated with flagging tied to long stakes that are driven in to the ground. The buffer zone established around the periphery of the possible human remains shall be sufficient in extent to allow the contractor to conduct ground disturbing activities as near to the flagged-off area as necessary, as long as the stakes and flagging are not disturbed.

If an archaeological construction monitor is not present at the time that any bone(s) that may be human, or any possible funerary object, is inadvertently discovered during construction, the on-site field supervisor shall first ensure the discovery area, and a sufficient buffer zone around it, is flagged-off and secured from further disturbance, and second, immediately contact the City of Olympia's Project Manager, or alternative, as listed below. The City of Olympia's Project Manager, in

coordination with the City's Consultant Archaeologist, will immediately notify the affected Tribe (contacts listed below) and send the City of Olympia's Consultant Archaeologist to examine the bone or possible funerary object. If the bone cannot be positively identified as non-human by the Consultant Archaeologist, he or she will seek the assistance of a physical anthropologist to identify the bone. No additional excavation in the flagged-off area shall be carried out until such time as the bone(s) can be positively confirmed as non-human. If confirmed to be human, the steps listed below shall be followed.

**Step 1.** Immediately notify (verify and update prior to start of field work):

Olympia Police Department: Aaron Jelcick (360) 704-2740 Thurston County Coroner: Gary Warnock (360) 867-2140 Squaxin Island Tribe: Rhonda Foster (360) 432-3836

**DAHP:** Guy Tasa, State Physical Anthropologist, (360) 790-1633

- **Step 2.** The Coroner will make a determination as to whether the remains are forensic or nonforensic within five days, provided that such a determination can be made in that time period based on the skeletal human remains present. If the Coroner determines the remains are forensic, the Coroner and the Olympia Police Department will retain jurisdiction over the remains and the find location. Upon determination the remains are non-forensic, the remains will be examined by the State Physical Anthropologist at the DAHP. Final disposition of human remains will be determined by the DAHP, under consultation with the City of Olympia, the EPA, the Squaxin Island Tribe (if Native American), and appropriate local cemeteries.
- **Step 3.** Exposed human remains and any associated or non-associated funerary objects will be treated with respect. If Native American, no additional excavation of these remains and/or funerary objects will take place without Tribal and DAHP consent, and no exposed remains or funerary objects will be left unattended in the field unless the Squaxin Island Tribe requests otherwise.
- **Step 4.** The construction delay in the flagged-off area will not end until the proper authorities, including, but not limited to the Coroner, the Olympia Police Department, the DAHP, and the Squaxin Island Tribe (if Native American) have determined proper disposition of the remains and have given permission, in writing, to proceed.
- **Step 5.** The City of Olympia's Consultant Archaeologist will prepare a report for DAHP that describes the discovery, notification of concerned parties, steps taken in response to the discovery, and the final disposition of remains.

### **Project Contacts**

**City of Olympia Project Manager:** 

Mike Reid, Economic Development Director, (360) 753-8591

**Environmental Protection Agency Brownfields Project Officer:** 

Susan Morales, (206) 553-7299

# Appendix B



#### **PRICING PROPOSAL**

DATE: August 23, 2021

# REVISED for CITY

Prepared For: Joel Hecker, LG, PG Senior Scientist/Geologist

Pioneer Technologies Corpora 5205 Corporate Ctr. Ct. SE, Suita Olympia, WA 98503 Prepared By: Scott St. John

Project Services Director DH Environmental, Inc. 1011 SW Klickitat Way Suite 107 Seattle, WA 98134 Phone: (206) 327-0026

Fed. ID # 57-1 77
WA UBI# 66 251
WA CLB# VEIR71NB
USDOT# 10590017912

Project Reference: Pricing Proposal for a varion, loading, transport and disposal of approximately 350 cubic yards (500 tons) of Dieldrin-contaminated from 2021 Boulevard Road, SE, Olympia WA

The scope of work includes excavating, loading, transport and disposing of approximately 350 cubic yards (up to 500 tons) of Dieldrin-contaminated soil at the above-referenced developments, transport of shipping documents, transport of the provided and will include the provided and will be provided

#### Assumptions/Exclusions:

Estimate 2 days on site - including mobilization site prep, soil excava and off-site transportation and deposal, and site restoration (street sweeping, as needed).

Permits (other than soil disposal and City of Olympia fire hydrant use permits (other than soil disposal and City of Olympia fire hydrant use permits (other than soil disposal and City of Olympia fire hydrant use permits (other than soil disposal and City of Olympia fire hydrant use permits).

Demolition/removal/replacement of subsurface utilities is excluded - DHE share the 811 call before you dig and private utility locating services to mark identified as within the excav ation area

Since the site will undergo development upon the completion of our work, provide a sing and compacting import backfill materials, in addition to other site site of the site o

DHE assumes excavated soils will be consistent for disposal at a Subtitle D landfill.

DHE shall hire a vacuum street sweeping service to sweep the adjacent streets and any oth ed/parking areas utilized forstaging or site access at the pletion of our work.

Below is the ROM cost estimate required to complete the Work. For budgeting purposes, DHF remainded to the stimated costs.

Proposal pricing excludes applicable WSST, and the project is assumed to be non-prevailing wage.

Equipment Operator - Overtime and Saturdays	Labor Rates						
Sequence	Project Manager	30	hr.	\$	125.00	\$	3,750.00
Equipment Operator - Stripper Time (1)   16	Equipment Operator - Straight Time (2)	16	hr.		85.00	\$	1,360.00
A	Equipment Operator - Overtime and Saturdays	4	hr.		115.00	\$	460.00
Professional Engineer / Safety Manager HASP Prep - Review	Laborer / Equipment Operator - Straight Time (1)	16	hr.	\$	65.00	\$	1,040.00
Equipment   Color   Truck   Color	Laborer / Equipment Operator - Overtime and Saturdays	4	hr.	\$	95.00	\$	380.00
Color   Truck   Color   Colo	Professional Engineer / Safety Manager HASP Prep - Review	2	hr.	\$	165.00	\$	330.00
Clear Truck     2							
DOT Stakehed Truck	Equipment						
Nours   Nour			Day			\$	160.00
Pressure Washer    1		-	Day		140.00	\$	280.00
Miscellaneous Materials/TESCs		0	hours			\$	-
Small Tools/Equipment		1	Day		120.00	\$	120.00
Excavator - 30-40K - dig and grade buckets   1		_					
End-Loader, 3-4 cyd with bucket and forks  1		1	LS			\$	
Portable toilet - wash station Equipment Move-in-Move-out Taxes/Surcharges on Rental Equipment Level DPE Explosion/Oxygen Meter Disposal  Transport & Dispose Dieldrin-Contaminated soils - Subtitle D Disposal  Transport & Dispose Dieldrin-Contaminated soils - Subtitle D Disposal  Transport & Dispose Dieldrin-Contaminated soils - Subtitle D Disposal  Transport & Dispose Dieldrin-Contaminated soils - Subtitle D Disposal  Transport & Dispose Dieldrin-Contaminated soils - Subtitle D Disposal  Transport & Dispose Dieldrin-Contaminated soils - Subtitle D Disposal  Transport & Dispose Dieldrin-Contaminated soils - Subtitle D Disposal  Transport & Dispose Dieldrin-Contaminated soils - Subtitle D Disposal  Transport & Dispose Dieldrin-Contaminated soils - Subtitle D Dispose of Non-Regulated fuel/water mix  O Gal S 0.76 S - Materials / Supplies/Other Direct Costs  Backfill - CSTC/CSBC O S S 5.0.00 S - Waste Disposal Profile - Permits D D D D D D D D D D D D D D D D D D D		1	Week		3,050.00	\$	3,050.00
Equipment Move-in-Move-out Taxes/Surcharges on Rental Equipment Level D PPE Suplosion/Oxygen Meter Disposal Transport & Dispose Dieldrin-Contaminated soils - Subtitle D Dispose of Non-Regulated fuel/water mix OGAI SSOUNT SSOUN		1	Week			\$	
Taxes/Surcharges on Rental Equipment Level D PPE Disposary  Transport & Dispose Dieldrin-Contaminated soils - Subtitle D Disposary  Transport & Dispose Dieldrin-Contaminated soils - Subtitle D Dispose of Non-Regulated fuel/water mix Dispose of Non-Regulated fuel/water mix Dispose O Gal \$ 0.76 \$ - Gal \$ 0.	Portable toilet - wash station	1	LS			\$	
Level D PPE Explosion/Oxygen Meter  Disposed  Transport & Dispose Dieldrin-Contaminated soils - Subtitle D  Dispose of Non-Regulated fuel/water mix  O  Gal  \$ 0.76  \$ -  Whan-Day  \$ 35.00  \$ 41,000.00  Dispose Dieldrin-Contaminated soils - Subtitle D  Tons  \$ 82.00  \$ 41,000.00  Dispose of Non-Regulated fuel/water mix  O  Gal  \$ 0.76  \$ -  Whaterials / Supplies/Other Direct Costs  Backfill - Quarry Spalls  Backfill - CSTC/CSBC  O  S  \$ 45.00  \$ 5 -  Waste Disposed Profile - Permits  Utility Locate  Vacuum Street Sweeping  Fuel Surcharge  We propose to furnish labor and materials is a specified only a specifications involving entra costs will be excited only sensitive from the scope of work for the stated sum plus only price if a pplicable. Payment terms are net 30 days. All materials is a specified only a specifications involving entra costs will be executed only sensiting Service. Agreements as applies of the price Estimate by the Customer's receipt of and agreement to the Pricing Proposal and the applicable Terms and Conditions.	Equipment Move-in=Move-out	4				\$	880.00
Explosion/Oxygen Meter  Day \$ 80.00 \$			LS		1,750.00	\$	1,750.00
Dispose Dispose Dieldrin-Contaminated soils - Subtitle D  500  Tons \$82.00 \$41,000.00  Dispose of Non-Regulated fuel/water mix  0 Gal \$0.76 \$  Recycle Asphalt  0 tons \$35.30 \$  Materials / Supplies/Other Direct Costs  Backfill - CSTC/CSBC  Backfill - CSTC/CSBC  0 S \$50.00 \$  S \$45.00 \$  S \$45.0			Man-Day		35.00	\$	210.00
Transport & Dispose Dieldrin-Contaminated soils - Subtitle D  500  Tons  \$ 82.00  \$ 41,000.00  Dispose of Non-Regulated fuel/water mix  0  Gal  \$ 0.76  \$ -  Contaminated Soils - Subtitle D  Tons  \$ 82.00  \$ 41,000.00  Gal  \$ 0.76  \$ -  Contaminated Soils - Subtitle D  Tons  \$ 82.00  \$ 41,000.00  Tons  \$ 82.00  \$ 41,000.00  Tons  \$ 82.00  \$ 41,000.00  Tons  \$ 82.00  \$ 0  Tons  \$ 50.00  \$ -  Contaminated Soils - Subtitle D  Tons  \$ 82.00  \$ 41,000.00  Tons  \$ 82.00  \$ 0  Tons	Explosion/Oxygen Meter		Day	\$	80.00	\$	-
Dispose of Non-Regulated fuel/water mix  Recycle Asphalt  0 tons \$ 0.76 \$ -  Materials /Supplies/Other Direct Costs  Backfill - Quarry Spalls  Backfill - CSTC/CSBC  Waste Disposal Profile - Permits  1 1 5 300.00 \$ -  Waste Disposal Profile - Permits  1 1 5 \$ 300.00 \$ 300.00  Utility Locate  Vacuum Street Sweeping  Fuel Surcharge  4 Hrs. \$ 200.00 \$ 800.00  We propose to formish labor and materials for several configurations are several configurations and materials for general configurations are several configurations and materials for several configurations are several configurations and configurations and better configurations.  SUBTOTAL \$ 62,000.00	Disposal						
Materials / Supplies/Other Direct Costs  Backfill - Quarry Spalls  Backfill - CSTC/CSBC  0 S \$ 50.00 \$ -  Waste Disposal Profile - Permits  1 Is \$ 300.00 \$ \$ 300.00  Utility Locate  1 LS \$ 470.00 \$ 470.00  Vacuum Street Sweeping  Fuel Surcharge  4 Hrs. \$ 200.00 \$ \$ 800.00  Utility Locate  We propose to furnish labor and materials in a supplicable for the stated sum plas unit price if a palicable. Payment term are net 30 days. All materials are supplied for a supplicable for	Transport & Dispose Dieldrin-Contaminated soils - Subtitle D	500	Tons	\$	82.00	\$	41,000.00
Materials / Supplies/Other Direct Costs  Backfill - Quarry Spalls  Backfill - CSTC/CSBC  0 1 5 45.00 \$  - Waste Disposal Profile - Permits  1 5 \$ 300.00 \$ 300.00  Lillity Locate  1 LS \$ 470.00 \$ 470.00  Avacuum Street Sweeping  Fuel Surcharge  1 LS \$ 800.00 \$ 800.00  We propose to furnish labor and materials in LS \$ 800.00 \$ 800.00  We propose to furnish labor and materials in LS \$ 800.00 \$ 800.00  We propose to furnish labor and materials in LS \$ 800.00 \$ 800.00  Second Street Sweeping S Second Street Sweeping Second Sweeping Second Street Sweeping Second Sweeping Sweeping Second Sweeping	Dispose of Non-Regulated fuel/water mix	' 0	Gal	\$	0.76	\$	-
Backfill - Quarry Spalls Backfill - CSTC/CSBC 0 0 \$ 5 45.00 \$ 5 -	Recycle Asphalt	. 0	tons	\$	35.30	\$	-
Backfill - Quarry Spalls Backfill - CSTr/CSBC  0							
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Vacuum Street Sweeping Fuel Surcharge  4 Hrs. \$ 200.00 \$ 800.00  \$		1				-	
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	TOTAL	\$	62,000.00
accepted By:		6	

Printed Name and Title