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DRAFT RI WORK PLAN

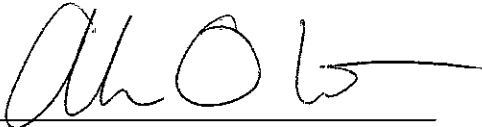
Former International Petroleum Distributors Site
1117 West Bay Drive
Olympia, Washington

Delta Project G0CLG-BP60-1

February 14, 2007

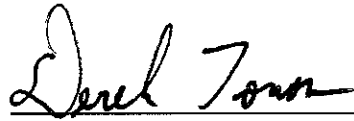
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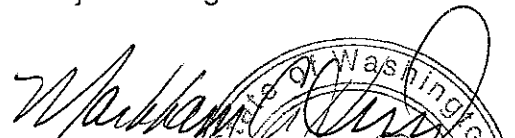


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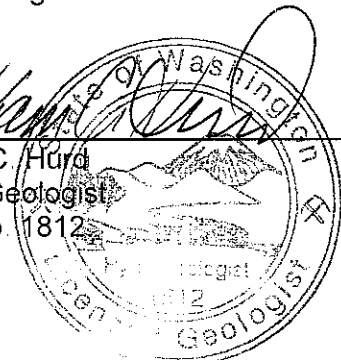
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APPENDICES

Appendix A	Copy of October 24, 2005 letter from the Washington Department of Ecology to Atlantic Richfield Company and the Disclaimer Trust of John J. O'Connell
Appendix B	Copy of July 31, 2006 letter from the Washington Department of Ecology to Atlantic Richfield Company and the Disclaimer Trust of John J. O'Connell
Appendix C	Site-Specific Health and Safety Plan for RI Field Activities

DISTRIBUTION

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1.0 INTRODUCTION

On behalf of Atlantic Richfield Company (Atlantic Richfield), Delta Environmental Consultants, Inc (Delta) is pleased to submit this Work Plan to the Washington State Department of Ecology (Ecology) describing future investigation activities at the former International Petroleum Distributors (IPD) Site (the site) This Work Plan is submitted in response to and to help fulfill closure criteria as described in an initial letter dated October 24, 2005 and amended by a letter dated July 31, 2006 from Ecology to Atlantic Richfield and the Disclaimer Trust of John J O'Connell (the Trust). A copy of the October 24, 2005 letter (Directive Letter) is included in Appendix A and a copy of the July 31, 2006 (Amendment Letter) is included in Appendix B

This Work Plan briefly describes the site location and background and summarizes the principal requirements of the Directive Letter and Amendment Letter. The proposed scope of work to fulfill Ecology's requirements was prepared in accordance with the procedures for conducting a RI stated in Chapter 173-340-350 of the Washington Administrative Code (WAC) and includes the following:

- A Sampling and Analysis Plan prepared according to the requirements stated in Chapter 173-340-820 WAC and Chapter 173-204 WAC
- A Health and Safety Plan presented in Appendix C prepared according to Chapter 173-340-810 WAC

2.0 SITE LOCATION AND BACKGROUND

The site, as defined by Ecology, includes two separate parcels located on the east and west sides of West Bay Drive in Olympia, Washington, as well as the area between them where West Bay Drive and active railroad tracks are located. The site location is shown on Figure 1. The parcel located on the east side of West Bay Drive is owned by the Port of Olympia (the Port) and is hereafter referred to as the Port property. The parcel located on the west side of West Bay Drive is owned by the Trust and is referred to as the former International Petroleum Distributors (IPD) site. Ecology applies the former IPD site address (1117 West Bay Drive, Olympia, Washington) to the site as a whole.

The former IPD site was previously used by Atlantic Richfield and IPD as a bulk petroleum storage facility (bulk plant). An underground pipeline originating on the Port property and terminating in the north portion of the IPD site was used by Atlantic Richfield and IPD to transfer petroleum products from barges into above ground storage tanks (ASTs). The pipeline route passed beneath the railroad tracks and West Bay Drive. The site features such as buildings, loading racks, and ASTs at the former IPD site have been removed and

portions of the site have been redeveloped. The Port property is currently vacant and site features are shown on Figure 2.

Petroleum releases associated with the former bulk plant activities resulted in petroleum hydrocarbon-related soil and groundwater impacts at the site. For the past several years, investigation and cleanup of the site was performed by the responsible parties (RPs), namely Atlantic Richfield and the Trust. The Directive Letter and Amendment Letter from Ecology are intended to direct supplemental investigation and final cleanup of the constituents of concern (COCs) in soil and/or groundwater beneath the site and in sediments in the vicinity of the former pier. Other activities, such as investigating and properly abandoning or removing the product pipeline, are also described in the Directive Letter and are included in the scope of the remedial investigation.

3.0 PURPOSE AND OBJECTIVES

3.1 Purpose

The purpose of this Work Plan is to describe the sample locations, field procedures, sample analysis, and health and safety procedures that will be followed for soil, groundwater, and sediment sampling, and other related activities performed as part of the remedial investigation (RI). The RI will obtain environmental information regarding specific site areas or site features that are identified in the Directive and Amendment Letters. A site plan showing principal site features and previous sampling locations is shown on Figure 2.

Based on the results of previous investigations, a formal list of known COCs in soil and groundwater has been identified. The COCs for the site include:

- Total petroleum hydrocarbons as gasoline (TPHg);
- Total petroleum hydrocarbons as diesel (TPHd);
- Volatile organic compounds (VOCs);
- Carcinogenic polycyclic aromatic hydrocarbons (cPAHs); and,
- RCRA 8 total metals (soil samples only) and dissolved metals (groundwater samples only).

The COC list represents constituents that pose potential risks to human health and/or the environment. The Directive Letter from Ecology references information and data from previous site investigations indicating that COC concentrations exceeding MTCA Method A cleanup criteria are present or are suspected to be present at the following locations:

- In soil in the north portion of the Port property;
- In groundwater at MW-6 and in the north portion of the Port property

The underground extent of the inactive pipeline on the Port property needs to be defined, and COC concentrations in soil surrounding the pipeline need to be evaluated so that these areas can be included in the Corrective Action Plan (CAP) if warranted.

Lastly, the potential for hydrocarbon impact to sediment will be addressed. Four sediment samples will be collected from beneath the former pier. The samples will be collected at even intervals starting at the approximate higher high water level and ending at the end of the pier to characterize the entire length of the pier.

This Work Plan is presented to Ecology for comment and approval prior to implementation. The first phase of work will include performing the RI. Information in the RI will then be used to perform the feasibility study (FS). This document addresses the specific activities to be completed during the RI.

3.2 RI Objectives

The purpose of this RI is to address Ecology's requirements identified in the Directive Letter and Amendment Letter. This will be accomplished through sampling and analysis of soil, groundwater, and sediment samples from the Port property and in the vicinity of the former pier. Planned sampling locations are shown on Figure 3.

3.2.1 Soil and Groundwater Characterization of the Port Property

Section 1a in the Directive Letter states that the extent of COC concentrations exceeding MTCA Method A cleanup levels (the cleanup levels) in soil in the north portion of the Port property needs to be defined. The table shown on page three of the Directive Letter cites specific soil samples from previous investigations that contained COC concentrations exceeding the cleanup levels. Analytical results for soil samples collected from previous investigations are summarized in Table 1.

In addition, text in section 1b of the Directive Letter cites specific groundwater samples from previous investigations that contained COC concentrations exceeding the cleanup levels. Based on historical soil and groundwater monitoring data the Port property needs to be characterized in the general vicinity of the previous sampling locations. Analytical results for groundwater samples collected during previous investigations are summarized in Table 2 and Table 3.

To complete soil characterization, hand augered soil borings (HA-1 thru HA-8, MW-6R, and MW-7 thru MW-12) will be advanced. To complete ground water characterization, borings MW-6R and MW-7 thru MW-12 will be continued with a drill rig and completed as ground water monitoring wells. Proposed boring locations are shown on Figure 3. Proposed field and analytical methods for sample collection and analysis are described in subsequent sections of this report.

3.2.2 Pipeline Locating and Soil Characterization, North Portion of Port Property

Text in section 1b of the Directive Letter indicates that COC concentrations in soil in the vicinity of the inactive product piping needs to be evaluated. The inactive pipeline is located underground beneath the northwest portion of the Port property. Known portions of underground product piping are shown on Figure 3. Soil samples will be collected at selected locations (described below) to evaluate COC concentrations. A summary of sample locations, methods, and analyses are summarized in Table 4.

3.2.3 Replacement of Monitoring Well MW-6 on the Port Property

In accordance with section 1b of the Directive Letter, one new groundwater monitoring well, MW-6R, will be installed to replace existing well MW-6, which has a submerged screen. The new well will be located near the existing well. Details regarding sampling and well construction are included in subsequent sections of this report. A summary of sample locations, methods, and analyses are summarized in Table 4.

3.2.4 Groundwater Monitoring Well Installation on the Port Property

Installation of six additional groundwater monitoring wells will be conducted on the Port Property. The wells are identified as MW-7 through MW-12 and are shown on Figure 3. Details regarding sampling and well construction are included in subsequent sections of this report. A summary of sample locations, methods, and analyses are summarized in Table 4.

3.2.5 Quarterly Groundwater Monitoring

Groundwater sampling at all wells will be performed on a quarterly basis once the MW-6 replacement well (MW-6R) and new monitoring wells (MW-7 through MW-12) are installed. Samples will be analyzed for the full list of COCs. A summary of sample locations, methods, and analyses are summarized in Table 4.

3.2.6 Sediment Sampling and Characterization

Sediment sampling will be conducted for petroleum hydrocarbons. Sampling will be performed at four locations beneath the abandoned pier that extends from the Port property into Budd Inlet. The samples will be collected at even intervals below the pier starting at the approximate higher high water level and ending

at the end of the pier to characterize sediments along the entire length of the pier. A summary of sample locations, methods, and analyses are summarized in Table 4

4.0 PROJECT PARTICIPANTS AND RESPONSIBILITIES

This section describes the roles and responsibilities of the project participants for the RI work elements.

4.1 Washington State Department of Ecology

Mr. Steve Teel, Ecology, is responsible for review and approval of this Work Plan and all other Agreed Order documents.

4.2 Responsible Parties

The RPs in these activities are Atlantic Richfield and the Trust. Atlantic Richfield and the Trust are responsible for site access and future costs associated with the work activities at the site.

4.3 Environmental Consulting Services

Delta Environmental Consultants, Inc. (Delta) and Associated Environmental Group, LLC (AEG) are the environmental consultants for Atlantic Richfield and the Trust, respectively. Currently, Delta is taking steps on behalf of Atlantic Richfield to ensure that Ecology's Directive Letter is implemented in a timely manner. Atlantic Richfield and the Trust may determine that AEG implement future work on behalf of the two RPs. In either case, the consultant performing the work will be responsible for coordination with Ecology, preparing related documents, and performing sampling and analysis activities, including managing field subcontractors and laboratories. The responsibilities related to this document include:

- Organize and provide oversight for field personnel to manage and conduct field activities
- Ensure soil and groundwater sampling is performed following the procedures and schedule set forth in this document
- Obtain authorization and access to work at the site
- Review the analytical data collected
- Prepare reports summarizing work done and the results of field operations.

4.4 Drilling Services

Cascade Drilling, Inc. (Cascade), a drilling subcontractor licensed in the State of Washington, will perform drilling services. Cascade will mobilize and demobilize the required drilling and sampling equipment to and from the site and be responsible for arriving with clean equipment; properly decontaminating equipment between each boring/sampling location and before leaving the site; and providing drilling notification,

acquiring drilling permits (start cards), and subsequent well completion reports to and/or from Ecology, as required

4.5 Analytical Laboratory Services

TestAmerica, Inc (TestAmerica) in Bothell, Washington will conduct all chemical analysis of soil, groundwater, and sediment. TestAmerica will be responsible for determining the method detection limits for each COC. TestAmerica will also be responsible for adhering to the methods specified in the QAPP, reporting requirements for deliverables, providing electronic and hard copies of deliverables, and meeting turnaround times.

5.0 PRE-FIELD ACTIVITIES

Prior to beginning any field activities, the following activities need to be completed:

- Access agreements need to be negotiated and signed with the Port and the City of Olympia to access the properties where field activities will be performed;
- Subcontractors need to be contacted, their work practices and licenses verified, and scheduled to perform the work; and,
- A site-specific health and safety plan (HASP) and associated documents will need to be prepared/revised for use by all site workers

It is expected that these activities may take up to 90 days to complete since the terms of the access agreements may have to be reviewed by multiple persons within the property owner's organization

After access agreements are signed and at least four working days prior to the beginning of field operations, the proposed borings will be marked and a one-call public utility locating request will be made to identify the locations of underground utilities in the public rights-of-way. A private utility locator will also be used to identify the locations of underground utilities on private property, and to locate the inactive product pipeline that remains on the Port property.

6.0 SAMPLING AND ANALYSIS PLAN

6.1 Soil Sampling

Soil samples will be collected from hand augered soil borings to accomplish the project objectives described above. The following paragraphs describe the planned number, location, sample analysis, procedures for sample collection and other field activities

6.1.1 Hand Augered Soil Boring Locations

Proposed boring locations are labeled HA-1 through HA-8, MW-6R, and MW-7 through MW-12 and are located on the Port property. The proposed boring locations are shown on Figure 3.

Each sampling location will be identified by a unique sample identification number, and listed in a sampling and analysis matrix that details the type and quantity of samples to be collected and analyses to be performed. The sampling matrix is provided in Table 4. A utility locate will be performed prior to drilling and locations may be adjusted accordingly.

6.1.2 Soil Sampling Equipment and Procedures for Hand Auger Borings

Soil samples will be collected using a hand auger. All borings will be monitored and recorded by or under the supervision of qualified Delta field personnel. Soil samples will be collected pursuant to EPA Method 5035A.

Two soil samples will be collected at each boring between 2.0 to 2.5 feet below ground surface (bgs) and 4.0 to 4.5 feet bgs. Historically, depth-to water measured in MW-6 ranged from 4.63 ft to 4.96 feet. Soil samples will be collected at discrete intervals using a hand auger, which will be cleaned prior to collecting each sample.

Soil samples will be screened for organic vapors using a photo-ionization detector (PID). Soil samples will be collected pursuant to EPA Method 5035A. Samples will then be placed in a field cooler and packed with ice. Standard chain-of-custody procedures will be used for all sampling events.

Each boring will be logged in accordance with standard geologic practices. Boring logs will include detailed descriptions of materials encountered during drilling, including Unified Soil Classification System {ASTM D-2488-93} classification and description, field density, moisture content, color, the presence of fill, debris, and contamination (visual or odors).

6.1.3 Soil Sample Designations

Soil samples will be assigned a unique identification code. The sample designation consists of the boring location number and the depth or depth interval. For example, the designation "HA-1, 2.0-2.5" identifies a soil sample collected from 2.0 to 2.5 feet below ground surface (bgs) at boring location HA-1.

6.1.4 Site Restoration

Immediately following completion of sampling, each boring will be backfilled with bentonite to provide an impermeable seal, as required per Chapter 173-160 WAC, Minimum Standards for Construction and Maintenance of Wells (Ecology, 1998)

6.2 Groundwater Sampling

Groundwater samples will be collected from the new permanent monitoring wells. Field and laboratory methods associated with groundwater samples are described below

6.2.1 Monitoring Well Replacement and Installation

In accordance with section 1b of the Directive Letter, one groundwater monitoring well will be installed to replace existing MW-6, which has a submerged screen. The replacement well will be located on the Port property in the immediate vicinity of MW-6. The location of the replacement well is shown on Figure 3 and is identified as MW-6R. In addition, six new monitoring wells (MW-7 through MW-12) will be installed on the Port property. The locations of the new monitoring wells are shown on Figure 3. The initial 5-feet of boring will be advanced utilizing a hand auger.

The new wells will be installed using a hollow-stem auger rig and will be advanced to approximately thirteen to fourteen feet (bgs) with a screened interval from approximately 3 feet to 13 feet bgs. This construction will provide adequate screened interval for seasonally- and tidally-influenced groundwater fluctuations. The new wells will also have elevated well monuments.

The borings will be logged to document subsurface soil conditions, depth to groundwater, and collect soil samples for field screening with a PID analysis. Soil cores will be collected continuously to the total depth of the well, if possible. Soil samples will be collected from 2.0 to 2.5 feet bgs and 4.0 to 4.5 feet bgs and submitted for laboratory analysis.

6.2.2 Groundwater Samples from New Monitoring Wells

The wells will be developed following installation by surging, bailing and/or pumping. A sufficient volume of groundwater will be removed to ensure that future groundwater samples are representative of COC concentrations and provide accurate data to evaluate groundwater flow direction and gradient. The new wells will be sampled no sooner than 48 hours after development, and the samples submitted to an Ecology-accredited laboratory (TestAmerica) for analyses.

6.3 Sediment Sampling

Sediment samples will be collected from beneath the abandoned pier using a modified 0.1 square-meter Van Veen grab sampler. The samples will be collected at even intervals starting at the approximate higher high water level and ending at the end of the pier to characterize sediments along the entire length of the pier. Sediment samples will be collected to a depth of 10 centimeters (cm) and will be submitted for HCID analysis with a screening level of 100 mg/kg and additional analyses if needed.

The samples will be collected in glass containers with polytetrafluorethylene (Teflon®)-lined caps. Each sample size should be approximately 300 grams to allow for the required analyses. Samples should not have headspace to limit volatilization of VOCs and smaller chain alkanes. Also, the samples should not be frozen to limit the possibility of container breakage.

6.4 Equipment Decontamination

All soil, groundwater, and sediment sampling equipment will be decontaminated prior to initiating sampling activities, between sampling locations, and upon completion of sampling activities. Field sampling and hand auger equipment used in the collection of soil and sediment samples will be decontaminated with an Alconox solution and rinsed with deionized water. Groundwater sampling bailers will be disposable and will not require decontamination.

6.5 Field Quality Control and Documentation

Samples will be kept in sight of the sampling crew or in a secure, locked vehicle at all times. Transfer of samples from field personnel to the laboratory will be documented using chain-of-custody procedures. If someone other than the sample collector transports samples to the laboratory, the collector will sign and date the Chain-of-Custody record and insert the name of the person or firm transporting the samples under "transported by" before sealing the container with a Custody Seal.

Field personnel will record required field information for each sampling location. The person recording the data will review all data and log forms daily, so that any errors or omissions can be corrected. All completed data sheets will be removed daily from the field, photocopied, and stored in the project file.

6.6 Location Control

Newly-installed monitoring wells will be surveyed by a licensed surveyor to determine the northing and easting coordinates, and elevation for the top of the PVC well casing. All elevations will be referenced to the datum used for the existing well. Boring locations will be surveyed using GPS and/or by measuring distances from existing base map features.

6.7 Health and Safety

A Health and Safety Plan for RI fieldwork is presented in Appendix C. The Health and Safety Plan was prepared consistent with WAC 296-843-12005 and WAC 173-340-810

6.8 Investigation-Derived Waste

All waste derived during this investigation will be placed in proper containers, labeled, and transported off site to a licensed recycling or disposal facility. Characterization of the waste will be derived from the results of the samples collected.

7.0 REPORTING

7.1 Remedial Investigation Report

Following completion of the fieldwork and receipt of the analytical results, an RI report will be prepared in accordance with the requirements specified in Chapter 173-340-350{4}. The RI Report will include a description of sampling activities, soil and groundwater analytical results, soil boring logs and monitoring well diagrams, and maps showing the extent of soil and groundwater COCs.

7.2 Feasibility Study Report

Using data collected during the supplemental RI and from previous studies, a FS will be performed to develop and evaluate cleanup action alternatives to enable a cleanup action to be selected for the site, consistent with WAC 173-340-350(8)(i).

The cleanup remedies evaluated shall protect human health and the environment, including terrestrial and aquatic receptors. Cleanup remedies shall eliminate, reduce, or otherwise control risks posed through each exposure pathway and migration route. Residual threats that accompany each alternative shall be evaluated to determine if remedies protective of human health are also protective of ecological receptors. The Feasibility Study shall include at least one permanent cleanup alternative to serve as a baseline against which other alternatives shall be evaluated. In accordance with text in Section 2 of the Directive Letter, the report will include the alternative of removing the inactive product pipeline located beneath the site.

8.0 PROJECT SCHEDULE

An estimated project schedule for the supplemental RI/FS is provided below.

Activity	Approximate Date
Submit Work Plan for Supplemental RI to Ecology	February 15, 2007
Receive Ecology Comments on Draft Work Plan	30 days after submittal of Draft Work Plan
Submit Final Work Plan	30 days after receipt of Ecology Comments
Acquire Access Agreements	To be determined – may require up to 90 days after receipt of Final Work Plan comments from Ecology, possibly longer
Begin Phase I Fieldwork Activities	No later than 60 days after Ecology approval of Work Plan, 60 days after receipt of signed access agreements between RPs and property owners, 60 days or completion of the public comment period for the Agreed Order (whichever is later)
Prepare Draft RI Report	Approximately 3 months after completion of last phase of field activities
Prepare Final RI Report	To be determined - approximately 30 days after receipt of Ecology comments on the draft RI report
Prepare Draft Feasibility Study	May be combined with the draft RI report, if not, approximately 60 days following Ecology acceptance of the Final RI report
Prepare Final Feasibility Study	May be combined with the final RI report, if not, approximately 60 days following Ecology acceptance of the Final RI

9.0 REFERENCES

Secor International Incorporated February 26, 2001. *Draft Remedial Investigation Report, Former Industrial Petroleum Distributors Bulk Terminal, 1117 West Bay Drive, Olympia, Washington 9 pp*

Associated Environmental Group, LLC. July 26, 2004 *Groundwater Monitoring Well Installation Work Plan.*

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Washington Department of Ecology (Ecology) September 2, 1998. *Chapter 173-160 WAC, Minimum Standards for Construction and Maintenance of Wells*

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Washington Department of Ecology (Ecology) Revised April 2003 *Chapter 173-204 WAC, Sediment Sampling and Analysis Plan Appendix*

10.0 REMARKS

The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

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