Appendix A

Completed Environmental Indicator Forms

DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION

Interim Final 2/5/99

RCRA Corrective Action
Environmental Indicator (EI) RCRIS code (CA725)

Current Human Exposures Under Control

Facility Name:	Alaska Railroad Corporation
Facility Address:	419 E. 1st Avenue, Anchorage, AK 99501
Facility EPA ID #:	AKD 98176 7403

1. Has **all** available relevant/significant information on known and reasonably suspected releases to soil, groundwater, surface water/sediments, and air, subject to RCRA Corrective Action (e.g., from Solid Waste Management Units (SWMU), Regulated Units (RU), and Areas of Concern (AOC)), been **considered** in this EI determination?

X If yes - check here and continue with #2 below. (**It's possible data could be incomplete**)

____ If no - re-evaluate existing data, or

____ if data are not available skip to #6 and enter "IN" (more information needed) status code.

BACKGROUND

Definition of Environmental Indicators (for the RCRA Corrective Action)

Environmental Indicators (EI) are measures being used by the RCRA Corrective Action program to go beyond programmatic activity measures (e.g., reports received and approved, etc.) to track changes in the quality of the environment. The two EI developed to-date indicate the quality of the environment in relation to current human exposures to contamination and the migration of contaminated groundwater. An EI for non-human (ecological) receptors is intended to be developed in the future.

Definition of "Current Human Exposures Under Control" EI

A positive "Current Human Exposures Under Control" EI determination ("YE" status code) indicates that there are no "unacceptable" human exposures to "contamination" (i.e., contaminants in concentrations in excess of appropriate risk-based levels) that can be reasonably expected under current land- and groundwater-use conditions (for all "contamination" subject to RCRA corrective action at or from the identified facility (i.e., site-wide)).

Relationship of EI to Final Remedies

While Final remedies remain the long-term objective of the RCRA Corrective Action program the EI are near-term objectives which are currently being used as Program measures for the Government Performance and Results Act of 1993, GPRA). The "Current Human Exposures Under Control" EI are for reasonably expected human exposures under current land- and groundwater-use conditions ONLY, and do not consider potential future land- or groundwater-use conditions or ecological receptors. The RCRA Corrective Action program's overall mission to protect human health and the environment requires that Final remedies address these issues (i.e., potential future human exposure scenarios, future land and groundwater uses, and ecological receptors).

Duration / Applicability of EI Determinations

EI Determinations status codes should remain in RCRIS national database ONLY as long as they remain true (i.e., RCRIS status codes must be changed when the regulatory authorities become aware of contrary information).

2. Are groundwater, soil, surface water, sediments, or air **media** known or reasonably suspected to be **"contaminated"**[1] above appropriately protective risk-based "levels" (applicable promulgated standards, as well as other appropriate standards, guidelines, guidance, or criteria) from releases subject to RCRA Corrective Action (from SWMUs, RUs or AOCs)?

	Yes	No	?	Rationale / Key Contaminants
Groundwater	X			1994 and 2002 RFAs show past releases of metals, diesel, pcbs, heavy end hydrocarbons, VOCs, BTEX
Air (indoors)[2]			X	
Surface Soil (e.g., <2 ft)	X			same as above
Surface Water	X			"
Sediment	X			"
Subsurf. Soil (e.g., >2 ft)	X			"
Air (outdoors)			X	

____ If no (for all media) - skip to #6, and enter "YE," status code after providing or citing appropriate "levels," and referencing sufficient supporting documentation demonstrating that these "levels" are not exceeded.

X If yes (for any media) - continue after identifying key contaminants in each "contaminated" medium, citing appropriate "levels" (or provide an explanation for the determination that the medium could pose an unacceptable risk), and referencing supporting documentation.

____ If unknown (for any media) - skip to #6 and enter "IN" status code.

Rationale and Reference(s):

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[1] "Contamination" and "contaminated" describes media containing contaminants (in any form, NAPL and/or dissolved, vapors, or solids, that are subject to RCRA) in concentrations in excess of appropriately protective risk-based "levels" (for the media, that identify risks within the acceptable risk range).

[2] Recent evidence (from the Colorado Dept. of Public Health and Environment, and others) suggest that unacceptable indoor air concentrations are more common in structures above groundwater with volatile contaminants than previously believed. This is a rapidly developing field and reviewers are encouraged to look to the latest guidance for the appropriate methods and scale of demonstration necessary to be reasonably certain that indoor air (in structures located above (and adjacent to) groundwater with volatile contaminants) does not present unacceptable risks.

3. Are there **complete pathways** between "contamination" and human receptors such that exposures can be reasonably expected under the current (land- and groundwater-use) conditions?

Summary Exposure Pathway Evaluation Table

Potential **Human Receptors** (Under Current Conditions)

"Contaminated" Media	Residents	Workers	Day-Care	Construction	Trespassers	Recreation	Food[3]
Groundwater	___	X	___	___			___
Air (indoors)	___	___	___				
Soil (surface, e.g., <2 ft)	___	_X__	___	__X_	X	_X__	___
Surface Water	___	___			___	_X__	___
Sediment	___	___			___	_X__	___
Soil (subsurface e.g., >2 ft)				_X__			___
Air (outdoors)	___	___	___	___	___		

Instructions for Summary Exposure Pathway Evaluation Table:

1. Strike-out specific Media including Human Receptors' spaces for Media which are not "contaminated" as identified in #2 above.

2. enter "yes" or "no" for potential "completeness" under each "Contaminated" Media -- Human Receptor combination (Pathway).

Note: In order to focus the evaluation to the most probable combinations some potential "Contaminated" Media - Human Receptor combinations (Pathways) do not have check spaces ("___"). While these combinations may not be probable in most situations they may be possible in some settings and should be added as necessary.

____ If no (pathways are not complete for any contaminated media-receptor combination) - skip to #6, and enter "YE" status code, after explaining and/or referencing condition(s) in-place, whether natural or man-made, preventing a complete exposure pathway from each contaminated medium (e.g., use optional Pathway Evaluation Work Sheet to analyze major pathways).

X___ If yes (pathways are complete for any "Contaminated" Media - Human Receptor combination) - continue after providing supporting explanation.

____ If unknown (for any "Contaminated" Media - Human Receptor combination) - skip to #6 and enter "IN" status code.

Rationale and Reference(s):
Data included in 1996 and 2002 RFAs show releases to soil and GW contamination. GW drains to surface water (ship creek) which is used for recreational fishing.

4. Can the **exposures** from any of the complete pathways identified in #3 be reasonably expected to be

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[3] Indirect Pathway/Receptor (e.g., vegetables, fruits, crops, meat and dairy products, fish, shellfish, etc.)

"significant"[4] (i.e., potentially "unacceptable" because exposures can be reasonably expected to be: 1) greater in magnitude (intensity, frequency and/or duration) than assumed in the derivation of the acceptable "levels" (used to identify the "contamination"); or 2) the combination of exposure magnitude (perhaps even though low) and contaminant concentrations (which may be substantially above the acceptable "levels") could result in greater than acceptable risks)?

____ If no (exposures can not be reasonably expected to be significant (i.e., potentially "unacceptable") for any complete exposure pathway) - skip to #6 and enter "YE" status code after explaining and/or referencing documentation justifying why the exposures (from each of the complete pathways) to "contamination" (identified in #3) are not expected to be "significant."

____ If yes (exposures could be reasonably expected to be "significant" (i.e., potentially "unacceptable") for any complete exposure pathway) - continue after providing a description (of each potentially "unacceptable" exposure pathway) and explaining and/or referencing documentation justifying why the exposures (from each of the remaining complete pathways) to "contamination" (identified in #3) are not expected to be "significant."

_X_ If unknown (for any complete pathway) - skip to #6 and enter "IN" status code

Rationale and Reference(s):

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[4] If there is any question on whether the identified exposures are "significant" (i.e., potentially "unacceptable") consult a human health Risk Assessment specialist with appropriate education, training and experience.

5. Can the "significant" **exposures** (identified in #4) be shown to be within **acceptable** limits?

_____ If yes (all "significant" exposures have been shown to be within acceptable limits) - continue and enter "YE" after summarizing and referencing documentation justifying why all "significant" exposures to "contamination" are within acceptable limits (e.g., a site-specific Human Health Risk Assessment).

_____ If no (there are current exposures that can be reasonably expected to be "unacceptable")- continue and enter "NO" status code after providing a description of each potentially "unacceptable" exposure.

_____ If unknown (for any potentially "unacceptable" exposure) - continue and enter "IN" status code

Rationale and Reference(s):

6. Check the appropriate RCRIS status codes for the Current Human Exposures Under Control EI event code (CA725), and obtain Supervisor (or appropriate Manager) signature and date on the EI determination below (and attach appropriate supporting documentation as well as a map of the facility):

____ YE - Yes, "Current Human Exposures Under Control" has been verified. Based on a review of the information contained in this EI Determination, "Current Human Exposures" are expected to be "Under Control" at the _____ _____facility, EPA ID # _____, located at _____ under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

____ NO - "Current Human Exposures" are NOT "Under Control."

_X_ IN - More information is needed to make a determination.

Completed by (signature) _____ Date 7/24/03
(print) Diane Richardson
(title) EPS

Supervisor (signature) _____ Date _____
(print) Jamie Sikorski
(title) - Manager, RCRA Compliance Unit
(EPA Region or State) Region 10

Locations where References may be found:

1996 RFA in Seattle files, 2002 RFA in Seattle files.

Contact telephone and e-mail numbers

(name) Diane Richardson
(phone #) (907)271-6329
(e-mail) richardson.diane@epa.gov

FINAL NOTE: THE HUMAN EXPOSURES EI IS A QUALITATIVE SCREENING OF EXPOSURES AND THE DETERMINATIONS WITHIN THIS DOCUMENT SHOULD NOT BE USED AS THE SOLE BASIS FOR RESTRICTING THE SCOPE OF MORE DETAILED (E.G., SITE-SPECIFIC) ASSESSMENTS OF RISK.

DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION

Interim Final 2/5/99

RCRA Corrective Action
Environmental Indicator (EI) RCRIS code (CA750)

Migration of Contaminated Groundwater Under Control

Facility Name:	Alaska Railroad Corporation
Facility Address:	419 E. 1st Avenue, Anchorage, AK 99501
Facility EPA ID #:	AKD 98176 7403

1. Has **all** available relevant/significant information on known and reasonably suspected releases to the groundwater media, subject to RCRA Corrective Action (e.g., from Solid Waste Management Units (SWMU), Regulated Units (RU), and Areas of Concern (AOC)), been **considered** in this EI determination?

X If yes - check here and continue with #2 below.**(data may not be current or complete)**

____ If no - re-evaluate existing data, or

____ if data are not available skip to #6 and enter"IN" (more information needed) status code.

BACKGROUND

Definition of Environmental Indicators (for the RCRA Corrective Action)

Environmental Indicators (EI) are measures being used by the RCRA Corrective Action program to go beyond programmatic activity measures (e.g., reports received and approved, etc.) to track changes in the quality of the environment. The two EI developed to-date indicate the quality of the environment in relation to current human exposures to contamination and the migration of contaminated groundwater. An EI for non-human (ecological) receptors is intended to be developed in the future.

Definition of "Migration of Contaminated Groundwater Under Control" EI

A positive "Migration of Contaminated Groundwater Under Control" EI determination ("YE" status code) indicates that the migration of "contaminated" groundwater has stabilized, and that monitoring will be conducted to confirm that contaminated groundwater remains within the original "area of contaminated groundwater" (for all groundwater "contamination" subject to RCRA corrective action at or from the identified facility (i.e., site-wide)).

Relationship of EI to Final Remedies

While Final remedies remain the long-term objective of the RCRA Corrective Action program the EI are near-term objectives which are currently being used as Program measures for the Government Performance and Results Act of 1993, GPRA). The "Migration of Contaminated Groundwater Under Control" EI pertains ONLY to the physical migration (i.e., further spread) of contaminated ground water and contaminants within groundwater (e.g., non-aqueous phase liquids or NAPLs). Achieving this EI does not substitute for achieving other stabilization or final remedy requirements and expectations associated with sources of contamination and the need to restore, wherever practicable, contaminated groundwater to be suitable for its designated current and future uses.

Duration / Applicability of EI Determinations

EI Determinations status codes should remain in RCRIS national database ONLY as long as they remain true (i.e., RCRIS status codes must be changed when the regulatory authorities become aware of contrary information).

2. Is **groundwater** known or reasonably suspected to be **"contaminated"**[1] above appropriately protective "levels" (i.e., applicable promulgated standards, as well as other appropriate standards, guidelines, guidance, or criteria) from releases subject to RCRA Corrective Action, anywhere at, or from, the facility?

_X_ If yes - continue after identifying key contaminants, citing appropriate "levels," and referencing supporting documentation.

____ If no - skip to #8 and enter "YE" status code, after citing appropriate "levels," and referencing supporting documentation to demonstrate that groundwater is not "contaminated."

____ If unknown - skip to #8 and enter "IN" status code.

Rationale and Reference(s):

1996 and 2002 RFAs show past releases as well as GW data from ADEC dated 1997

[1] "Contamination" and "contaminated" describes media containing contaminants (in any form, NAPL and/or dissolved, vapors, or solids, that are subject to RCRA) in concentrations in excess of appropriate "levels" (appropriate for the protection of the groundwater resource and its beneficial uses).

3. Has the **migration** of contaminated groundwater **stabilized** (such that contaminated groundwater is expected to remain within "existing area of contaminated groundwater"[2] as defined by the monitoring locations designated at the time of this determination)?

_____ If yes - continue, after presenting or referencing the physical evidence (e.g., groundwater sampling/measurement/migration barrier data) and rationale why contaminated groundwater is expected to remain within the (horizontal or vertical) dimensions of the "existing area of groundwater contamination"[2]).

_____ If no (contaminated groundwater is observed or expected to migrate beyond the designated locations defining the "existing area of groundwater contamination"[2]) - skip to #8 and enter "NO" status code, after providing an explanation.

_X_ If unknown - skip to #8 and enter "IN" status code.

Rationale and Reference(s):

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[2] "existing area of contaminated groundwater" is an area (with horizontal and vertical dimensions) that has been verifiably demonstrated to contain all relevant groundwater contamination for this determination, and is defined by designated (monitoring) locations proximate to the outer perimeter of "contamination" that can and will be sampled/tested in the future to physically verify that all "contaminated" groundwater remains within this area, and that the further migration of "contaminated" groundwater is not occurring. Reasonable allowances in the proximity of the monitoring locations are permissible to incorporate formal remedy decisions (i.e., including public participation) allowing a limited area for natural attenuation.

4. Does "contaminated" groundwater **discharge** into **surface water** bodies?

_____ If yes - continue after identifying potentially affected surface water bodies.

_____ If no - skip to #7 (and enter a "YE" status code in #8, if #7 = yes) after providing an explanation and/or referencing documentation supporting that groundwater "contamination" does not enter surface water bodies.

_____ If unknown - skip to #8 and enter "IN" status code.

Rationale and Reference(s):

5. Is the **discharge** of "contaminated" groundwater into surface water likely to be **"insignificant"** (i.e., the maximum concentration[3] of each contaminant discharging into surface water is less than 10 times their appropriate groundwater "level," and there are no other conditions (e.g., the nature, and number, of discharging contaminants, or environmental setting), which significantly increase the potential for unacceptable impacts to surface water, sediments, or eco-systems at these concentrations)?

____ If yes - skip to #7 (and enter "YE" status code in #8 if #7 = yes), after documenting: 1) the maximum known or reasonably suspected concentration[3] of key contaminants discharged above their groundwater "level," the value of the appropriate "level(s)," and if there is evidence that the concentrations are increasing; and 2) provide a statement of professional judgement/explanation (or reference documentation) supporting that the discharge of groundwater contaminants into the surface water is not anticipated to have unacceptable impacts to the receiving surface water, sediments, or eco-system.

____ If no - (the discharge of "contaminated" groundwater into surface water is potentially significant) - continue after documenting: 1) the maximum known or reasonably suspected concentration[3] of each contaminant discharged above its groundwater "level," the value of the appropriate "level(s)," and if there is evidence that the concentrations are increasing; and 2) for any contaminants discharging into surface water in concentrations[3] greater than 100 times their appropriate groundwater "levels," the estimated total amount (mass in kg/yr) of each of these contaminants that are being discharged (loaded) into the surface water body (at the time of the determination), and identify if there is evidence that the amount of discharging contaminants is increasing.

____ If unknown - enter "IN" status code in #8.

Rationale and Reference(s):

6. Can the **discharge** of "contaminated" groundwater into surface water be shown to be **"currently acceptable"** (i.e., not cause impacts to surface water, sediments or eco-systems that should not be allowed

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[3] As measured in groundwater prior to entry to the groundwater-surface water/sediment interaction (e.g., hyporheic) zone.

to continue until a final remedy decision can be made and implemented[4])?

_____ If yes - continue after either: 1) identifying the Final Remedy decision incorporating these conditions, or other site-specific criteria (developed for the protection of the site's surface water, sediments, and eco-systems), and referencing supporting documentation demonstrating that these criteria are not exceeded by the discharging groundwater; OR 2) providing or referencing an interim-assessment,[5] appropriate to the potential for impact, that shows the discharge of groundwater contaminants into the surface water is (in the opinion of a trained specialists, including ecologist) adequately protective of receiving surface water, sediments, and eco-systems, until such time when a full assessment and final remedy decision can be made. Factors which should be considered in the interim-assessment (where appropriate to help identify the impact associated with discharging groundwater) include: surface water body size, flow, use/classification/habitats and contaminant loading limits, other sources of surface water/sediment contamination, surface water and sediment sample results and comparisons to available and appropriate surface water and sediment "levels," as well as any other factors, such as effects on ecological receptors (e.g., via bio-assays/benthic surveys or site-specific ecological Risk Assessments), that the overseeing regulatory agency would deem appropriate for making the EI determination.

_____ If no - (the discharge of "contaminated" groundwater can not be shown to be "**currently acceptable**") - skip to #8 and enter "NO" status code, after documenting the currently unacceptable impacts to the surface water body, sediments, and/or eco-systems.

_____ If unknown - skip to 8 and enter "IN" status code.

Rationale and Reference(s):

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[4] Note, because areas of inflowing groundwater can be critical habitats (e.g., nurseries or thermal refugia) for many species, appropriate specialist (e.g., ecologist) should be included in management decisions that could eliminate these areas by significantly altering or reversing groundwater flow pathways near surface water bodies.

[5] The understanding of the impacts of contaminated groundwater discharges into surface water bodies is a rapidly developing field and reviewers are encouraged to look to the latest guidance for the appropriate methods and scale of demonstration to be reasonably certain that discharges are not causing currently unacceptable impacts to the surface waters, sediments or eco-systems.

7. Will groundwater **monitoring** / measurement data (and surface water/sediment/ecological data, as necessary) be collected in the future to verify that contaminated groundwater has remained within the horizontal (or vertical, as necessary) dimensions of the "existing area of contaminated groundwater?"

   _____ If yes - continue after providing or citing documentation for planned activities or future sampling/measurement events. Specifically identify the well/measurement locations which will be tested in the future to verify the expectation (identified in #3) that groundwater contamination will not be migrating horizontally (or vertically, as necessary) beyond the "existing area of groundwater contamination."

   _____ If no - enter "NO" status code in #8.

   _____ If unknown - enter "IN" status code in #8.

Rationale and Reference(s):

8. Check the appropriate RCRIS status codes for the Migration of Contaminated Groundwater Under Control EI (event code CA750), and obtain Supervisor (or appropriate Manager) signature and date on the EI

determination below (attach appropriate supporting documentation as well as a map of the facility).

_____ YE - Yes, "Migration of Contaminated Groundwater Under Control" has been verified. Based on a review of the information contained in this EI determination, it has been determined that the "Migration of Contaminated Groundwater" is "Under Control" at the _____ _____facility , EPA ID # _____ , located at_____. Specifically, this determination indicates that the migration of "contaminated" groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the "existing area of contaminated groundwater" This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

_____ NO - Unacceptable migration of contaminated groundwater is observed or expected.

_X_ IN - More information is needed to make a determination.

Completed by (signature) _____ Date 7/23/03
(print) Diane Richardson
(title) EPS

Supervisor (signature) _____ Date _____
(print) Jamie Sikorski
(title) Manager, RCRA Compliance Unit
(EPA Region or State) Region 10

Locations where References may be found:

1996 RFA in Seattle files, 2002 RFA in Seattle files, 1997 DEC GW data.

Contact telephone and e-mail numbers

(name) Diane Richardson
(phone #) (907)271-6329
(e-mail) richardson.diane@epa.gov

Appendix B

Document List and Electronic Database

Alaska Railroad Document List

RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
			Document Description					
LP-001 1632 / 1648 Post Road								Condensed Summary
	No documents							
LP-002 801 West 1st Avenue								Condensed Summary
	LP-002-001		Phase 1 Environmental Site Assessment	January 2004	Reports/Work Plans	Hart Crowser	Alaska Railroad Corp.	Hart Crowser
	LP-002-002		Phase 1 Contamination Investigation	October 10 1989	Reports/Work Plans	Blymer Engineers, Inc.	Consolidated Freightways	Hart Crowser
	LP-002-003		Diesel/Gasoline UST Contaminated Soils Thermal Remediation Project Report	December 22 1992	Reports/Work Plans	Environmental Systems (Blymer Engineers, Inc.)	Consolidated Freightways	Hart Crowser
	LP-002-004		Map Findings Consolidated Freightways		Technical Data			Hart Crowser
	LP-002-005		Notification for Underground Storage Tanks	May 20 1986	Permits/Applications/Forms		ADEC	Hart Crowser
	LP-002-006		Alaska UST Leaking UST Site Status & Correspondence Report for Consolidated Freightways	May 19 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-002-007		Ship Creek Waterfront Development	July 13 1990	Correspondence	Eastwind/VECO JV	ADEC	Hart Crowser
	LP-002-008		Update on Status of Remediation of Stockpiled, Contaminated Soil	February 25 1991	Correspondence	Blymer Engineers, Inc.	ADEC	Hart Crowser
	LP-002-009		Alaska UST Facility Summary Report for Facility 305 Consolidated Freightways	May 19 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-002-010		Oil & Hazardous Materials Incident Report & Supporting Documents	March 25 1989	Reports/Work Plans			Hart Crowser
	LP-002-011		Closure/No Further Action	February 24 1993	Correspondence	ADEC	Consolidated Freightways	U.S. EPA (ATRAR)
LP-002 SWMU1								
LP-002 SWMU2								
LP-002 SWMU3								
LP-003 1076 Ocean Dock Road								Condensed Summary
	LP-003-001		Groundwater Assessment Report	January 2003	Reports/Work Plans	Shannon & Wilson	William Alaska Petroleum	Hart Crowser
	LP-003-002		Soil Screening and Sampling Report Rail Track & Pipeline Construction Project (Volume I is dated February 2003 -- Volume II is dated Jan. 2003)	February 2003	Reports/Work Plans	Shannon & Wilson	William Alaska Petroleum	Hart Crowser
	LP-003-003		Groundwater Assessment Report	December 2003	Reports/Work Plans	Shannon & Wilson	William Alaska Petroleum	Hart Crowser
	LP-003-004		Map Findings EDR Site Report Ocean Dock Road	May 5 2004	Technical Data	Environmental Data		Hart Crowser
	LP-003-005		New Bulk Fuel Storage Tank Site Cleanup	November 1992	Reports/Work Plans	Shannon & Wilson	Mapco Alaska Petroleum	Hart Crowser
	LP-003-006		Site Assessment Chugach Electric Association Sub-Lease - 1200 Ocean Dock Road	March 13 1992	Reports/Work Plans	Shannon & Wilson	Mapco Alaska Petroleum	Hart Crowser
	LP-003-007		Site Investigation Work Plan Chugach Electric Association Marine Division - 1200 Ocean Dock Road	September 22 1995	Reports/Work Plans	Dept. of Environmental Engineering & Hazardous	Chugach Electric Assoc.	Hart Crowser
	LP-003-008	SC-021	Environmental Site Assessment and Clean-up Report, Volume I & II Chugach Electric Association - 1200 Ocean Dock Road	March 1996	Reports/Work Plans	Chugach Electric Association		Hart Crowser
	LP-003-009		Health and Safety Plan Marine Division Site Investigation	September 22 1995	Reports/Work Plans	Dept. of Environmental Engineering & Hazardous	Chugach Electric Assoc.	ARRC
	LP-003-011		General Correspondence		Correspondence			ARRC
	LP-003-012	SC-019	Hazard Study for the Bulk POL Facilities in the Port of Anchorage, Alaska	August 2002	Reports/Work Plans	Golder Associates	Municipality of Anchorage	Hart Crowser
	LP-003-013		Chugach Electric Association Site Assessment, 1200 Ocean Dock Road (Report that is attached to this letter is Duplicate of LP-003-008)	September 17 1996	Correspondence	ARRC	ADEC	Hart Crowser
	LP-003-014	SC-147	Port of Anchorage Drainage Study, Final Report	March 1997	Reports/Work Plans	CH2MHill	Municipality of Anchorage	Hart Crowser
	LP-003-015	SC-150	Port of Anchorage Drainage Study, Final Report - Technical Appendices	March 1997	Reports/Work Plans	CH2MHill	Municipality of Anchorage	Hart Crowser
	LP-003-016		Electronic Files -- Miscellaneous Documents					Hart Crowser
	LP-003-017		Phase II Site Assessment Chugach Electric Association Sub-Lease	May 1992	Reports/Work Plans	Shannon & Wilson	Mapco Alaska Petroleum	Hart Crowser

Alaska Railroad Document List

RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
			Document Description					
	LP-003-018		Final Report Anchorage Terminal Baseline Site Assessment	April 4 1994	Reports/Work Plans	IT Corporation	Mapco Alaska Petroleum	Hart Crowser
	LP-003-019		Site-Wide Groundwater Monitoring Report Port of Anchorage Petroleum Users Group - Volume 1 of 2	April 5 1994	Reports/Work Plans	ICF Kaiser Engineers, Inc.	Port of Anchorage Petroleum Users Group	Hart Crowser
	LP-003-020		Disposal of JP-4 Waste Soils from MAPI Anchorage Terminal Facility	August 6 1991	Reports/Work Plans	Shannon & Wilson	ADEC	Hart Crowser
	LP-003-021		Gasoline Spill Cleanup	July 1991	Reports/Work Plans	Shannon & Wilson	Mapco Alaska Petroleum	Hart Crowser
	LP-003-022		JP-4 Spill Cleanup	August 1991	Reports/Work Plans	Shannon & Wilson	Mapco Alaska Petroleum	Hart Crowser
	LP-003-023		Geotechnical and Environmental Report	December 1991	Reports/Work Plans	Shannon & Wilson	Alaska Anvil Inc.	Hart Crowser
	LP-003-024		Diesel Spill Data	June 8 1989	Reports/Work Plans	Mapco Alaska Petroleum	ADEC	Hart Crowser
	LP-003-025		Lab Data	October 1990	Lab Results	Enesco	Shannon & Wilson	Hart Crowser
	LP-003-026		Lab Data	October 1991	Lab Results	Chemical & Geological Lab	ADEC	Hart Crowser
	LP-003-027		Groundwater Assessment Flint Hills Resources Alaska Anchorage Terminal	June 2004	Reports/Work Plans	Shannon & Wilson	Flint Hills Resources	Hart Crowser
	LP-003-028		Miscellaneous Small Reports with Data		Reports/Work Plans	Shannon & Wilson		Hart Crowser
	LP-003-029		Comments on Draft EPA/AK Railroad AOC	June 18 2004	Correspondence	Flint Hills Resources	U.S. EPA	U.S. EPA (ATRAR)
LP-003 SWMU1								
LP-003 SWMU2								
LP-003 SWMU3								
LP-003 SWMU4								
LP-004 849 Ocean Dock Road								
	LP-004-002		Port Access Road Project - ADEC Coordination Meeting	December 18 1995	Correspondence	Shannon & Wilson	HDR Engineering	ARRC
	LP-004-003		Phase I Site Assessment Ocean Dock Road	October 1995	Reports/Work Plans	Shannon & Wilson	HDR Engineering	ARRC
LP-004 SWMU4-1								
LP-006 1648 N. Post Road								Condensed Summary
	No Documents							
LP-006 SWMU1								
LP-006 SWMU2								
LP-006 SWMU3								
LP-006 SWMU4								
LP-006 SWMU5								
LP-006 SWMU6								

Alaska Railroad Document List

RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
			Document Description					
LP-007 1300 Ocean Dock Road								Condensed Summary
	No Documents							
LP-008 733 East Whitney Road								
	No Documents							
LP-009 566 E. Bluff Avenue								
	LP-009-001		Subsurface Status Report	April 7 1987	Correspondence	RZA, Inc.	Unocal	Hart Crowser
	LP-009-002		Underground Storage Tank Site Assessment	June 1996	Reports/Work Plans	Terrasat, Inc.	William E. Dam	Hart Crowser
	LP-009-003		L35.02 Abandoned Texaco	June 27 1994	Correspondence	Eileen Olson	Robert Weimer, ADEC	Hart Crowser
	LP-009-004		Bill Dam, Late Fees	February 14 1995	Correspondence	Robert Krogseng	Robert Weimer, ADEC	Hart Crowser
	LP-009-005		Removal of 2 Out-of-Service USTs	August 25 1995	Correspondence	Terrasat, Inc.	Robert Weimer, ADEC	Hart Crowser
	LP-009-006		Stockpiles at the Former Government Hill Texaco	November 2 1995	Correspondence	Terrasat, Inc.	Robert Weimer, ADEC	Hart Crowser
	LP-009-007		Government Hill Texaco Stockpile Disposal	May 21 1996	Correspondence	Terrasat, Inc.	Robert Weimer, ADEC	Hart Crowser
	LP-009-008		Notification of Intent to Cost Recover	November 20 1997	Correspondence	Storage Tank Program	William E. Dam	Hart Crowser
	LP-009-009		Request for Release Investigation Work Plan and Corrective Action Work Plan	January 30 2003	Correspondence	ADEC	William E. Dam	Hart Crowser
	LP-009-010		Ground Lease Contract No. 2505 - Government Hill Site	July 2 2003	Correspondence	Alaska Railroad Corp.	William E. Dam	Hart Crowser
	LP-009-011		Approval of Aug. 19 2003 Release Investigation Work Plan and Corrective Action Work Plan for Former Government Hill Texaco	September 5 2003	Correspondence	ADEC	William E. Dam	Hart Crowser
	LP-009-012		Unocal Service Station Site and Exploration Plan	April 1987	Maps/Drawings/Photos	RZA, Inc.		Hart Crowser
	LP-009-013		William Dam Site (UST Grant)	May 12 2004	Correspondence	Susan Schrader	Tom Noyes	Hart Crowser
	LP-009-014		Map Findings Bluff Road		Technical Data			Hart Crowser
	LP-009-015		Leaking UST Site Status and Correspondence Report	May 25 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-009-016		Soil Sample Results, Bill Dam Project No. 1196	September 24 1996	Lab Report	EH&C	Clean Soils Alaska	Hart Crowser
	LP-009-017		Electronic Files -- Miscellaneous Documents					Hart Crowser
	LP-009-018		Subsurface Petroleum Hydrocarbon Contamination Evaluation	November 1986	Reports/Work Plans	RZA, Inc.	Unocal	Hart Crowser
	LP-009-019		UST Financial Assistance Program					
	LP-009-020		Approval of Stockpile Disposal Plan		Correspondence	Carey Cossaboom		Hart Crowser
	LP-009-021		Soil Sample Results, Bill Dam Project No. 1234	September 24 1996	Lab Report	EH&C	Clean Soils Alaska	Hart Crowser
	LP-009-022		Investigative Chemistry Government Hill Texaco Final Report	November 30 1995	Reports/Work Plans	AirAlytics, Inc.	Terrasat, Inc.	Hart Crowser
	LP-009-023		Lab Data	1995	Lab Report			Hart Crowser
	LP-009-024		Soil Sample Results	1996	Reports/Work Plans			
LP-009 SWMU1								
LP-009 SWMU2								Condensed Summary
LP-009 AOC1								
LP-010 1301 First Avenue								
	No Documents							

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Document Description								
RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
LP-011 2217 Post Road								
LP-011 SWMU11-1								
LP-011 SWMU11-2								
LP-012 349 Ship Creek Avenue								
	No Documents							
LP-013 501 Warehouse Avenue								
	No Documents							
LP-014 1425 Spar Avenue								Condensed Summary
	LP-014-001		UCSC Lab Data	November 30 2001	Correspondence	Karen Morrissey	Susan Schrader	Hart Crowser
	LP-014-002		Notice of Violation Alaska Motor Doctor	August 2 2001	Correspondence	U.S. EPA	Alaska Motor Doctor	Hart Crowser
	LP-014-004		RCRA Compliance Evaluation Inspection Urethane Contractors Supply & Consulting	October 30 2003	Correspondence	U.S. EPA	Urethane Contractors Supply & Consulting	Hart Crowser
	LP-014-006		Summary of SWMUs					Hart Crowser
	LP-014-007		ADEC Contaminated Sites Database Site Report for Alaska Auto Carriers -- 1600 Ship Avenue	May 19 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-014-008		ADEC Contaminated Sites Database Site Report for Alaska Garden & Pet Supply -- 114 N. Orca Street	May 19 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-014-009		ADEC Contaminated Sites Database Site Report for Weaver Brothers -- 1611 E. 1st Avenue	May 20 2004	Reports/Work Plans	ADEC		Hart Crowser
LP-014 SWMU14-1								
LP-014 SWMU14-2								
LP-014 SWMU14-3								
LP-014 AOC14-1								
LP-015 1833 Post Road								Condensed Summary
	No Documents							
LP-016 ROW								
	LP-016-003		Groundwater Monitoring & Sampling Report Annual Event of May 3, 2001	June 14 2001	Reports/Work Plans	Gettler-Ryan, Inc.	Chevron	Hart Crowser
	LP-016-017		Final Report of Soil Sampling Activities in the Vicinity of Tanks 1, 29 & 30	April 9 1991	Reports/Work Plans	America North	Chevron	Hart Crowser
	LP-016-045		Lab Data (North Creek Analytical)	September 6 2000	Lab Results	North Creek Analytical	Chevron	SECOR
LP-016 AOC16-1								

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RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
			Document Description					
LP-017 2116 Post Road								
	LP-017-001		ARRC Leaseholder Water Level Measurements	June 26 2003	Reports/Work Plans	Hart Crowser	Alaska Railroad Corp.	Hart Crowser
	LP-017-002		Water Results	July 22 2002	Lab Reports	CT&E Environmental Services		Hart Crowser
	LP-017-004		Alaska UST Facility Summary Report - Polar Equipment Co.	May 17 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-017-005		ADEC Contaminated Sites Database Site Report for Swalling Const. Yard -- 2131 Post Road	May 18 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-017-006		Map Findings Polar Equipment & Alaska Plumbing & Heating		Technical Data			Hart Crowser
	LP-017-007		Summary of Site & SWMUs		Reports/Work Plans			Hart Crowser
	LP-017-008		Electronic Files -- Miscellaneous Documents					Hart Crowser
LP-018 2132 Post Road								
	LP-018-001		Alaska UST Facility Summary Report - Alaska Plumbing & Heating	May 17 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-018-002		ADEC Contaminated Sites Database Site Report for Swalling Const. Yard -- 2131 Post Road	May 18 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-018-003		Map Findings Alaska Plumbing & Heating Wholesale		Technical Data			Hart Crowser
	LP-018-004		Map Findings Petroleum Distributing Co. -- 1321 Port Road		Technical Data			Hart Crowser
	LP-018-005		Summary of Site & SWMUs		Reports/Work Plans			Hart Crowser
	LP-018-006		Electronic Files -- Miscellaneous Documents					Hart Crowser
LP-018 SWMU1								
LP-018 SWMU2								
LP-019 1321 Anchorage Port Road								
	LP-019-001		2001 Water Quality Monitoring Report & 2002 Water Quality Monitoring Plan	January 23 2002	Reports/Work Plans	Oasis Environmental	Tesoro Alaska	Hart Crowser
	LP-019-002		2002 Annual Water Quality Monitoring Report	June 26 2003	Reports/Work Plans	Oasis Environmental	Tesoro Alaska	Hart Crowser
	LP-019-003		Review of Recent Submittals prepared by OASIS	June 8 1999	Correspondence	ADEC	Tesoro Alaska	ARRC
	LP-019-004		Water Quality Characterization Workplan	July 13 1999	Reports/Work Plans	Oasis Environmental		ARRC
	LP-019-005		Soil Excavation and Water Quality Characterization Report	February 23 2000	Reports/Work Plans	Oasis Environmental		ARRC
	LP-019-006		Followup Letter RE Soil Excavation and Water Quality Characterization Rpt	February 28 2000	Correspondence	Tesoro Alaska	ADEC	Hart Crowser
	LP-019-007		Transmittal of Final Soil Excavation and Water Quality Characterization Rpt	February 24 2000	Correspondence	Oasis Environmental	Tesoro Alaska	Hart Crowser
	LP-019-008		Followup to Soil Characterization Report - April 13, 2000 Jet A Release and	May 24 2000	Correspondence	Tesoro Alaska	ADEC	Hart Crowser
	LP-019-009		May 2000 Water Quality Monitoring Report Terminal No. 1	July 17 2000	Reports/Work Plans	Oasis Environmental	Tesoro Alaska	Hart Crowser
	LP-019-010		Responses to July 3, 2000 Conditional Approval Letter	July 19 2000	Correspondence	Tesoro Alaska	ADEC	Hart Crowser
	LP-019-011		2000 Water Quality Monitoring Report & 2001 Water Quality Monitoring Plan	January 30 2001	Reports/Work Plans	Oasis Environmental	Tesoro Alaska	ARRC
	LP-019-012		Review of Report titled Data Transmittal - May 2000 Water Quality Monitoring	August 18 2000	Reports/Work Plans	ADEC	Tesoro Alaska	Hart Crowser
	LP-019-013		Pipeline Manifold Area Liner Installation Project	September 5 2000	Reports/Work Plans	Oasis Environmental	Tesoro Alaska	ARRC
	LP-019-014		2002 Investigation Report	May 28 2003	Reports/Work Plans	Kent & Sullivan	Tesoro Alaska	Hart Crowser
	LP-019-015		Response to August 18, 2000 Letter titled Review of Report Titled Data Transmittal	August 24 2000	Correspondence	Tesoro Alaska	ADEC	Hart Crowser
	LP-019-016		2003 Annual Water Quality Monitoring Report	February 4 2004	Reports/Work Plans	Oasis Environmental	Tesoro Alaska	ARRC
	LP-019-017		Hazard Study for the Bulk POL Facilities in the Port of Anchorage, Alaska (Document is located in LP-003-012)	August 2002	Reports/Work Plans	Golder Associates	Municipality of Anchorage	Hart Crowser
	LP-019-020		Electronic Files -- Miscellaneous Documents -- ADEC CSD e-files					Hart Crowser
	LP-019-021		Spill History	August 1987	Reports/Work Plans	Shannon & Wilson		Hart Crowser
	LP-019-022		Table - Summary of Surface Water Sample Analytical Data	February 18 2000	Reports/Work Plans			Hart Crowser
	LP-019-023		Table - Summary of Groundwater Analytical Data - BTEX/GRO/DRO	February 24 2000	Reports/Work Plans			Hart Crowser
	LP-019-024		Oil & Hazardous Materials Incident Report Form	May 18 1989	Permits/Applications/Forms	ADEC		Hart Crowser
	LP-019-025		Oil & Hazardous Substances Spill Notification	April 13 2000	Permits/Applications/Forms	ADEC		Hart Crowser
	LP-019-026		Anchorage Fire Dept. Spill Notification Reporting Form	April 13 2000	Permits/Applications/Forms	ADEC		Hart Crowser
	LP-019-027		Referral of Informal Cost Recovery Tesoro Pipeline Terminal Spill	March 22 2001	Reports/Work Plans	ADEC	ADEC	Hart Crowser

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RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
	LP-019-028		ADEC Plan #9621-CP-3089	February 1999	Reports/Work Plans	ADEC		Hart Crowser
	LP-019-029		ADEC Plan #9724-CP-6188	June 12 1998	Reports/Work Plans	ADEC		Hart Crowser
	LP-019-030		Sewerage System Prohibited Substance Report	June 1 1989	Reports/Work Plans	Anchorage Water & Wastewater Utility		Hart Crowser
	LP-019-031		AST-AE Information		Publications			Hart Crowser
	LP-019-032		Hydrostatic Testing Results / Product Transfer Lines - Anchorage Terminal	June 1990	Permits/Applications/Forms			Hart Crowser
	LP-019-033		Remedial Action Plan for Organic Soils	August 1990	Reports/Work Plans	Tesoro Alaska	ADEC	Hart Crowser
	LP-019-034		Report on Phase I Investigation	August 1989	Reports/Work Plans	Environmental Strategies	ADEC	Hart Crowser
	LP-019-035		Lab Data	November 1991	Lab Results	Anchorage Sand & Gravel	ADEC	Hart Crowser
	LP-019-036		Additional Soil Characterization Results	May 24 1999	Lab Results	Tesoro Alaska	ADEC	Hart Crowser
	LP-019-037		Lab Data	May 1999	Lab Results	MultiChem		Hart Crowser
	LP-019-038		Alternate Soil Cleanup Levels	May 27 1999	Reports/Work Plans	Tesoro Alaska	ADEC	Hart Crowser
	LP-019-039		Final Laboratory Analytical Results	June 14 1999	Lab Results	Oasis Environmental	Tesoro Alaska	Hart Crowser
	LP-019-040		Lab Reports for TOC Samples	May 27 1999	Lab Results	Oasis Environmental	Tesoro Alaska	Hart Crowser
	LP-019-041		Laboratory Results for Third Party Sampling	June 26 2000	Lab Results	Oil Spill Consultants	Alaska Soil Recycling	Hart Crowser
	LP-019-042		Pipeline Manifold Area Liner Installation Project & Soil Remediation Analytical Results	September 11 2000	Lab Results	Tesoro Alaska	ADEC	Hart Crowser
	LP-019-043		Additional Groundwater Characterization Work Plan	October 6 2000	Reports/Work Plans	Tesoro Alaska	ADEC	Hart Crowser
	LP-019-044		Environmental Site Assessment Work Plan	July 18 2002	Reports/Work Plans	Shannon & Wilson	ADEC	Hart Crowser
	LP-019-045		Table -- Summary of Soil Sample Analytical Results	October 1992	Lab Results			Hart Crowser
	LP-019-046		ADEC Contaminated Sites Database Comprehensive Site Specific Report	April 24 2001	Reports/Work Plans	ADEC		Hart Crowser
	LP-019-047		Work Plan to Investigate the Occurrence and Extent of Contaminants in Soil and Groundwater	July 7 1989	Reports/Work Plans	Environmental Strategies		Hart Crowser
	LP-019-048		Report on Phase I Field Investigation	August 21 1989	Reports/Work Plans	Environmental Strategies		Hart Crowser
	LP-019-049		Treatability Study Results	August 15 1990	Reports/Work Plans	Sound Environmental Services		Hart Crowser
	LP-019-050		Anchorage Terminal Organic Soil Bioremediation	January 8 1992	Reports/Work Plans	Hart Crowser	Tesoro Alaska	Hart Crowser
	LP-019-051		Pipeline Leak Excavation	August 1992	Reports/Work Plans	Hart Crowser	Tesoro Alaska	Hart Crowser
	LP-019-052		Jet-A Release Cleanup	May 1993	Reports/Work Plans	Hart Crowser	Tesoro Alaska	Hart Crowser
	LP-019-053		Results of Soil Sampling at AST No. 8	August 9 1994	Reports/Work Plans	Hart Crowser	Tesoro Alaska	Hart Crowser
	LP-019-054		Corrective Action Report August 14 1997 Gasoline Release	January 25 1998	Reports/Work Plans	Kent & Sullivan	Tesoro Alaska	Hart Crowser
	LP-019-055		Phase 2 Spill Response Workplan	September 29 1998	Reports/Work Plans	Kent & Sullivan	Tesoro Alaska	Hart Crowser
	LP-019-056		1998 Site Investigation Workplan	July 20 1998	Reports/Work Plans	Kent & Sullivan	Tesoro Alaska	Hart Crowser
	LP-019-057		Comprehensive Site Assessment Report	December 10 1998	Reports/Work Plans	Oasis Environmental	Tesoro Alaska	Hart Crowser
	LP-019-058		Final Water Quality Characterization Workplan	September 22 1999	Reports/Work Plans	Oasis Environmental	Tesoro Alaska	Hart Crowser
	LP-019-059		2000 Water Quality Monitoring Plan	April 7 2000	Reports/Work Plans	Oasis Environmental	Tesoro Alaska	Hart Crowser
	LP-019-060		Soil Characterization Report - April 13 2000 Jet Fuel Release	May 23 2000	Reports/Work Plans	Oasis Environmental	Tesoro Alaska	Hart Crowser
	LP-019-061		Workplan - Soil Removal & Management Procedures Pipeline Manifold Area Liner Installation Project	July 17 2000	Reports/Work Plans	Oasis Environmental	Tesoro Alaska	Hart Crowser
	LP-019-062		Soil Characterization Work Plan - April 13 2000 Jet Fuel Release	April 18 2000	Reports/Work Plans	Oasis Environmental	Tesoro Alaska	Hart Crowser
	LP-019-063		Soil Management & Assessment Procedures to Support Liner Installation Project	May 11 1999	Reports/Work Plans	Oasis Environmental	Tesoro Alaska	Hart Crowser
	LP-019-064		Photos --- PES-31 Bioremediation / Revegetation Project	1991	Maps/Drawings/Photos			Hart Crowser
	LP-019-065		Site Maps, Figures & Photos		Maps/Drawings/Photos			Hart Crowser
	LP-019-066		Miscellaneous Correspondence (1989 - 2003)		Correspondence			Hart Crowser
LP-019 SWMU19-1								
LP-019 AOC19-1								
LP-019 AOC19-2								

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RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
			Document Description					
LP-020 2548 Post Road								Condensed Summary
	LP-020-001		ARRC Leaseholder Water Level Measurements	June 26 2003	Reports/Work Plans	Hart Crowser	ARRC	Hart Crowser
	LP-020-002		Lab Data	August 2003	Lab Results	Analytica Environmental	ARRC	ARRC
LP-021 620 E. Whitney								
	No Documents							
LP-022 821 West 1st Avenue								Condensed Summary
	LP-022-001		Off-Site Characterization Study at The Municipal Light & Power First Avenue Power Plant No. 1 Site	October 1996	Reports/Work Plans	META Environmental	Electric Power Research Institute and Municipal Light & Power	Hart Crowser
	LP-022-002		July 1999 Groundwater Sampling at ML&P Power Plant No. 1	August 2 1999	Reports/Work Plans	Shannon & Wilson	Municipal Light & Power	Hart Crowser
	LP-022-003		August 1999 Groundwater Sampling at ML&P Power Plant No. 1	September 16 1999	Reports/Work Plans	Shannon & Wilson	Municipal Light & Power	Hart Crowser
	LP-022-004		November 1999 Groundwater Sampling at ML&P Power Plant No. 1	December 10 1999	Reports/Work Plans	Shannon & Wilson	Municipal Light & Power	Hart Crowser
	LP-022-005		ADEC Contaminated Sites Database Site Report for Municipal Light & Power, Plant 1	May 18 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-022-006		ADEC Contaminated Sites Database Site Report for Municipal Light & Power Building	May 18 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-022-007		ADEC Contaminated Sites Database Site Report for Municipal Light & Power Former Storage	May 18 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-022-008		Non-Objection Request for Installation and Sampling of Monitoring Wells ARRC Contract No. 7714	June 3 2004	Correspondence	Municipal Light & Power	ARRC	Hart Crowser
	LP-022-009		Map Findings Municipal Light & Power		Technical Data			Hart Crowser
	LP-022-010		Site Map		Maps/Drawings/Photos	ARRC		Hart Crowser
	LP-022-011		Request for Reduced Groundwater Monitoring & No Further Remedial Action, ML&P Site	July 14 1997	Reports/Work Plans	Golder Associates	ADEC	Hart Crowser
	LP-022-012		Approval of Reduction in Groundwater Monitoring, Removal of Groundwater Treatment System, & Request for Confirmation Sampling Work Plan	June 24 1998	Reports/Work Plans	ADEC	Municipal Light & Power	Hart Crowser
	LP-022-013		February 1999 Groundwater Sampling at ML&P Power Site 2	February 24 1999	Reports/Work Plans	Shannon & Wilson	Municipal Light & Power	Hart Crowser
	LP-022-014		No Further Action at the Former Gasoline & Diesel Underground Storage Tank Excavation Location, ML&P & Power Site	August 14 2002	Reports/Work Plans	ADEC	Yelena Saville	Hart Crowser
	LP-022-015		Electronic Files - Miscellaneous Reports and Correspondence from 1989					Hart Crowser
	LP-022-016		Miscellaneous Maps / Figures / Aerial Photo		Maps/Drawings/Photos			Hart Crowser
	LP-022-017		Characterization and Remediation Alternatives Study at a Diesel Spill Site	January 5 1995	Presentation			Hart Crowser
	LP-022-018		General Waterway / Waterbody Application and Handwritten Notes	March 1992	Correspondence	Burlington Environmental		Hart Crowser
	LP-022-019		Miscellaneous Correspondence (1999 - 2004)		Correspondence			Hart Crowser
	LP-022-020		ADEC Handwritten Notes / Communications	1992	Correspondence	ADEC	ADEC	Hart Crowser
	LP-022-021		Quality Assurance Project Plan	May 1992	Reports/Work Plans	Burlington Environmental	ADEC	Hart Crowser
	LP-022-022		Planned Burn of Petroleum / PCB Contaminated Soils	July 10 1992	Correspondence	ADEC	Alaska Pollution Control	Hart Crowser
	LP-022-023		Planned Burn of Petroleum / PCB Contaminated Soils	July 13 1992	Correspondence	ADEC	Alaska Pollution Control	Hart Crowser
	LP-022-024		Notice of Release Letter	July 20 1992	Correspondence	ADEC	Municipal Light & Power	Hart Crowser
	LP-022-025		Intent to Seek Approval for Removal of PCBs from Soil	July 1992	Correspondence	U.S. EPA	Alaska Pollution Control	Hart Crowser
	LP-022-026		Proposal to Treat PCB Soil	September 14 1992	Correspondence	Alaska Pollution Control	U.S. EPA	Hart Crowser
	LP-022-027		Agenda Document Control Sheet	August 31 1993	Permits/Applications/Forms	Municipality of Anchorage		Hart Crowser
	LP-022-028		Oil & Hazardous Materials Incident Report Form	May 3 1994	Permits/Applications/Forms	ADEC	ADEC	Hart Crowser
	LP-022-029		Summary of Investigative Efforts Discovery of Free Product	May 6 1994	Reports/Work Plans	Municipal Light & Power	ADEC	Hart Crowser
	LP-022-030		Sampling and Analysis Plan Preparation	February 14 1994	Correspondence	META Environmental	Municipal Light & Power	Hart Crowser
	LP-022-031		Field Work Update	May 31 1994	Correspondence	META Environmental	Municipal Light & Power	Hart Crowser
	LP-022-032		Summary of Analytical Data for Soil & Free Product Samples	June 2 1994	Reports/Work Plans	META Environmental	Municipal Light & Power	Hart Crowser
	LP-022-033		Boring Locations and Elevations	June 6 1994	Correspondence	Municipal Light & Power	META Environmental	Hart Crowser
	LP-022-034		Work Plan for PCB Field Screening and Testing at ML&P No. 1	June 9 1994	Reports/Work Plans	Shannon & Wilson	Coffman Engineers	Hart Crowser
	LP-022-035		Preliminary Results of Analysis of Soil and Groundwater Samples	July 8 1994	Reports/Work Plans	META Environmental	Municipal Light & Power	Hart Crowser

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RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
	LP-022-036		July 1994 Discharge Monitoring Status Report	August 15 1994	Lab Results	Municipal Light & Power	ADEC	Hart Crowser
	LP-022-037		Proposed Statement of Work Summary Pilot Study Plan at Power Plant No. 1	September 2 1994	Correspondence	META Environmental	Municipal Light & Power	Hart Crowser
	LP-022-038		Rough Draft Bioremediation of Hydrocarbon-Contaminated Sandy Soils	September 12 1994	Reports/Work Plans	U.S. EPA	ADEC	Hart Crowser
	LP-022-039		ML&P Plant No. 1 Fuel Piping and Tank Modifications Project	September 14 1994	Reports/Work Plans	Coffman Engineers	ADEC	Hart Crowser
	LP-022-040		Sampling and Analysis Plan for Pilot Study at Power Plant No. 1	September 21 1994	Reports/Work Plans	META Environmental	Municipal Light & Power	Hart Crowser
	LP-022-041		Proposal -- Bioremediation of Petrochemical-Contaminated, Nutrient-Poor Sandy Soils	October 1994	Reports/Work Plans	Municipal Light & Power	ADEC	Hart Crowser
	LP-022-042		Progress Report Power Plant No. 1 and Power Plant No. 2	November 7 1994	Reports/Work Plans	META Environmental	Municipal Light & Power	Hart Crowser
	LP-022-043		Information Regarding Contaminant Levels in Soil Cuttings	December 19 1994	Correspondence	Municipal Light & Power	ADEC	Hart Crowser
	LP-022-044		Characterization and Remediation Alternatives Study at a Diesel Spill Site	January 30 1995	Correspondence	META Environmental	Municipal Light & Power	Hart Crowser
	LP-022-045		Proposed Pilot Study Work	February 6 1995	Correspondence	META Environmental	Municipal Light & Power	Hart Crowser
	LP-022-046		Air Sparging Field Pilot Program Power Plant No. 1	April 19 1995	Reports/Work Plans	META Environmental	Municipal Light & Power	Hart Crowser
	LP-022-047		Request for Additional Site Assessment	January 9 1996	Correspondence	ADEC	Municipal Light & Power	Hart Crowser
	LP-022-048		Article Describing the Role Played by Soil Microorganisms in Bioremediation	September 19 1995	Reports/Work Plans			Hart Crowser
	LP-022-049		Statement of Work Summary Off-Site Characterization at the ML&P Diesel Spill Site	1995	Reports/Work Plans	Electric Power Research Institute		Hart Crowser
	LP-022-050		Handwritten Notes	May 30 1996	Correspondence			Hart Crowser
	LP-022-051		Request for Approval to Place Petroleum-Contaminated Soils	March 10 1998	Correspondence	Municipal Light & Power	ADEC	Hart Crowser
	LP-022-052		Oil & Hazardous Substances Spill Notification	April 16 1999	Permits/Applications/Forms	ADEC	ADEC	Hart Crowser
	LP-022-053		Handwritten Notes & Lab Data	April 16 1999	Correspondence			Hart Crowser
	LP-022-054		Spill Report for April 8, 1999 Spill at ML&P Power Plant 1	May 21 1999	Reports/Work Plans	Municipal Light & Power	ADEC	Hart Crowser
	LP-022-055		Work Plan for Groundwater Sampling at ML&P Power Plant No. 1	August 2 1999	Reports/Work Plans	Shannon & Wilson	ADEC	Hart Crowser
	LP-022-056		Approval of Work Plan for Groundwater Sampling	August 9 1999	Correspondence	ADEC	Municipal Light & Power	Hart Crowser
	LP-022-057		Bridge Pile Installation	August 20 1999	Correspondence	ADEC	USKH	Hart Crowser
	LP-022-058		November 1999 Groundwater Sampling at ML&P Power Plant No. 1	December 10 1999	Reports/Work Plans	Shannon & Wilson	Municipal Light & Power	Hart Crowser
	LP-022-059		Payment of Invoice	October 5 2001	Correspondence	State of Alaska	ADEC	Hart Crowser
	LP-022-060		Approval of November 1999 Groundwater Monitoring Event	February 2 2004	Correspondence	ADEC	Municipal Light & Power	Hart Crowser
	LP-022-061		Work Plan for Free Product Recovery in Monitoring Well B-3, Plant 1	March 3 2004	Reports/Work Plans	Municipal Light & Power	ADEC	Hart Crowser
	LP-022-062		Work Plan for Free Product Recovery in Monitoring Well B-3	March 10 2004	Correspondence	ADEC	Municipal Light & Power	Hart Crowser
	LP-022-063		Product Recovery Assessment, Power Plant #1	March 11 2004	Reports/Work Plans	Shannon & Wilson	Municipal Light & Power	Hart Crowser
	LP-022-064		Storage and Disposal of Oily Socks Used for Free Product Recovery in Monitoring Well B-3, Plant 1	March 18 2004	Correspondence	Municipal Light & Power	ADEC	Hart Crowser
	LP-022-065		Application for Brownfields Funding	March 22 2004	Correspondence	Municipal Light & Power	ADEC	Hart Crowser
	LP-022-066		Approval of Product Recovery Assessment Report	April 7 2004	Correspondence	ADEC	Municipal Light & Power	Hart Crowser
	LP-022-067		2004 Free Product Recovery Report, Monitoring Well B-3	2004	Permits/Applications/Forms			Hart Crowser
	LP-022-068		Payment of Invoice	April 9 2004	Correspondence	State of Alaska	ADEC	Hart Crowser
	LP-022-069		Work Plan for Additional Site Characterization and Groundwater Sampling	May 26 2004	Reports/Work Plans	Shannon & Wilson	ADEC	Hart Crowser
	LP-022-070		Work Plan for Additional Site Characterization and Groundwater Sampling	June 4 2004	Reports/Work Plans	Shannon & Wilson	ADEC	Hart Crowser
	LP-022-071		Work Plan Approval for Additional Site Characterization and Groundwater Sampling	June 7 2004	Correspondence	ADEC	Municipal Light & Power	Hart Crowser
	LP-022-072		ML&P Plant No. 1 Soil and Groundwater Investigation	January 1992	Reports/Work Plans	RZA-AGRA	Municipal Light & Power	Hart Crowser
	LP-022-073		Evaluation of Site Characterization Data Plant 1 1964 Oil Spill	February 13 1992	Reports/Work Plans	Stone & Webster Engineering	Municipal Light & Power	Hart Crowser
	LP-022-074		Draft Sampling and Analysis Plan for Anchorage ML&P	March 1994	Reports/Work Plans	META Environmental	Municipal Light & Power and Electric Power Research Institute	Hart Crowser
	LP-022-075		PCB Field Screening and Testing ML&P Power Plant No. 1	July 1994	Reports/Work Plans	Shannon & Wilson	Coffman Engineers	Hart Crowser
	LP-022-076		ML&P Plant #1 Fuel Piping and Tank Modifications Project Manual	1994	Reports/Work Plans	Coffman Engineers	Municipal Light & Power	Hart Crowser
	LP-022-077		Summary of Off-Site Characterization Work at Power Plant 1		Presentation			Hart Crowser
	LP-022-078		Results of Biotreatability Study		Presentation			Hart Crowser
	LP-022-079		Objectives of the Project		Presentation			Hart Crowser
	LP-022-080		Monitoring Well Sampling Requested Municipal Light & Power Plant No. 1	April 23 1999	Correspondence	Eileen Olson	Municipal Light & Power	U.S. EPA (ATRAR)
LP-022 SWMU22-1								
LP-022 AOC 22-1								

Alaska Railroad Document List

RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
			Document Description					
LP-022 AOC 22-2								
LP-023 320 West 1st Avenue								
	No Documents							
LP-024 1924 Post Road								Condensed Summary
	LP-024-001		Phase I and II Environmental Site Assessment	September 1998	Reports/Work Plans	Shannon & Wilson		Hart Crowser
	LP-024-002		Phase I Site Characterization Report Prescott Equipment Co.	June - July 1999	Reports/Work Plans	AlaskChem Engineering	Alaska Pollution Control	Hart Crowser
	LP-024-003		Phase II Site Characterization Report Prescott Equipment Co.	August 1999	Reports/Work Plans	AlaskChem Engineering	Alaska Pollution Control	Hart Crowser
	LP-024-004		Phase III & IV Soil Excavation and Confirmation Sampling Report Prescott Equipment Co.	October 1999	Reports/Work Plans	AlaskChem Engineering	Alaska Pollution Control	Hart Crowser
	LP-024-005		Phase V Final Report Prescott Equipment Co.	February 2000	Reports/Work Plans	AlaskChem Engineering	Alaska Pollution Control	Hart Crowser
	LP-024-006		Draft No Further Remedial Action Planned / Institutional Control Status	July 27 2000	Correspondence	ADEC	Prescott Equipment Co.	Hart Crowser
	LP-024-007		Prescott Lease, 1924 Post Road: Mercury Issues	January 2 2001	Correspondence	AlaskChem Engineering	ARRC	Hart Crowser
	LP-024-008		No Further Remedial Action Planned / Institutional Control Status	June 9 2003	Correspondence	ADEC	Prescott Equipment Co.	Hart Crowser
	LP-024-009		Electronic Files -- Miscellaneous Documents -- Contains Report & LP-082					Hart Crowser
	LP-024-010		Aerial Photos					Hart Crowser
	LP-024-011		Phase I Workplan Site Characterization	April 26 1999	Reports/Work Plans	AlaskChem Engineering		Hart Crowser
	LP-024-012		Sampling Workplan for Mercury	October 24 2001	Reports/Work Plans	AlaskChem Engineering		Hart Crowser
	LP-024-013		Groundwater Results	October 9 2000	Lab Reports	AlaskChem Engineering	ADEC	Hart Crowser
	LP-024-014		Revised Groundwater Results	October 20 2000	Lab Reports	AlaskChem Engineering	ADEC	Hart Crowser
	LP-024-015		Contaminated Sites Database New Site Form					Hart Crowser
	LP-024-016		Review of Phase I Workplan Site Characterization	March 1 1999	Correspondence	ADEC	Alaska Pollution Control	Hart Crowser
	LP-024-017		Analytical Results PEC Post Road	June 30 1999	Lab Reports	CT&E		Hart Crowser
	LP-024-018		Phase II Workplan Site Characterization	August 9 1999	Reports/Work Plans	AlaskChem Engineering		Hart Crowser
	LP-024-019		Information on Soil Stockpiles	September 30 1999	Reports/Work Plans	AlaskChem Engineering	Alaska Soil Recycling	Hart Crowser
	LP-024-020		Sampling Plan TCLP Lead In Soil Stockpiles	November 23 1999	Reports/Work Plans	AlaskChem Engineering		Hart Crowser
	LP-024-021		Stockpile Resampling & RCRA Status	December 6 1999	Reports/Work Plans	AlaskChem Engineering	Alaska Pollution Control	Hart Crowser
	LP-024-022		Executive Summary	June 2000	Reports/Work Plans	AlaskChem Engineering	ADEC	Hart Crowser
	LP-024-023		Draft Division of Spill Prevention & Response Contaminated Sites Remediation Program	July 27 2000	Reports/Work Plans			Hart Crowser
	LP-024-024		Miscellaneous Correspondence					Hart Crowser
LP-025 459 W. Bluff Road								
	LP-025-001		Work Plan for Stockpiled Soil Reuse	August 9 1999	Reports/Work Plans	Hart Crowser	Chevron Products	Hart Crowser
	LP-025-002		Groundwater Monitoring & Sampling Report Annual - Event of May 3, 2001	June 14 2001	Reports/Work Plans	Gettler-Ryan	Chevron Products	Hart Crowser
	LP-025-003		Groundwater Monitoring & Sampling Report Annual - Event of Sept. 30, 2002	November 11 2002	Reports/Work Plans	Gettler-Ryan	Chevron Products	Hart Crowser
	LP-025-004		Conam Construction Company Final Environmental Inspection Report for the Port of Anchorage: Anchorage Jet Fuel Pipeline	April 5 1999	Reports/Work Plans	Oasis Environmental		Hart Crowser
	LP-025-005		Work Plan to Respond to Fuel Released at the Port of Anchorage During Construction of the New Jet Fuel Pipeline	November 5 1998	Correspondence	Oasis Environmental	ADEC	Hart Crowser
	LP-025-006		Liquids Disposal Plan AV-Gas Fuel Piping Release	November 30 1998	Correspondence	Hart Crowser	ADEC	Hart Crowser
	LP-025-007		Joint Liability for Pollution Incident	November 4 1998	Correspondence	ADEC	ARRC, Conam & Chevron	Hart Crowser
	LP-025-008		Approval Letter for Review of Work Plan for Soil Stockpile Management	August 20 1998	Correspondence	ADEC	Chevron Products	Hart Crowser
	LP-025-009		Secondary Containment Areas; Contamination	May 7 1998	Correspondence	ADEC	Texaco Anchorage	Hart Crowser
	LP-025-010		State of Alaska Dept. of Environmental Conservation Oil & Hazardous Materials Incident Final Report	November 25 1998	Reports/Work Plans	Oasis Environmental	Conam Construction	Hart Crowser
	LP-025-011		RCRA Compliance Evaluation Inspection	October 31 2003	Correspondence	U.S. EPA	Harvey Daugherty	Hart Crowser
	LP-025-012		Port of Anchorage Maps & Database Information	October 12 2001	Correspondence	Karen Brown	Elizabeth Steriglou	Hart Crowser
	LP-025-013		ADEC Contaminated Sites Database Site Report for 459 West Bluff Road	April 14 2003	Reports/Work Plans	Alaska Dept. of Environmental Conservation		Hart Crowser

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Document Description								
RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
	LP-025-014		ADEC Contaminated Sites Database Site Report for Port of Anchorage	April 14 2003	Reports/Work Plans	Alaska Dept. of Environmental Conservation		Hart Crowser
	LP-025-015		Map Findings - 459 W. Bluff and Chevron Products		Technical Data			Hart Crowser
	LP-025-016		Map Findings - Chevron USA		Technical Data			Hart Crowser
	LP-025-017		ADEC Spill #98239930701 Conam Aviation Gas Spill Port of Anchorage	November 5 1998	Correspondence	ADEC	Conam Construction	ARRC
	LP-025-018		Construction Plan Chevron Pipeline #4 Damage Repair	Nov-98	Reports/Work Plans	Chevron Products		ARRC
	LP-025-019		Meeting Notes	November 4 1998	Correspondence			ARRC
	LP-025-020		Meeting Notes	November 6 1998	Correspondence			ARRC
	LP-025-021		MSDS: Aviation Gasoline	November 1998	Lab Reports			ARRC
	LP-025-022		ADEC Oil & Hazardous Substances Spill Notification	November 3 1998	Reports/Work Plans	ADEC		ARRC
	LP-025-023		ADEC Cleanup and Monitoring Site Log	November 1998	Reports/Work Plans	ADEC		ARRC
	LP-025-024		Environmental Conservation Regulations (18 AAC)		Regulations			ARRC
	LP-025-025		Conam/Chevron Line Puncture Ledger Information	November 3 1998	Reports/Work Plans			ARRC
	LP-025-026		Workplan for Soil Stockpile Management and Approval Letter from ADEC	September 17 1998	Correspondence	Chevron Products	ARRC	ARRC
	LP-025-027		Soil Disposal From Lake Hood Diesel Spill	June 5 1999	Lab Reports	Alaska Soil Recycling	Wilder Construction	ARRC
	LP-025-028		Photos and Drawings		Maps/Drawings/Photos	Chevron Products		ARRC
	LP-025-029		Hazard Study for the Bulk POL Facilities in the Port of Anchorage, Alaska (Document is located in LP-003-012)	August 2002	Reports/Work Plans	Golder Associates	Municipality of Anchorage	Hart Crowser
	LP-025-030		Port of Anchorage Drainage Study, Final Report (Document is located in LP-003-014)	March 1997	Reports/Work Plans	CH2MHill	Municipality of Anchorage	Hart Crowser
	LP-025-031		Port of Anchorage Drainage Study, Final Report - Technical Appendices (Document is located in LP-003-015)	March 1997	Reports/Work Plans	CH2MHill	Municipality of Anchorage	Hart Crowser
	LP-025-032		Electronic Files -- Miscellaneous Documents					Hart Crowser
	LP-025-033		Work Plan Stockpiled Soil Reuse Chevron Terminal	August 9 1999	Reports/Work Plans	Hart Crowser	Chevron	Hart Crowser
	LP-025-034		Map Findings Chevron Tank Farm & Chevron Anchorage Terminal		Technical Data			Hart Crowser
	LP-025-035		Documents pertaining to Hydrogeologic Conditions Beneath Anchorage Terminal (Includes Data Report on Observation Well Installation dated 10/12/83)	August 2 1988	Reports/Work Plans	Chevron	ADEC	Hart Crowser
	LP-025-036		Site Characterization Plan	August 9 1989	Reports/Work Plans	Chevron	ADEC	Hart Crowser
	LP-025-037		Work Plan for Field Operations Project Quality Assurance Plan Site Health & Safety Plan	September 6 1989	Reports/Work Plans	Hart Crowser	Chevron	Hart Crowser
	LP-025-038		Site Map	October 16 1989	Maps/Drawings/Photos			Hart Crowser
	LP-025-039		Letter from ADEC Enforcement Officer for Bulk Storage Facility	January 5 1990	Correspondence	State of Alaska	Chevron	Hart Crowser
	LP-025-040		Letter referring to enclosing Anchorage Terminal Site Assessment	May 22 1990	Correspondence	Chevron	ADEC	Hart Crowser
	LP-025-041		Contaminated Site Date & Actions	March 5 1991	Reports/Work Plans	ADEC		Hart Crowser
	LP-025-042		Soil Excavation Report	February 1997	Reports/Work Plans	Fluor Daniel GTI	Chevron	Hart Crowser
	LP-025-043		Environmental Assessment Work Plan	April 11, 1997	Reports/Work Plans	Fluor Daniel GTI	Chevron	Hart Crowser
	LP-025-044		Planned Soil Excavation, Sampling & Stockpile Preparation Activities	June 16 1997	Correspondence	Fluor Daniel GTI	ADEC	Hart Crowser
	LP-025-045		Facility Drainage System	July 9 1997	Correspondence	Anchorage Western District Offices	Great Northern Engineering	Hart Crowser
	LP-025-046		2nd Quarter 1997 Monitoring Report	July 9 1997	Reports/Work Plans	Blaine Tech Services	Chevron	Hart Crowser
	LP-025-047		Environmental Work Plan for Chevron Terminal Drainage System Upgrades	July 24 1997	Correspondence	Great Northern Engineering	ADEC	Hart Crowser
	LP-025-048		Approval with Conditions of Environmental Work Plan for Chevron Terminal Drainage System Upgrades	August 1 1997	Correspondence	ADEC	Great Northern Engineering	Hart Crowser

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RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
	LP-025-049		Landspreading Proposal	August 27 1997	Correspondence	Chevron	ADEC	Hart Crowser
	LP-025-050		Appendix C Executive Summary	August 27 1997	Reports/Work Plans			Hart Crowser
	LP-025-051		Landspreading Proposal & Use of Proposed Oil & Hazardous Substances Pollution Control Regulations	August 29 1997	Correspondence	ADEC	Chevron	Hart Crowser
	LP-025-052		Appendix A - Survey Questionnaire Results		Reports/Work Plans			Hart Crowser
	LP-025-053		Environmental Work Plan for Chevron Terminal Drainage System Upgrades Clarification of Dewatering Procedures	September 4 1997	Correspondence	Great Northern Engineering	ADEC	Hart Crowser
	LP-025-054		Approval with Conditions for Handling Contaminated Soils & Groundwater	September 9 1997	Correspondence	ADEC	Great Northern Engineering	Hart Crowser
	LP-025-055		File Review for Chevron Port of Anchorage Bulk Plant Facility	May 7 1998	Correspondence	ADEC	Chevron	Hart Crowser
	LP-025-056		2nd Quarter 1998 Monitoring Report	June 8 1998	Reports/Work Plans	Blaine Tech Services	Chevron	Hart Crowser
	LP-025-057		Work Plan for Stockpile Management	July 22 1998	Reports/Work Plans	SECOR	ADEC	Hart Crowser
	LP-025-058		Review of Work Plan for Stockpile Management	August 20 1998	Correspondence	ADEC	Chevron	Hart Crowser
	LP-025-059		Reuse of Hydrocarbon Impacted Soils	January 11 1999	Correspondence	Hart Crowser	ADEC	Hart Crowser
	LP-025-060		Groundwater Monitoring & Sampling Report Annual Event of May 3, 1999	June 25 1999	Reports/Work Plans	Gettler-Ryan, Inc.	Chevron	Hart Crowser
	LP-025-061		ADEC Contaminated Sites Database	2001	Reports/Work Plans	ADEC		Hart Crowser
	LP-025-062		Site / Area Maps	October 10 2001	Maps/Drawings/Photos	Shannon & Wilson	ADEC	Hart Crowser
	LP-025-063		Boring Locations & Lithology	December 5 2001				Hart Crowser
	LP-025-064		Lab Data (North Creek Analytical)	February 4 2002	Lab Results	SECOR		Hart Crowser
	LP-025-065		Berm Sampling Report	March 24 2004	Reports/Work Plans	SECOR	ADEC	Hart Crowser
	LP-025-066		Miscellaneous Correspondence (1988 - 2001)		Correspondence			Hart Crowser
	LP-025-067		Groundwater Monitoring & Sampling Report Annual 2000 - Event of May 23, 2000	July 31 2000	Reports/Work Plans	Gettler-Ryan, Inc.	Chevron	SECOR
	LP-025-068		Analytical Results	October 2003	Lab Results	Lancaster Labs	Chevron	SECOR
	LP-025-069		Lab Data and Revised Table 1	August 6 2003	Lab Results	Gettler-Ryan, Inc.	Chevron	SECOR
	LP-025-070		Groundwater Monitoring & Sampling Report Annual - Event of June 8 & 9 2004	July 20 2004	Lab Results	Gettler-Ryan, Inc.	Chevron	SECOR
	LP-025-071		Daily Field Logs	August 2000	Permits/Applications/Forms	SECOR	Chevron	SECOR
	LP-025-072		Site Map	May 3 1999	Maps/Drawings/Photos	SECOR	Chevron	SECOR
	LP-025-073		Spill History	July 18 2001	Reports/Work Plans	SECOR	Chevron	SECOR
	LP-025-074		Tree Removal Estimate for Port of Anchorage	August 21 2000	Correspondence	Pinnacle Construction	SECOR	SECOR
LP-025 SWMU25-1								
LP-025 SWMU25-2								
LP-025 SWMU25-3								
LP-025 SWMU25-4								
LP-025 SWMU25-5								
LP-025 SWMU25-6								
LP-025 SWMU25-7								
LP-026 1049 Whitney Road								Condensed Summary
	LP-026-001		Underground Storage Tank Removal at 1049 Whitney Road	December 14 1989	Correspondence	Shannon & Wilson	Miller's Equipment	Hart Crowser
	LP-026-002		Summary of Site & SWMUs		Reports/Work Plans			Hart Crowser
	LP-026-003		Map Findings Alaska Teamster Training Trust / Alaska Truck & Rail		Technical Data			Hart Crowser
LP-026 AOC-1								
LP-027 Chevron Asphalt Plant								
	LP-027-001		Notice of Violation / Request for Corrective Action Chevron Anchorage Terminal	December 27 1989	Reports/Work Plans	Anchorage Western District Offices	Chevron	Hart Crowser

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RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
			Document Description					
	LP-027-002		Oil & Hazardous Materials Incident Report Form	August 31 1989	Permits/Applications/Forms	ADEC	ADEC	Hart Crowser
	LP-027-003		Asphalt Emulsions: Description of Material	January 19 1990	Reports/Work Plans	Chevron		Hart Crowser
	LP-027-004		Comments Concerning Notice of Violation	January 22 1990	Correspondence	Chevron	ADEC	Hart Crowser
	LP-027-005		Contaminated Site Data Entry Form	April 17 1990	Permits/Applications/Forms			Hart Crowser
	LP-027-006		Interim Report & Plan for Diesel/Asphalt Spill	August 1 1997	Correspondence	ADEC	Chevron	Hart Crowser
LP-028 Elmendorf Access / Viking								
	No Documents							
LP-029 2014 Post Road								
	No Documents							
LP-030 2510 Post Road								
	No Documents							
LP-031 2320 Post Road								Condensed Summary
	LP-031-001		Limited Phase II Environmental Site Assessment	October 10 2001	Reports/Work Plans	Shannon & Wilson		Hart Crowser
	LP-031-003		Contract 5103 - Environmental Site Assessment by FPE / Roen Engineers	September 4 1991	Reports/Work Plans	Keystone Distribution	ARRC	Hart Crowser
	LP-031-004		Phase I Site Assessment	Sep-01	Reports/Work Plans	Shannon & Wilson		Hart Crowser
	LP-031-006		Report from Fryer/Pressley Engineering (FPE) -- Title Unknown (Cover Page Missing)	October 1990	Reports/Work Plans	Fryer/Pressley Engineering (FPE)		Hart Crowser
	LP-031-007		Site Investigation for PCB Impacted Soil	January 6 1999	Reports/Work Plans	Alta Geosciences	Keystone Distribution	Hart Crowser
	LP-031-008		Alaska UST Facility Summary Report - Keystone Distribution	May 6 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-031-009		Alaska UST Facility Summary Report - Northwest Painting Services -- 2319 Post Road	May 18 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-031-010		Map Findings Keystone Distribution / Diversey Keystone / Air Van Lines		Technical Data			Hart Crowser
	LP-031-011		Summary of Site & SWMUs		Reports/Work Plans			Hart Crowser
	LP-031-012		Figures and Tables (Partial Report)		Reports/Work Plans	Fryer/Pressley Engineering (FPE)		Hart Crowser
	LP-031-013		Electronic Files -- Miscellaneous Documents					Hart Crowser
	LP-031-014		Decommissioning Notice for Alaska Underground Storage Tanks	October 10 1990	Permits/Applications/Forms	ADEC	ARRC	U.S. EPA (ATRAR)
LP-032 1907 Post Road								
	LP-032-001		Notification of Underground Storage Tanks	January 15 1988	Reports/Work Plans			Hart Crowser
	LP-032-002		Notification of Intent to Cost Recover, Owner ID #1848	November 20 1997	Correspondence	Storage Tank Program	M. Davis	Hart Crowser
	LP-032-003		Alaska UST Leaking UST Site Status & Correspondence Report for Northern Consolidators	May 19 2004	Reports/Work Plans			Hart Crowser
LP-033 2216 Post Road								
	LP-033-001		UST Removal Monitoring North American Van Lines	May 31 1989	Reports/Work Plans	Shannon & Wilson	North American Van Lines	Hart Crowser
	LP-033-002		Disposal of Waste Soils From Air Van Lines - Group 1	November 7 1989	Reports/Work Plans	Shannon & Wilson	ADEC	Hart Crowser
	LP-033-003		Work Plan for Hydrocarbon Assessment at Air Van Lines	December 4 1989	Correspondence	Shannon & Wilson	Arrow Moving & Storage	Hart Crowser
	LP-033-004		Authorization of Contamination Assessment Activities	April 5 1990	Correspondence	Shannon & Wilson	The SUMIKO Group	Hart Crowser
	LP-033-005		Contamination Assessment Plan	April 5 1990	Correspondence	Shannon & Wilson	ADEC	Hart Crowser
	LP-033-006		Work Plan for Contamination Assessment	April 6 1990	Correspondence	Shannon & Wilson	The SUMIKO Group	Hart Crowser
	LP-033-007		Interim Guidance for Soil Cleanup Levels	September 26 1990	Reports/Work Plans	ADEC		Hart Crowser
	LP-033-008		Underground Storage Tanks Regulations	October 15 1990	Regulations	ADEC		Hart Crowser
	LP-033-009		Petroleum Hydrocarbon Assessment	April 1991	Reports/Work Plans	Shannon & Wilson	The SUMIKO Group	Hart Crowser
	LP-033-010		Cost Proposal for Biannual Sampling & Analysis of Monitoring Wells	October 23 1991	Correspondence	Shannon & Wilson	The SUMIKO Group	Hart Crowser
	LP-033-011		October 1991 Groundwater Monitoring	November 14 1991	Reports/Work Plans	Shannon & Wilson	The SUMIKO Group	Hart Crowser

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RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
			Document Description					
	LP-033-012		April 1992 Groundwater Monitoring	May 2 1992	Reports/Work Plans	Shannon & Wilson	The SUMIKO Group	Hart Crowser
	LP-033-013		Cost Proposal for the Water Well Survey	June 17 1992	Correspondence	Shannon & Wilson	The SUMIKO Group	Hart Crowser
	LP-033-014		Corrective Action	June 25 1992	Reports/Work Plans	Shannon & Wilson	The SUMIKO Group	Hart Crowser
	LP-033-015		Cost Proposal for Biannual Sampling and Analysis of Monitoring Wells	June 25 1992	Correspondence	Shannon & Wilson	The SUMIKO Group	Hart Crowser
	LP-033-016		Response to Letter Requesting Corrective Action - Air Van Lines Site	July 11 1992	Correspondence	The SUMIKO Group	ADEC	Hart Crowser
	LP-033-017		Formal Notification of Existence of Contamination on Property	July 16 1992	Correspondence	John W. Abbott	Daniel J. Golden	Hart Crowser
	LP-033-018		Water Well Search Results	August 21 1992	Reports/Work Plans	Shannon & Wilson	The SUMIKO Group	Hart Crowser
	LP-033-019		Water Well Search Results and Sampling	September 9 1992	Correspondence	ADEC	The SUMIKO Group	Hart Crowser
	LP-033-020		Water Well Sampling at the Steelfab Facility	September 14 1992	Correspondence	Shannon & Wilson	The SUMIKO Group	Hart Crowser
	LP-033-021		Request for Sampling	September 18 1992	Correspondence	Shannon & Wilson	ARRC	Hart Crowser
	LP-033-022		September 1992 Groundwater Monitoring	October 15 1992	Reports/Work Plans	Shannon & Wilson	The SUMIKO Group	Hart Crowser
	LP-033-023		Remediation System Monitoring	August 27 1999	Reports/Work Plans	Shannon & Wilson	ADEC	Hart Crowser
	LP-033-024		Response to Remediation Summary Report - Air Van Lines	May 14 2001	Correspondence	ADEC	Shannon & Wilson	Hart Crowser
	LP-033-025		Groundwater Monitoring	August 19 2002	Reports/Work Plans	Shannon & Wilson	ADEC	Hart Crowser
	LP-033-026		Lab Data	November 2002	Lab Reports	CT&E Environmental		Hart Crowser
	LP-033-027		Groundwater Monitoring	August 18 2003	Reports/Work Plans	Shannon & Wilson	ADEC	Hart Crowser
	LP-033-028		Phase I Environmental Site Assessment	August 2003	Reports/Work Plans	Shannon & Wilson	Bond Stephens & Johns	Hart Crowser
	LP-033-029		Groundwater Monitoring Report Air Van Lines	February 10 2003	Correspondence	ADEC	The SUMIKO Group	Hart Crowser
	LP-033-030		Alaska UST LUST Site Status & Correspondence Report	April 11 2003	Reports/Work Plans	ADEC		Hart Crowser
	LP-033-031		Alaska UST Facility Summary Report - Air Van Lines	April 11 2003	Reports/Work Plans	ADEC		Hart Crowser
	LP-033-032		Lab Data	September 4 2003	Reports/Work Plans	CT&E Environmental		Hart Crowser
	LP-033-033		Alaska UST Leaking UST Site Status & Correspondence Report	May 19 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-033-034		Electronic Files -- Miscellaneous Documents					Hart Crowser
	LP-033-035		Contaminated Soil Cleanup	September 1993	Reports/Work Plans	Shannon & Wilson	The SUMIKO Group	Hart Crowser
	LP-033-036		April 1993 Groundwater Monitoring	May 7 1993	Reports/Work Plans	Shannon & Wilson	The SUMIKO Group	Hart Crowser
	LP-033-037		Site Assessment and Remediation of Diesel Impacted Smear Zone	January 12 1996	Reports/Work Plans	Shannon & Wilson	ADEC	Hart Crowser
	LP-033-038		Corrective Action Plan for the Diesel Impacted Smear Zone	December 11 1996	Reports/Work Plans	Shannon & Wilson	The SUMIKO Group	Hart Crowser
	LP-033-039		Remediation Status and Groundwater Monitoring	May 3 2001	Reports/Work Plans	Shannon & Wilson	ADEC	Hart Crowser
	LP-033-040		Record of Decision / Air Van Lines	August 12 2004	Correspondence	ADEC	The SUMIKO Group	ARRC
LP-034 1000 Whitney Road								Condensed Summary
	LP-034-001		Summary of Site & SWMUs		Reports/Work Plans			Hart Crowser
	LP-034-002		Map Findings MV Constructor Co.					Hart Crowser
	LP-034-003		Whitney Road Floating Product Investigation Report of Findings (Document is located in LP-991-034)	October 1999	Reports/Work Plans	CH2M Hill	ARRC	U.S. EPA (ATRAR)
LP-035 1520 & 1530 Post Road								
	No Documents							
LP-036 2002 Post Road								
	No Documents							
LP-037 1520-1530-1613 Post Road								
	No Documents							

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RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
			Document Description					
LP-038 333 Ship Creek Avenue								
	No Documents							
LP-039 Elm Street / Hollywood Dr.								
	No Documents							
LP-040 251 Post Road								
	No Documents							
LP-041 655 E. Ship Creek Ave.								
	No Documents							
LP-042 1115 Whitney Road								
	No Documents							
LP-043 1301 Post Road								
	LP-043-001		Map Findings Alaska Truck Center					Hart Crowser
LP-044 2433 Post Road								
	No Documents							
LP-045 1848 North Post Road								
	LP-045-001		Map Findings Post Road Surface Stain					Hart Crowser
	LP-045-002		Electronic Files -- Miscellaneous Documents					Hart Crowser
	LP-045-003		Phase I Environmental Site Assessment	July 19 2001	Reports/Work Plans	Michael Foster & Assoc.	Newberry Alaska	U.S. EPA (ATRAR)
	LP-045-004		Request for ADEC Approval Letter Surface-Stained Soil Removal	August 27 2001	Correspondence	Michael Foster & Assoc.	ADEC	Hart Crowser
	LP-045-005		Contaminated Sites Database New Site Form	August 27 2001	Permits/Applications/Forms			Hart Crowser
	LP-045-006		ADEC Approval of Interim Removal Action Plan / Request to Transport Contaminated Soil	August 30 2001	Correspondence	ADEC	Michael Foster & Assoc.	Hart Crowser
	LP-045-007		Contaminated Soil Removal	October 10 2001	Correspondence	Michael Foster & Assoc.	Newbery Alaska, Inc.	Hart Crowser
	LP-045-008		ADEC Approval of Final Report / Site Closure Approved	October 22 2001	Correspondence	ADEC	Michael Foster & Assoc.	Hart Crowser
	LP-045-009		Site Map 2001		Maps/Drawings/Photos			Hart Crowser
LP-046 Potter House Site								
	No Documents							
LP-047 Loop Road 500 Hollywood Drive								
	No Documents							

Alaska Railroad Document List

RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
			Document Description					
LP-048 209 Post Road								
	LP-048-001		Electronic Files - Miscellaneous Documents -- Several from 135 Post Road also					Hart Crowser
LP-049 101 West Whitney Road								Condensed Summary
	LP-049-001		UST Decommissioning / Site Assessment Report - Wrightway Auto Carriers	January 8 1993	Reports/Work Plans	R&M Consultants	Wrightway Auto Carriers	Hart Crowser
	LP-049-002		Site Assessment Report - Wrightway Auto Carriers	January 1993	Reports/Work Plans	R&M Consultants	Wrightway Auto Carriers	Hart Crowser
	LP-049-005		1991 Registration for Underground Storage Tanks	December 26 1991	Permits/Applications/Forms	ADEC		Hart Crowser
	LP-049-006		Alaska UST Leaking UST Site Status & Correspondence Report - Wrightway	May 16 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-049-007		Closure Notice for Alaska USTs	October 1 1992	Permits/Applications/Forms	ADEC		Hart Crowser
	LP-049-008		Summary of Site & SWMUs		Reports/Work Plans			Hart Crowser
	LP-049-009		Map Findings Wrightway Auto Carriers		Technical Data			Hart Crowser
	LP-049-010		Contaminated Site Data and Actions for 90210018401		Technical Data			Hart Crowser
	LP-049-011		Contaminated Site Database Ranking Data Entry Form	February 5 1991	Permits/Applications/Forms			Hart Crowser
	LP-049-012		ADEC Oil & Hazardous Waste Materials Incident Report Form	July 3 1990	Permits/Applications/Forms	ADEC		Hart Crowser
	LP-049-013		Wrightway Auto Photos		Maps/Drawings/Photos			Hart Crowser
	LP-049-014		Groundwater Sampling Results	September 12 2003	Reports/Work Plans	Shannon & Wilson	Fischer Properties	Hart Crowser
	LP-049-015		Miscellaneous Correspondence & Site Visit Notes (1990 - 1993)		Correspondence			Hart Crowser
LP-050 1860 Post Road								
	LP-050-001		RCRA Compliance Evaluation Inspection	October 31 2003	Correspondence	U.S. EPA	Harvey Daugherty	Hart Crowser
	LP-050-002		Lab Data	July 22 2003	Lab Reports	Analytica Environmental		Hart Crowser
	LP-050-003		Summary of Site & SWMUs		Reports/Work Plans			Hart Crowser
	LP-050-004		Electronic Files -- Miscellaneous Documents					Hart Crowser
LP-051 2530 Railroad Avenue								Condensed Summary
	LP-051-001		Electronic Files -- Miscellaneous Documents from ADEC CSD for Standard Steel (2400 Railroad)					Hart Crowser
LP-052 826 Whitney Road								
	No Documents							
LP-053 2121 Post Road								
	No Documents							

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Document Description								
RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
LP-054 Greenbelt								
	No Documents							
LP-055 800 E. Ship Creek Ave.								
	LP-055-001		Preliminary Monitoring Well Results	April 3 1990	Reports/Work Plans	Great Western Chemical	ARRC	Hart Crowser
	LP-055-002		Monitoring Well Installation	June 19 1990	Reports/Work Plans	Hart Crowser	Altex Distributing	Hart Crowser
	LP-055-003		AAA Moving & Storage Groundwater Contamination	September 12 1991	Correspondence	Christian Ryll	Bonnie Bailey	Hart Crowser
	LP-055-004		Property Lease Information	March 4 2004				Hart Crowser
	LP-055-005		Map Findings Great Western Chemical Co.		Technical Data			Hart Crowser
LP-056 Steel Fabricators								
	LP-056-001		Water Well Search Results and Sampling	September 9 1992	Correspondence	ADEC	The SUMIKO Group	Hart Crowser
	LP-056-002		Submittal for Review and Approval - Corrective Action Plan	October 7 1992	Reports/Work Plans	AGI, Inc.	ADEC	Hart Crowser
	LP-056-003		Closure / No Further Action	May 3 1993	Correspondence	ADEC	Providence Hospital	Hart Crowser
	LP-056-004		Alaska UST Facility Summary Report - Steel Fabricators	May 16 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-056-005		Map Findings Steel Fabricators		Technical Data			Hart Crowser
	LP-056-006		Summary of Site & SWMUs		Reports/Work Plans			Hart Crowser
	LP-056-007		Electronic Files -- Miscellaneous Documents					Hart Crowser
LP-057 327 W. Ship Creek Ave.								
	LP-057-001		Inspection Report to Gather Information for Facility Compliance	August 20 1996	Reports/Work Plans	U.S. EPA	ARRC	U.S. EPA (ATRAR)
	LP-057-002		Site Maps					U.S. EPA (ATRAR)
LP-058 111 W. Ship Creek Ave.								Condensed Summary
	No Documents							
LP-059 Tidelands								Condensed Summary
	No Documents							
LP-060 790 Ocean Dock Road								
	LP-060-001		Phase I Environmental Site Assessment North Star Terminal & Stevedore Co.	July 16 1996	Reports/Work Plans	AGRA Earth & Environmental	BP Exploration (Alaska) Inc.	Hart Crowser
	LP-060-002		Phase II Environmental Site Assessment Report	August 1998	Reports/Work Plans	TELLUS, Ltd.	Eide & Miller	Hart Crowser
	LP-060-003		Request to Transport Contaminated Soil (Attached - Workplan for Additional Soil Characterization dated September 1998 by EMCON Alaska)	July 15 1999	Correspondence	ADEC	RA Environmental	Hart Crowser
	LP-060-004		Final Contamination Assessment Report Port of Anchorage	April 2002	Reports/Work Plans	SLR Alaska	BP Exploration (Alaska) Inc.	Hart Crowser
	LP-060-005		Workplan for Additional Soil Characterization	September 1998	Reports/Work Plans	EMCON Alaska	BP Exploration (Alaska) Inc.	Hart Crowser
	LP-060-006		BPXA North Star Stevedore Sampling Plan	September 25 1998	Correspondence	ADEC	BP Exploration (Alaska) Inc.	Hart Crowser
	LP-060-007		Final Contamination Assessment Report Northstar Fabrication Site	November 22 1999	Correspondence	ADEC	BP Exploration (Alaska) Inc.	Hart Crowser
	LP-060-008		Summary of Site & SWMUs		Reports/Work Plans			Hart Crowser

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RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
			Document Description					
LP-061 South of Ship Creek								
	No Documents							
LP-062 128 W. 1st Aenue								
	No Documents							
LP-063 1730 & 1820 Railroad Avenue								
	No Documents							
LP-064 "C" Street and First Avenue								
	No Documents							
LP-065 Whitney Road (within Railyard)								
	LP-065-001		ADEC Contaminated Sites Database Site Report for Alaska Railroad Princess/Westours	May 18 2004	Reports/Work Plans	ADEC	ARRC	Hart Crowser
	LP-065-002		Princess Tours / Westour Final Construction Information ADEC Spill	June 3 1994	Reports/Work Plans	Alaska Railroad	ADEC	Hart Crowser
	LP-065-003		Draft Supplemental Site Assessment Final Report	June 1994	Reports/Work Plans	Environmental Services LTD	Holland America Line / Westours Inc.	Hart Crowser
	LP-065-004		Sampling Report for ARRC / Princess Tours & Westours Const. Project	April 12 1994	Reports/Work Plans	Alaska Railroad	ADEC	Hart Crowser
	LP-065-005		Supplemental Site Assessment	December 1993	Reports/Work Plans	Environmental Services LTD	Holland America Line / Westours Inc.	Hart Crowser
	LP-065-006		Level I & II Environmental Site Assessment and Geotechnical Recommendations Princess Tours / Westours Leasehold Properties	July 1992	Reports/Work Plans	RZA AGRA Alaska	Princess Tours / Westours	Hart Crowser
	LP-065-007		Supplemental Site Assessment Final Report	August 1994	Reports/Work Plans	Environmental Services LTD	Holland America Line / Westours Inc.	Hart Crowser
	LP-065-009		Draft Supplemental Site Assessment Final Report	July 1994	Reports/Work Plans	Environmental Services LTD	Holland America Line / Westours Inc.	Hart Crowser
	LP-065-010		Comments - Draft June 1994 Report	July 11 1994	Correspondence	ARRC	Westours	Hart Crowser
	LP-065-012		Environmental Baseline Assessment RCT Railyard Facility	March 2001	Reports/Work Plans	Shannon & Wilson	Criterion General Inc.	Hart Crowser
	LP-065-013		Miscellaneous Correspondence (1992 - 1998)		Correspondence			Hart Crowser
	LP-065-014		Site Photos		Maps/Drawings/Photos			Hart Crowser
	LP-065-015		Final Report Results of Diesel-Range Organic Analyses of Soils	November 27 1994	Reports/Work Plans	Boreochem Laboratory	ARRC	Hart Crowser
	LP-065-016		Figure 14 - Interim Location of Stockpiles		Maps/Drawings/Photos			U.S. EPA (ATRAR)
	LP-065-017		Site Figures and Drawings		Maps/Drawings/Photos			U.S. EPA (ATRAR)
	LP-065-018		Site Figures and Drawings		Maps/Drawings/Photos			U.S. EPA (ATRAR)
	LP-065-019		Receipts of Contaminated Materials with Lab Data	1994	Correspondence	Environmental Systems	ARRC	U.S. EPA (ATRAR)

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			Document Description					
LP-066								
2114 Railroad Avenue								
	No Documents							
LP-067								Condensed Summary
Along rail line south on W. Tudor Road								
	LP-067-001	SC-001	Monitoring Wells & Oil Collection Gallery Ship Creek Rail Yard (Excerpts Only)	August 1989	Reports/Work Plans	Shannon & Wilson	ADEC	Hart Crowser
	LP-067-002		Underground Storage Tank Closure Additional Site Characterization -- KAPP 229 Whitney Road	June 25 1990	Reports/Work Plans	Dames & Moore	Hobbs Industries	Hart Crowser
	LP-067-003		Knik Arm Power Plant Site Environmental Soil Sampling & Laboratory Analysis Report -- 229 Whitney Road, Excerpt of LP-120-005	February 28 1991	Reports/Work Plans			Hart Crowser
	LP-067-004		Ship Creek Water Quality Assessment Draft report		Reports/Work Plans			Hart Crowser
	LP-067-008		Watershed Activity Checklist & Report -- Ship Creek	1997	Regulations	ADEC		Hart Crowser
	LP-067-009		Draft Sampling & Quality Assurance Plan Ship Creek Brownfields Site Assessment	October 24 1997	Reports/Work Plans	Ecology & Environment	U.S. EPA	Hart Crowser
	LP-067-010		Final Sampling & Quality Assurance Plan Ship Creek Brownfields Site Assessment	November 14 1997	Reports/Work Plans	Ecology & Environment	U.S. EPA	Hart Crowser
	LP-067-011		Ship Creek Enhancement Recommendations to the Mayor of Anchorage and the ARRC	March 1997	Reports/Work Plans	Ship Creek Enhancement Citizens Advisory Task Force		Hart Crowser
	LP-067-014	SC-032	Final Sampling & Quality Assurance Plan Ship Creek Brownfields Site Assessment	September 1998	Reports/Work Plans	Ecology & Environment	U.S. EPA	Hart Crowser
	LP-067-015		Drilling Logs	October 1998	Reports/Work Plans	Discovery Drilling		Hart Crowser
	LP-067-016		Brownfields Site Assessment Report Ship Creek Brownfields Site	May 1999	Reports/Work Plans	Ecology & Environment	U.S. EPA	Hart Crowser
	LP-067-017		Targeted Brownfields Assessment Report Ship Creek Brownfields Site	November 1999	Reports/Work Plans	Ecology & Environment	U.S. EPA	Hart Crowser
	LP-067-022		Sediment & Surface Water / Ship Creek Analytical Results	April 1999	Lab Results	ADEC	Alaska Fish & Game	Hart Crowser
	LP-067-023		Knik Arm Power Plant Site Analytical Results -- Same as LP-120-023	April 26 1999	Lab Results	ADEC	ARRC	Hart Crowser
	LP-067-024		Proposal Site Characterization & Waste Management Hobbs Industries - Transformer Oil Spill	August 10 1998	Reports/Work Plans	Dames & Moore	Hobbs Industries	Hart Crowser
	LP-067-027		Site Photos and Notes		Maps/Drawings/Photos			Hart Crowser
	LP-067-028		Newspaper Articles (1998 & 1999)		Publication			Hart Crowser
	LP-067-029		Grant	August 27 1993	Legal Document			Hart Crowser
LP-068								
628 Ocean Dock Road								
	No Document							
LP-069								Condensed Summary
720 Whitney Road								
	LP-069-001		Pools of Oil Located on Lease Premises	June 12 1996	Correspondence	ARRC	Deans Automotive	Hart Crowser
	LP-069-002		Notice of Violation	August 7 1996	Correspondence	ARRC	Deans Automotive	Hart Crowser
	LP-069-003		Map Findings Dean's Auto Salvage		Technical Data			Hart Crowser
	LP-069-004		Alaska UST Facility Summary Report - McDonald Industries of Alaska	May 18 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-069-005		Summary of Site & SWMUs		Reports/Work Plans			Hart Crowser
	LP-069-006		Electronic Files - Miscellaneous Documents					Hart Crowser
LP-070								
333 Ship Creek Avenue								
	No Documents							

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			Document Description					
LP-071								
241 W. Ship Creek Avenue								
	No Documents							
LP-072								
1849 Ship Avenue								
	LP-072-001		Electronic Files -- Miscellaneous Documents					Hart Crowser
LP-073								
500 E. Ship Creek Avenue								
LP-074								
601 Yakutat Street								
	No Documents							
LP-075								
250, 298 & 313 E. Ship Creek								
	No Documents							
LP-076								
1940 Post Road								
	LP-076-001		Site Assessment Results	December 23 2002	Correspondence	ADEC	ARRC	U.S. EPA (ATRAR)
LP-077								
600 E. Ship Creek Avenue								
	No Documents							
LP-078								Condensed Summary
816 Whitney Road								
	No Documents							
LP-079								Condensed Summary
1115 East Whitney Road								
	LP-079-001		Site Inspection and Underground Storage Tank Removal	April 25 1990	Correspondence	Business Planning & Financial Services	ARRC	Hart Crowser
	LP-079-002		Removal of Second Underground Storage Tank	July 9 1990	Correspondence	Business Planning & Financial Services	ARRC	Hart Crowser
	LP-079-003		Placement of Boring/Monitoring Wells on ARRC Property	January 25 1991	Correspondence	Shannon & Wilson	ARRC	Hart Crowser
	LP-079-004		ADEC Contaminated Sites Database Site Report for Service America	May 18 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-079-005		Summary of Site & SWMUs		Reports/Work Plans			Hart Crowser
	LP-079-006		Map Findings Service America		Technical Data			Hart Crowser
	LP-079-007		Notice of Violation / Request for Corrective Action - Feb. 21, 1990 Inspection	February 22 1990	Correspondence	ADEC	Business Planning & Financial Services	Hart Crowser
	LP-079-008		Oil & Hazardous Materials Incident Report Form	February 21 1990	Permits/Applications/Forms	ADEC		Hart Crowser
	LP-079-009		Contaminated Site Data Entry Form		Permits/Applications/Forms			Hart Crowser
	LP-079-010		Notice of Violation / Request for Corrective Action - Feb. 21, 1989 Inspection	February 22 1990	Correspondence	ADEC	Business Planning & Financial Services	Hart Crowser
	LP-079-011		LUST TRUST Spill Status Report	February 22 1990	Permits/Applications/Forms			Hart Crowser
	LP-079-012		Quality Assurance Project Plan (Revision 1)	January 31 1991	Reports/Work Plans	Shannon & Wilson	ADEC	Hart Crowser
	LP-079-013		Miscellaneous Correspondence Concerning Notice of Violation (1990)	1990	Correspondence			Hart Crowser
	LP-079-014		Underground Storage Tank Removal Monitoring	April 1990	Reports/Work Plans	Shannon & Wilson	Dennis Loch	Hart Crowser

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			Document Description					
	LP-079-015		Underground Storage Tank #2 (UST) Removal Monitoring	June 1990	Reports/Work Plans	Shannon & Wilson	Dennis Loch	Hart Crowser
	LP-079-016		Petroleum Hydrocarbon Assessment	May 1991	Reports/Work Plans	Shannon & Wilson	Security Pacific Bank	Hart Crowser
	LP-079-017		Miscellaneous Correspondence Concerning Disposal of Waste Soils from Underground Storage Tank Excavation (1990 & 1991)		Correspondence			Hart Crowser
	LP-079-018		Phase I Environmental Site Assessment of Lots 127 and 128 of ARRC Terminal Reserve	June 1996	Reports/Work Plans	Restoration Science & Engineering		Hart Crowser
	LP-079-019		Site Map	January 1991	Maps/Drawings/Photos	Shannon & Wilson	ARRC	Hart Crowser
LP-080 155 W. 1st Avenue (Partial)								
	No Documents							
LP-081 751 E. Loop Road								
	No Documents							
LP-082 2401 Viking Drive								
	LP-082-001		Summary of Work & Analytical Results for Soil & Sediment Samples	March 26 2004	Reports/Work Plans	Hart Crowser	ARRC	Hart Crowser
LP-083 2193 Viking Drive								
	LP-083-001		Alaska UST Facility Summary Report - Facility 178 Alaska Industrial Hardware	May 18 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-083-002		Map Findings		Technical Data			Hart Crowser
	LP-083-003		Summary of Site & SWMUs		Reports/Work Plans			Hart Crowser
	LP-083-005		Electronic Files -- Miscellaneous Documents					Hart Crowser
LP-084 658 Ocean Dock Road								
	No Documents							
LP-085 1300 & 1500 Post Road								
	LP-085-001		Underground Storage Tank Site Assessment	November 1992	Reports/Work Plans	Terrasat	C.R. Lewis Co. Inc.	Hart Crowser
	LP-085-002		Monitoring Well Installation, Water Sampling and Release Investigation	June 1996	Reports/Work Plans	Terrasat	C.R. Lewis Co. Inc.	Hart Crowser
	LP-085-003		Addendum to Monitoring Well Installation, Water Sampling and Release Investigation Report	May 16 1997	Reports/Work Plans	Terrasat	C.R. Lewis Co. Inc.	Hart Crowser
	LP-085-004		Groundwater Sampling Conducted on April 18, 1997 (Duplicate of LP-134-003 -- Data Entered in LP-134)	May 1 1997	Reports/Work Plans	Terrasat	C.R. Lewis Co. Inc.	Hart Crowser
	LP-085-005		Work Plan for Sampling of C.R. Lewis Monitoring Wells	April 2 1997	Reports/Work Plans	Terrasat	C.R. Lewis Co. Inc.	Hart Crowser
	LP-085-006		Remediation Design Approval for Former C.R. Lewis Property	June 3 1997	Reports/Work Plans	Terrasat	ADEC	Hart Crowser
	LP-085-007		Request for Continuation Funding for C.R. Lewis Co.	September 28 1998	Correspondence	Terrasat	UST Financial Assistance Program	Hart Crowser
	LP-085-008		Status Report for C.R. Lewis Co.	November 3 1998	Correspondence	Terrasat	UST Financial Assistance Program	Hart Crowser
	LP-085-009		Final FY 2003 Priority Ranking Lists for UST Cleanup Grants	July 2 2002	Correspondence	ADEC	C.R. Lewis Co. Inc.	Hart Crowser
	LP-085-010		Phase 1 Reports - C.R. Lewis Lease Property	July 2 1998	Correspondence	ARRC	C.R. Lewis Co. Inc.	Hart Crowser
	LP-085-011		Alaska UST Facility Summary Report - C.R. Lewis Co.	May 18 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-085-013		Map Findings C.R. Lewis Co. Inc.		Technical Data			Hart Crowser
	LP-085-014		Lab Data	April 28 1997	Lab Reports	Analytica Alaska Inc.	Terrasat	Hart Crowser
	LP-085-015		Lab Data	April 28 1997	Lab Reports	Analytica Alaska Inc.	Terrasat	Hart Crowser

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			Document Description					
	LP-085-016		Lab Data	June 3 1997	Lab Reports	Columbia Analytical Services	Terrasat	Hart Crowser
	LP-085-017		Lab Data	April 9 1998	Lab Reports	Columbia Analytical Services	Terrasat	Hart Crowser
	LP-085-018		Lab Data	April 10 1998	Lab Reports	Analytica Alaska Inc.	Terrasat	Hart Crowser
	LP-085-019		Lab Data	May 15 1998	Lab Reports	Analytica Alaska Inc.	Terrasat	Hart Crowser
	LP-085-020		Lab Data	July 27 1998	Lab Reports	Columbia Analytical Services	ARRC	Hart Crowser
	LP-085-021		Revised Remediation Design Approval for Former C.R. Lewis Property	June 10 1997	Correspondence	Terrasat	ADEC	Hart Crowser
LP-086 786 & 800 Delaney Street								
	LP-086-001		Final Report 1990 UST Removal and Site Characterization (786 and 800 Delaney Street, Talkeetna Section, Portage Section, 1628 Post Road)	February 1991	Reports/Work Plans	ENSR	ARRC	Hart Crowser
LP-087 303 Ship Creek Avenue								
	No Documents							
LP-88 ROW								
	No Documents							
LP-089 319 E. Ship Creek Avenue								
	No Documents							
LP-090								Condensed Summary
920 Whitney Road								
	LP-090-001		Notification of Closure of USTs Central Corps Redevelopment	April 23 1998	Permits/Applications/Forms	ADEC		Hart Crowser
	LP-090-002		Site Assessment Reports	July 29 1998	Correspondence	ARRC	ADEC	Hart Crowser
	LP-090-003		UST Site Assessment Results	September 10 1998	Correspondence	ADEC	ARRC	Hart Crowser
	LP-090-004		UST Site Assessment Results	September 21 1998	Correspondence	ADEC	ARRC	Hart Crowser
	LP-090-005		UST Site Assessment Results	November 12 1998	Correspondence	ADEC	ARRC	Hart Crowser
	LP-090-006		Alaska UST Facility Summary Report - Central Corps Redevelopment	May 17 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-090-007		Alaska UST Leaking UST Site Status and Correspondence Report	May 18 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-090-008		ADEC Contaminated Sites Database - Arctic Cooperage	May 18 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-090-009		May Findings Central Corps Redevelopment		Technical Data			Hart Crowser
	LP-090-010		Summary of Site & SWMUs		Reports/Work Plans			Hart Crowser
	LP-090-011		Underground Storage Tank: Site Assessment Results	July 1998	Reports/Work Plans	CH2MHill	ARRC	Hart Crowser
	LP-090-012		Upgrade/Closure Priority Ranking Questionnaire	April 1998	Permits/Applications/Forms	Jamie Bernard	State of Alaska	Hart Crowser
	LP-090-013		Miscellaneous ADEC Correspondence (1998)	1998	Correspondence			Hart Crowser
LP-091 1748 Post Road								
	LP-091-001		Electronic Files - Miscellaneous Documents					Hart Crowser
LP-092 1519 Ship Avenue								
	LP-092-001		Phase I & II Environmental Site Assessment for Closure of the 1705 Ship Avenue Underground Storage Tank Site	August 1992	Reports/Work Plans	RZA Agra Alaska	MAT-SU, Inc.	Hart Crowser
	LP-092-002		Statement of Discovery of Underground Storage Tanker	November 13 1991	Correspondence	Carlile Enterprises	ADEC	Hart Crowser

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			Document Description					
	LP-092-003		Alaska UST Facility Summary Report - 1519 Ship Ave.	May 17 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-092-004		Map Findings Carlile Enterprises		Technical Data			Hart Crowser
	LP-092-005		Alaska UST Facility Summary Report - 1519 Ship Ave.	May 18 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-092-006		ADEC Contaminated Sites Database Site Report for Alaska Auto Carriers -- 1600 Ship Avenue	May 18 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-092-007		ADEC Contaminated Sites Database Site Report for Sahlberg Equipment -- 1702 Ship Avenue	May 18 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-092-008		ADEC Contaminated Sites Database Site Report for Weaver Brothers -- 1611 East 1st Avenue	May 20 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-092-009		Partial Reports with Site and SWMU Descriptions		Reports/Work Plans			Hart Crowser
	LP-092-010		Phase I & Limited Phase II Environmental Site Assessment - 1519 Ship Avenue	March 29 2004	Reports/Work Plans	White Environmental Consultants	Swalling Construction	Hart Crowser
	LP-092-011		Carlile Tank Closure	1992	Reports/Work Plans	ADEC		Hart Crowser
	LP-092-012		Alaska Underground Storage Tank Leaking UST Site Status and Correspondence Report - Carlile Trucking	May 14 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-092-013		Lab Data	January 22 2004	Lab Reports	Analytica Env. Labs		ARRC
	LP-092-014		Lab Data	March 1 2004	Lab Reports	Analytica Env. Labs		ARRC
	LP-092-015		Lab Data	March 3 2004	Lab Reports	Analytica Env. Labs		ARRC
	LP-092-016		Phase I & Limited Phase II Environmental Site Assessment - 1519 Ship Avenue --- With Appendices A -J	March 29 2004	Reports/Work Plans	White Environmental Consultants	Swalling Construction	ARRC
	LP-092-017		Closure / No Further Action Carlile Trucking Leaking UST	February 16 1993	Correspondence	ADEC	Carlile Enterprises	Hart Crowser
	LP-092-018		Electronic Files -- Miscellaneous Documents					Hart Crowser
LP-093 721.W. 1st Avenue								
	LP-093-001		Map Findings M-1 Drilling Fluids Co.		Technical Data			Hart Crowser
	LP-093-002		Limited Phase I and Baseline Phase II Environmental Site Assessment	January 2001	Reports/Work Plans	ENSR	M-I LLC	Hart Crowser
	LP-093-003		Remedial Activities Report Former AST Location	March 2002	Reports/Work Plans	ENSR	M-I LLC	Hart Crowser
LP-094 2301 Spar Avenue								
	LP-094-001		Site Assessment Report	October 28 1997	Reports/Work Plans	TELLUS, Ltd.	CleanSoils Alaska	Hart Crowser
	LP-094-002		Site Assessment Report Addendum No. 2	February 20 1998	Reports/Work Plans	TELLUS, Ltd.	CleanSoils Alaska	Hart Crowser
	LP-094-003		Site Assessment for Used Oil Storage at 2301 Spar Avenue	June 15 1998	Reports/Work Plans	Alaska Soil Recycling	ADEC	Hart Crowser
	LP-094-004		Remediation of Soil from 2301 Spar Avenue - Lab Results	July 9 1998	Correspondence	Anchorage Sand & Gravel	ADEC	Hart Crowser
	LP-094-005		Abandonment and Replacement of Monitoring Wells	July 28 1998	Correspondence	Alaska Soil Recycling	ADEC	Hart Crowser
	LP-094-006		Suspected Petroleum Contamination at 2301 Spar Avenue	July 31 1998	Correspondence	Alaska Soil Recycling	ADEC	Hart Crowser
	LP-094-007		Meeting of August 10, 1998	August 11 1998	Correspondence	Alaska Soil Recycling	ADEC	Hart Crowser
	LP-094-008		Approval for Stockpiling Soils at Alaska Soil Recycling 2301 Spar Avenue	September 15 1998	Correspondence	ADEC	Alaska Soil Recycling	Hart Crowser
	LP-094-009		Operations Plan Approval for Alaska Soil Recycling	October 28 1998	Correspondence	ADEC	Alaska Soil Recycling	Hart Crowser
	LP-094-010		Soil and Groundwater Investigation	October 1998	Reports/Work Plans	ENSR	Alaska Soil Recycling	Hart Crowser
	LP-094-011		Phase I Environmental Site Assessment	March 30 1998	Reports/Work Plans	ENSR	Alaska Basic Industries	Hart Crowser
	LP-094-012		Soil Disposal from Lake Hood Diesel Spill with Lab Results	June 5 1999	Reports/Work Plans	Alaska Soil Recycling	Wilder Construction	Hart Crowser
	LP-094-013		Soil Sample Results, Anchorage Clean Soils Recycling Facility	September 24 1996	Correspondence	EH&C	CleanSoils Alaska	Hart Crowser
	LP-094-014		Addendum to Work Plan for the Sampling of Monitoring Wells # 1 - 4	July 8 1998	Correspondence	Alaska Soil Recycling	ADEC	Hart Crowser
	LP-094-015		Stockpiling Request for 2301 Spar Avenue	September 9 1998	Correspondence	Alaska Soil Recycling	ADEC	Hart Crowser
	LP-094-016		Former Clean Soils Facility	April 22 1998	Correspondence	ADEC	Alaska Soil Recycling	U.S. EPA (ATRAR)
	LP-094-017		Work Plan for the Investigation/Clean-up of the Used Oil Storage Area	May 1 1998	Correspondence	Alaska Soil Recycling	ADEC	U.S. EPA (ATRAR)
	LP-094-018		Clean Up of 2301 Spar Avenue Site	April 17 1997	Correspondence	Alaska Soil Recycling	ADEC	U.S. EPA (ATRAR)
	LP-094-019		Certificate of Disposal/Recycle	April 10 1998	Correspondence	CleanSoils	ADEC	U.S. EPA (ATRAR)
	LP-094-020		Site Assessment Report for Contaminated Soil Removal from Drum Storage Area	June 1998	Reports/Work Plans	Oil Spill Consultants	ADEC	U.S. EPA (ATRAR)
LP-095 619.E. Ship Creek Avenue								
	No Documents							

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RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
			Document Description					
LP-096 ROW								
	No Documents							
LP-097 Loop Road & Hollywood Drive								
	No Documents							
LP-098 1224 Whitney Road								
	LP-098-001		Map Findings		Technical Data			Hart Crowser
LP-099 2111 Viking Drive								
	No Documents							
LP-100 ROW								
	No Documents							
LP-101 660 Ocean Dock Road								
	No Documents							
LP-102 ROW								
	No Documents							
LP-103 ROW								
	No Documents							
LP-104 ROW								
	No Documents							

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RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
LP-105 1628 Post Road / 1614 Post Road								Condensed Summary
	LP-105-001		Letter and Photos RE Floor Drains at three addresses	July 15 2003	Correspondence	Saturn Construction	ARRC	
	LP-105-002		Work Plan UST Removal & Site Assessment (825 Whitney Rd, 1628 Post Rd, Portage Section & Tunnel Section)	August 1990	Reports/Work Plans	ENSR	ARRC	Hart Crowser
	LP-105-003		Final Report 1990 UST Removal and Site Characterization (786 and 800 Delaney Street, Talkeetna Section, Portage Section, 1628 Post Road)	February 1991	Reports/Work Plans	ENSR	ARRC	Hart Crowser
	LP-105-005		Alaska UST Facility Summary Report - Facility 2821 ARRC with Decommissioning Notice	May 17 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-105-006		Complaint Report	December 13 1979	Permits/Applications/Forms	ARRC		Hart Crowser
	LP-105-007		Final Report Ensure 1990 Underground Storage Tank Removal	November 30 1992	Correspondence	ARRC	ADEC	Hart Crowser
	LP-105-008		Alaska UST Leaking UST Site Status & Correspondence Report - 1628 Post Road	May 19 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-105-009		Map Findings 1628 Post Road		Technical Data			Hart Crowser
	LP-105-010		Summary of Site & SWMUs		Reports/Work Plans			Hart Crowser
	LP-105-011		Site Location Maps and Tables		Reports/Work Plans	ENSR		Hart Crowser
LP-106 421 W. 1st Avenue								
	No Documents							
LP-107 155 1st Avenue								
	LP-107-001		Map Findings ARRC Freight Shed		Technical Data			Hart Crowser
	LP-107-002		Addendum to February 2003 Phase I Environmental Site Assessment, Ship Creek Intermodal Transportation Center	March 9 2004	Correspondence	Shannon & Wilson	HDR Alaska, Inc.	Hart Crowser
	LP-107-003		Electronic Files -- Miscellaneous Documents					Hart Crowser
LP-108 Ship Creek								
	No Documents							
LP-109 1425 Viking Drive								Condensed Summary
	LP-109-001		May Findings Beats Walkin		Technical Data			Hart Crowser
LP-110 2400 (2332) Railroad Avenue								
	LP-110-001		UST Removals and Investigations - Final Report	May 24 1996	Correspondence	ADEC	ARRC	Hart Crowser
	LP-110-002		UST Removals	June 6 1996	Correspondence	ARRC	ADEC	Hart Crowser
	LP-110-003		Alaska UST Facility Summary Report - Facility 1085 Riedel-Alaska	May 17 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-110-004		Alaska UST Faculty Summary Report - Facility 2973 Ben Lomond	May 18 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-110-007		Summary of Site & SWMUs		Reports/Work Plans			Hart Crowser
	LP-110-008		Map Findings Standard Steel		Technical Data			Hart Crowser
	LP-110-009		UST Removals and Investigations: Railroad Avenue Site, H&S Forwarders Site	January 1996	Reports/Work Plans	ENSR	ARRC	Hart Crowser
	LP-110-010		Electronic Files -- Miscellaneous Documents -- Standard Steel					Hart Crowser

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RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
			Document Description					
LP-111 601 Whitney Road								
	No Documents							
LP-112 1101 E. Whitney Raod								Condensed Summary
	LP-112-001		Map Findings Alaska Wholesale		Technical Data			Hart Crowser
LP-113 737 Ship Creek Avenue								
	No Documents							
LP-114 ROW								
	No Documents							
LP-115 101 N. Post Road								
	LP-115-001		Electronic Files -- Miscellaneous Documents -- UST Adjacent Properties					Hart Crowser
LP-116 1200 Whitney Road								
	No Documents							
LP-117 155 W. 1st Avenue								
	No Documents							
LP-118 ROW								
	No Documents							
LP-119 Second Avenue & "H" Street								
	No Documents							
LP-120 229 Whitney Road								Condensed Summary
	LP-120-001	SC-005	Ship Creek Targeted Brownfields Assessment Report	November 1999	Reports/Work Plans	Ecology & Environment Inc.	EPA	Hart Crowser
	LP-120-002		ADEC Contaminated Database Site Report for Knik Arm Power Plant		Technical Data	ADEC		Hart Crowser
	LP-120-003		Leaking UST Site Status and Correspondence Report		Technical Data			Hart Crowser
	LP-120-004	SC-003	Environmental Assessment of the Knik Arm Power Plant & Associated Properties	December 28 1990	Reports/Work Plans	Environmental Services, Ltd.		Hart Crowser
	LP-120-005		Environmental Soil Sampling & Laboratory Analysis Report	February 28 1991	Reports/Work Plans	Environmental Management, Inc.	Chugach Electric Assoc.	Hart Crowser
	LP-120-006		Environmental Report Knik Arm Power Plant	March 1991	Reports/Work Plans	Chugach Electric Assoc.		Hart Crowser
	LP-120-007		Sample Plan Alteration Form	October 30 1998	Reports/Work Plans	Ecology & Environment Inc.	U.S. EPA	Hart Crowser
	LP-120-008		Quality Assurance Summary Review Memoranda	February 12 1999	Lab Reports	Ecology & Environment Inc.		Hart Crowser
	LP-120-009		Global Positioning System Data		Technical Data			Hart Crowser
	LP-120-010		Drilling Logs		Technical Data			Hart Crowser
	LP-120-011		Map Findings Knik Arm Power Plant		Technical Data			Hart Crowser
	LP-120-012		Inorganic Data Quality Assurance Summary Check -- Ship Creek Brownfields	November 25 1998	Lab Reports	Ecology & Environment Inc.		Hart Crowser
	LP-120-013		Inorganic Data Quality Assurance Summary Check -- Ship Creek Brownfields	December 23 1998	Lab Reports	Ecology & Environment Inc.		Hart Crowser

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	LP-120-014		Inorganic Data Quality Assurance Summary Check -- Ship Creek Brownfields	November 18 1998	Lab Reports	Ecology & Environment Inc.		Hart Crowser
	LP-120-015		Organic Data Quality Assurance Summary Check -- Ship Creek Brownfields	December 8 1998	Lab Reports	Ecology & Environment Inc.		Hart Crowser
	LP-120-016		Organic Data Quality Assurance Summary Check -- Ship Creek Brownfields	November 19 1998	Lab Reports	Ecology & Environment Inc.		Hart Crowser
	LP-120-017		Organic Data Quality Assurance Summary Check -- Ship Creek Brownfields	November 12 1998	Lab Reports	Ecology & Environment Inc.		Hart Crowser
	LP-120-018	SC-044	Figure 3: Knik Arm Power Plant Sediment Sample Summary		Maps/Drawings/Photos	Steigers		Hart Crowser
	LP-120-019	SC-043	Transmittal of Site Investigation Report KAPP Diversion Pond Sediment Sampling & Analysis (Includes Text of Report only)	May 2000	Correspondence	Steigers & T&R Environmental Consulting	ADEC	Hart Crowser
	LP-120-020	SC-075	Ship Creek Brownfields Site Assessment Final Sampling and Quality Assurance Plan	September 1998	Reports/Work Plans	Region X START Superfund Technical Assessment & Response Team	U.S. EPA	Hart Crowser
	LP-120-021	SC-239	Site Investigation Report KAPP Diversion Pond Sediment Sampling & Analysis	May 2000	Reports/Work Plans	Steigers & T&R Environmental Consulting	ADEC	Hart Crowser
	LP-120-022		Electronic Files -- Miscellaneous Documents					Hart Crowser
	LP-120-023		Sample Results	April 26 1999	Correspondence	U.S. EPA	ARRC	U.S. EPA (ATRAR)
	LP-120-024		Cleanup & Monitoring Site Logs	1998	Permits/Applications/Forms	ADEC		Hart Crowser
	LP-120-025		Progress Report	May 22 1998	Reports/Work Plans	Hobbs Industries	ADEC	Hart Crowser
	LP-120-026		Coastal Project Questionnaire & Permitting & Environmental Plan Knik Arm Power Plant	December 1999	Reports/Work Plans	Steigers Corp.		Hart Crowser
	LP-120-027		Knik Arm Power Plant/Ship Creek Development Project Overview	February 16 2000	Reports/Work Plans	ARRC		Hart Crowser
	LP-120-028		Site Investigation Sampling & Analysis Plan Ship Creek Diversion Pond Dredging / KAPP Repowering Project	March 2000	Reports/Work Plans	T&R Environmental Consulting	Marlow Power & Steam	Hart Crowser
	LP-120-029		ADEC Water Quality Program Comments - Ship Creek Diversion Pond Dredging, KAPP Repowering Project Site Investigation	March 23 2000	Reports/Work Plans	ADEC		Hart Crowser
	LP-120-030		Meeting Agenda - Transformer Oil Spill	May 28 1998	Meetings	ADEC		Hart Crowser
	LP-120-031		Notes of Conference from Pre-Application Meeting	February 24 2000	Meetings	Steigers Corp.	Office of the Governor	Hart Crowser
	LP-120-032		Contract for Sale of Used Equipment	August 26 1997	Legal Document			Hart Crowser
	LP-120-033		Commercial Recycling Center vs. Hobbs Industries	May 7 1999	Legal Document			Hart Crowser
	LP-120-034		Table 1: Soil & Water Sampling Results	May 1998	Reports/Work Plans			Hart Crowser
	LP-120-035		Lab Data	May 20 1998	Lab Results	CT&E Environmental	Hobbs Industries	Hart Crowser
	LP-120-036		Lab Data	May 5 1998	Lab Results	Columbia Analytical	ARRC	Hart Crowser
	LP-120-037		Lab Data	May 20 1998	Lab Results	Columbia Analytical	ADEC	Hart Crowser
	LP-120-038		Lab Data	May 22 1998	Lab Results	Columbia Analytical	ARRC	Hart Crowser
	LP-120-039		Lab Data	May 29 1998	Lab Results	CT&E Environmental	Hobbs Industries	Hart Crowser
	LP-120-040		Lab Data	June 23 1998	Lab Results	Columbia Analytical	ARRC	Hart Crowser
	LP-120-041		Lab Data	August 25 1998	Lab Results	Columbia Analytical	ARRC	Hart Crowser
	LP-120-042		Lab Data	August 25 1998	Lab Results	CT&E Environmental	Hobbs Industries	Hart Crowser
	LP-120-043		Lab Data	September 17 1998	Lab Results	Columbia Analytical	ARRC	Hart Crowser
	LP-120-044		Lab Data	September 1998	Lab Results	Columbia Analytical	ARRC	Hart Crowser
	LP-120-045		Lab Data	October 8 1998	Lab Results	Manchester Environmental		Hart Crowser
	LP-120-046		Lab Data	November 13 1998	Lab Results	CT&E Environmental	Hobbs Industries	Hart Crowser
	LP-120-047		Lab Data	September 18 2000	Lab Results	Columbia Analytical	ARRC	Hart Crowser
	LP-120-048		Lab Data	August 8 2001	Lab Results	CT&E Environmental	Hobbs Industries	Hart Crowser
	LP-120-049		Miscellaneous Regulatory Documents & Information		Publications			Hart Crowser
	LP-120-050		Miscellaneous Correspondence (1990 - 2002)		Correspondence			Hart Crowser
LP-121 345 W. 1st Avenue	No Documents							

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RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
			Document Description					
LP-122 1716 Post Road								
	No Documents							
LP-123 900 Whitney Road								Condensed Summary
	LP-123-001		Spill #93-211-183-1 900 Whitney Road	March 7 1994	Correspondence	ADEC	Criterium Alaska Engineers	Hart Crowser
	LP-123-002		Underground Storage Tank Site Assessment Results	September 29 1998	Correspondence	CH2MHill	ARRC	Hart Crowser
	LP-123-003		Answers to Questions by CH2MHill	September 29 1998	Correspondence	ARRC	ADEC	Hart Crowser
	LP-123-004		Underground Storage Tank Release, Site Assessment	October 21 1998	Correspondence	ADEC	ARRC	Hart Crowser
	LP-123-005		Maps and Tables		Reports/Work Plans	CH2MHill		Hart Crowser
	LP-123-006		Oil & Hazardous Materials Incident Report Form	July 2 1993	Permits/Applications/Forms	ADEC		Hart Crowser
	LP-123-007		Alaska UST Facility Summary Report - Facility 3196 Black Gold Express	May 7 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-123-008		Alaska UST Leaking UST Site Status and Correspondence Report	May 18 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-123-009		Summary of Site & SWMUs		Reports/Work Plans			Hart Crowser
	LP-123-010		Map Findings Black Gold Express		Technical Data			Hart Crowser
	LP-123-011		900 Whitney Road Gasoline UST: Site Assessment Results	July 1998	Reports/Work Plans	CH2MHill	ARRC	Hart Crowser
	LP-123-012		Notification of Closure Underground Storage Tanks	4/23/1998	Permits/Applications/Forms	ADEC		Hart Crowser
	LP-123-013		Waiver from Requirement to Use Analytical Procedures for Hydrocarbon Analyses	5/4/1998	Correspondence	ADEC	ADEC	Hart Crowser
	LP-123-014		Concerns with Site Assessment Results	9/10/1998	Correspondence	ADEC	ARRC	Hart Crowser
	LP-123-015		Practice of Providing Copies of UST Projects Correspondence	11/12/1998	Correspondence	ADEC	ARRC	Hart Crowser
	LP-123-016		Certified UST Worker Number	5/8/1998	Correspondence	CH2MHill	ARRC	Hart Crowser
LP-124 222 E. Ship Creek Avenue								
	No Documents							
LP-125 1825 Ship Avenue / 1800 Viking Drive								Condensed Summary
	LP-125-001		UST Post-Closures	December 15 1994	Correspondence	ARRC	ADEC	Hart Crowser
	LP-125-002		Request for Site Closure	March 28 1996	Correspondence	ARRC	ADEC	Hart Crowser
	LP-125-003		Referral of Request for Site Closure to Storage Tank Program	April 1 1996	Correspondence	ADEC	ARRC	Hart Crowser
	LP-125-004		Alaska UST Facility Summary Report - Facility 2002 ARRC	May 15 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-125-005		ADEC Contaminated Sites Database Site Report for Mushroom Yard	May 18 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-125-006		Alaska UST Leaking UST Site Status and Correspondence Report - ARRC Boiler House	May 18 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-125-007		Summary of Site & SWMUs		Reports/Work Plans			Hart Crowser
	LP-125-008		Map Findings ARRC Mushroom Yard		Technical Data			Hart Crowser
	LP-125-009		Notice of Violation / Request for Corrective Action	September 19 1987	Permits/Applications/Forms			Hart Crowser

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RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
			Document Description					
	LP-125-010		Final Report UST Removal and Site Characterization (1825 Ship Avenue, 445 Warehouse Avenue, Eklutna Section Gas Car Shed)	Nov-89	Reports/Work Plans	ENSR	ARRC	
	LP-125-011		Electronic Files -- Miscellaneous Documents					Hart Crowser
LP-126 West of 619 E. Ship Creek Avenue								
	No Documents							
LP-127 200/250 Post Road								Condensed Summary
	LP-127-001		UST Program	June 5 1990	Correspondence	Environmental Services Ltd	ADEC	Hart Crowser
	LP-127-002		Copies of all Lab Reports to date	September 11 1998	Correspondence	Environmental Services Ltd	ADEC	Hart Crowser
	LP-127-003		Documents Relating to 250 Post Road Petroleum & PCB Contamination	September 11 1990	Correspondence	Environmental Services Ltd	ADEC	Hart Crowser
	LP-127-005		TCE Contaminated Soil Assessment	September 27 1999	Reports/Work Plans	Shannon & Wilson	Bond, Stephens, Johnson & Jackson	Hart Crowser
	LP-127-006		Additional TCE Contaminated Soil Assessment	September 29 1999	Reports/Work Plans	Shannon & Wilson	Bond, Stephens, Johnson & Jackson	Hart Crowser
	LP-127-007		Status Report of Activities Through Sept. 21 1999	September 30 1999	Reports/Work Plans	Shannon & Wilson	Bond, Stephens, Johnson & Jackson	Hart Crowser
	LP-127-009		Documents Pertaining to Site Characterization and Remedial Action Implementation	June 4 2003	Reports/Work Plans	Shannon & Wilson	ARRC	Hart Crowser
	LP-127-010		Baseline Environmental Site Assessment	September 1999	Reports/Work Plans	Shannon & Wilson	Kelly-Moore Paint Co.	Hart Crowser
	LP-127-011		Remedial Action Report	March 1993	Reports/Work Plans	Woodward-Clyde	Westinghouse Electric	Hart Crowser
	LP-127-012		Remedial Action Investigation	July 2003	Reports/Work Plans	Shannon & Wilson	Foster, Pepper, Rubini & Reeves	Hart Crowser
	LP-127-013		ADEC File Review	August 1999	Reports/Work Plans	Shannon & Wilson		Hart Crowser
	LP-127-015		Map Findings 250 Post Road & Swalling Construction		Technical Data			Hart Crowser
	LP-127-016		Miscellaneous Correspondence (1990 - 2003)					Hart Crowser
	LP-127-017		Remedial Action Feasibility Study and Work Plan	March 14 2003	Reports/Work Plans	Shannon & Wilson	ADEC	Hart Crowser
	LP-127-018		Remediation Work Plan	October 1991	Reports/Work Plans	Woodward-Clyde	Westinghouse Electric	Hart Crowser
	LP-127-019		Quality Assurance Plan	October 1991	Reports/Work Plans	Woodward-Clyde	Westinghouse Electric	Hart Crowser
	LP-127-020		Photos of Excavations		Maps/Drawings/Photos			Hart Crowser
	LP-127-021		Maps & Figures of Area		Maps/Drawings/Photos			Hart Crowser
	LP-127-022		Interim Remedial Action Report	April 1992	Reports/Work Plans	Woodward-Clyde	Westinghouse Electric	U.S. EPA (ATRAR)
	LP-127-023		Contamination Assessment Report Post-Mitigation Sampling and Analysis	March 27 1991	Reports/Work Plans	Environmental Services Ltd	Harold & Mary Lou Wirum	U.S. EPA (ATRAR)
	LP-127-024		Uniform Hazardous Waste Manifests		Permits/Applications/Forms	U.S. EPA		U.S. EPA (ATRAR)
	LP-127-025		Non-Hazardous Waste Manifest		Permits/Applications/Forms	U.S. EPA		U.S. EPA (ATRAR)
	LP-127-026		General Waste Product Questionnaire	July 3 2002	Permits/Applications/Forms	U.S. EPA		U.S. EPA (ATRAR)
	LP-127-027		Lab Data	September 2001	Lab Results			U.S. EPA (ATRAR)
	LP-127-028		Waste Product Questionnaire		Permits/Applications/Forms		Swalling Construction	U.S. EPA (ATRAR)
	LP-127-029		Waste Product Questionnaire and Invoice	July 3 2002	Correspondence	Emerald Alaska	Swalling Construction	U.S. EPA (ATRAR)
	LP-127-030		Request for Resubmittal and Verification of 2001 BRS GM Form Pages	May 9 2002	Correspondence	U.S. EPA	Swalling Construction	U.S. EPA (ATRAR)
	LP-127-031		Notice of Violation	June 17 2002	Correspondence	U.S. EPA	Swalling Construction	U.S. EPA (ATRAR)
	LP-127-032		Notice of Violation	July 2 2002	Correspondence	Swalling Construction	U.S. EPA	U.S. EPA (ATRAR)
	LP-127-033		Paperwork for Reporting Purposes	December 5 2001	Correspondence	U.S. EPA	Swalling Construction	U.S. EPA (ATRAR)
	LP-127-034		EPA Hazardous Waste Identification Number	December 5 2001	Correspondence	U.S. EPA	Swalling Construction	U.S. EPA (ATRAR)
	LP-127-035		Forms Required by EPA for 2001 Biennial Report	February 27 2002	Correspondence	Energy Recovery Services	Swalling Construction	U.S. EPA (ATRAR)

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RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
			Document Description					
	LP-127-036		Certificate of Disposal and Detailed Report	October 21 2002	Correspondence	Safety-Kleen	Swalling Construction	U.S. EPA (ATRAR)
	LP-127-037		Notification of Waste Acceptance and Invoice	July 29 2002	Correspondence		Swalling Construction	U.S. EPA (ATRAR)
	LP-127-038		Invoice and Attached documentation	July 24 2003	Correspondence	Emerald Alaska	Swalling Construction	U.S. EPA (ATRAR)
	LP-127-039		Invoice	September 24 2001	Correspondence	Energy Recovery Services	Swalling Construction	U.S. EPA (ATRAR)
	LP-127-040		Conditional Approval of Work Plan "Remedial Action Feasibility Study and Work Plan"	May 27 2003	Correspondence	State of Alaska	Shannon & Wilson	U.S. EPA (ATRAR)
	LP-127-041		Remedial Action Feasibility Study and Work Plan	September 27 2002	Reports/Work Plans	Shannon & Wilson	ADEC	U.S. EPA (ATRAR)
	LP-127-042		Notice of Violation	October 9 2002	Correspondence	U.S. EPA	Swalling Construction	U.S. EPA (ATRAR)
	LP-127-043		Incorrect EPA Identification Number	October 21 2002	Correspondence	U.S. EPA	Swalling Construction	U.S. EPA (ATRAR)
	LP-127-044		Notification of Responsible Party: PCB Contamination	September 21 1990	Correspondence	Burr, Pease & Kurtz	Westinghouse Electric	U.S. EPA (ATRAR)
	LP-127-045		Items of Concern in the Remedial Action Report	July 19 1993	Correspondence	ADEC	Westinghouse Electric	U.S. EPA (ATRAR)
	LP-127-046		Contamination Assessment Quality Assurance / Quality Control Plan	September 16 1990	Reports/Work Plans	Environmental Services Ltd	Harold & Mary Lou Wirum	U.S. EPA (ATRAR)
	LP-127-047		Phone Conversation Record RE: Wirum Property Laboratory Analysis	August 10 1990	Correspondence	ADEC	Environmental Services Ltd	U.S. EPA (ATRAR)
	LP-127-048		Wirum Property	October 4 1990	Correspondence	U.S. EPA	U.S. EPA	U.S. EPA (ATRAR)
LP-128 321 E. Ship Creek Avenue								
	No Documents							
LP-129 221 Ship Creek Avenue								
	No Documents							
LP-130 1415 Spar Road								
	LP-130-001		Alaska UST Decommissioning Notice	October 4 1990	Permits/Applications/Forms	ADEC		Hart Crowser
	LP-130-002		ADEC Site Assessment Report for Underground Storage Tanks	October 1990	Reports/Work Plans	ADEC		Hart Crowser
	LP-130-003		Post Closure Notice	October 1990	Permits/Applications/Forms	ADEC		Hart Crowser
	LP-130-004		Closure Report for 1000 gallon gasoline UST	November 21 1990	Correspondence	Environmental Services	ADEC	Hart Crowser
	LP-130-005		Summary of Site & SWMUs		Reports/Work Plans			Hart Crowser
	LP-130-006		Alaska UST Facility Summary Report	May 17 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-130-007		Map Findings Plaschem Supply		Technical Data			Hart Crowser
	LP-130-008		Electronic Files -- Miscellaneous Documents					Hart Crowser
LP-131 568 W. Whitney Road								Condensed Summary
	LP-131-001		Report Soil Baseline Sampling at the Former Eastern Electric Building	December 22 1995	Reports/Work Plans	Dames & Moore	JCK Properties	Hart Crowser
	LP-131-002		Soil Baseline Sampling Report	January 12 1996	Correspondence	Lenore Clinton	ADEC	Hart Crowser
	LP-131-003		Soil Sampling Results	November 26 1996	Reports/Work Plans	Hart Crowser	Eastern Electric Apparatus Repair Co.	Hart Crowser
	LP-131-004		File Review & Request for Corrective Action	May 30 1997	Correspondence	Eastern Electric	Division of Spill Prevention & Response	Hart Crowser
	LP-131-006		Contaminated Property Concerning Soil Baseline Sampling Report	February 26 1996	Correspondence	ADEC	Lenore Clinton	Hart Crowser
	LP-131-007		File Review & Request for Corrective Action	April 11 1997	Correspondence	ADEC	Eastern Electric Apparatus Repair Co.	Hart Crowser
	LP-131-008		File Review & Request for Corrective Action	May 27 1997	Correspondence	Hart Crowser	Eastern Electric Apparatus Repair Co.	Hart Crowser
	LP-131-009		Hazardous Site Ranking Form	March 4 1997	Permits/Applications/Forms			Hart Crowser
	LP-131-010		ADEC Contaminated Sites Database Site Report for Eastern Electric	May 18 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-131-011		Map Findings Eastern Electric		Technical Data			Hart Crowser
	LP-131-012		Summary of Site & SWMUs		Reports/Work Plans			Hart Crowser

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Document Description								
RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
	LP-131-013		Miscellaneous Correspondence (1996 - 1998)		Correspondence			Hart Crowser
	LP-131-014		Work Plan for Additional Soil Sample Collection	September 6 1996	Reports/Work Plans	Hart Crowser	ADEC	Hart Crowser
	LP-131-015		Site Photos		Maps/Drawings/Photos	ARRC		ARRC
LP-132 1301 Whitney Road								
	LP-132-001		April and May 1993 Groundwater Quality Monitoring	May 14 1993	Reports/Work Plans	Shannon & Wilson	Development Managers	Hart Crowser
	LP-132-002		Status Report	September 8 1994	Reports/Work Plans	Shannon & Wilson	Development Managers	Hart Crowser
	LP-132-003		Monitoring Well Sampling	March 31 1998	Reports/Work Plans	Shannon & Wilson	Development Managers	Hart Crowser
	LP-132-004		Soil and Groundwater Sampling	September 7 2001	Reports/Work Plans	Shannon & Wilson	Development Managers	Hart Crowser
	LP-132-005		Alaska UST Facility Summary Report - Whitney Road Warehouse	May 20 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-132-006		Map Findings Whitney Road Warehouse		Technical Data			Hart Crowser
	LP-132-007		Summary of Site & SWMUs		Reports/Work Plans			Hart Crowser
	LP-132-008		Citizen Complaint		Permits/Applications/Forms	ADEC		Hart Crowser
	LP-132-009		Oil & Hazardous Materials Incident Report Form	June 21 1991	Permits/Applications/Forms	ADEC		Hart Crowser
	LP-132-010		Meeting Request to Discuss Heating Oil Leak	September 23 1991	Correspondence	Locher Interests, LTD	ADEC	Hart Crowser
	LP-132-011		Oil & Hazardous Materials Incident Report Form	January 17 1992	Permits/Applications/Forms	ADEC		Hart Crowser
	LP-132-012		No Further Action / Site Closure Heating Oil Release	November 14 1994	Correspondence	ADEC	Suver Construction / Timberwolf Development	Hart Crowser
	LP-132-013		Soil and Groundwater Assessment	September 1991	Reports/Work Plans	Shannon & Wilson	Locher Interests, LTD	Hart Crowser
	LP-132-014		Phase II Petroleum Hydrocarbon and Groundwater Assessment	July 1992	Reports/Work Plans	Shannon & Wilson	Development Managers	Hart Crowser
	LP-132-015		Phase II Petroleum Hydrocarbon and Groundwater Assessment	August 1992	Reports/Work Plans	Shannon & Wilson	Development Managers	Hart Crowser
	LP-132-018		Confirmation of Last Groundwater Monitoring	April 29 1996	Correspondence	Development Managers	ADEC	Hart Crowser
	LP-132-019		Monitoring Well and Soil Stockpile Sampling	June 6 1996	Reports/Work Plans	Shannon & Wilson	Development Managers	Hart Crowser
	LP-132-020		PCB Sampling Inspection Report for Alaska Army National Guard and Prescott Equipment Company (LP-024)	July 21 1998	Correspondence	U.S. EPA	U.S. EPA	Hart Crowser
	LP-132-021		Work Plan for Soil and Groundwater Sampling	May 14 2001	Reports/Work Plans	Shannon & Wilson	ADEC	Hart Crowser
	LP-132-022		Monitoring Well Sampling	October 14 2003	Reports/Work Plans	Shannon & Wilson	Development Managers	Hart Crowser
	LP-132-023		Authorization to Send Copy of Reports to ADEC	December 21 1993	Correspondence	Shannon & Wilson	Development Managers	Hart Crowser
	LP-132-024		Request for No Further Action Letter	January 23 2004	Correspondence	Shannon & Wilson	ADEC	Hart Crowser
LP-133 150 N. Ingra Street								
	No Documents							
LP-134 1500 Post Road								Condensed Summary
	LP-134-001		Underground Storage Tank Site Assessment	November 1992	Reports/Work Plans	Terrasat	C. R. Lewis Co.	Hart Crowser
	LP-134-002		Monitoring Well Installation, Water Sampling and Release Investigation	June 1996	Reports/Work Plans	Terrasat	C. R. Lewis Co.	Hart Crowser
	LP-134-003		Groundwater Sampling Conducted on April 18, 1997 (Duplicate of LP-085-004 -- Data Entered in LP-134)	May 1 1997	Reports/Work Plans	Terrasat	C. R. Lewis Co.	Hart Crowser
	LP-134-004		Addendum to Monitoring Well Installation, Water Sampling and Release Investigation Report, June 1996	May 16 1997	Reports/Work Plans	Terrasat	C. R. Lewis Co.	Hart Crowser
	LP-134-005		Notification of Intent to Cost Recover	November 20 1997	Correspondence	Storage Tank Program	Trident Seafoods	Hart Crowser
	LP-134-006		Phase I Reports - C.R. Lewis Lease Property	July 2 1998	Correspondence	ARRC	C. R. Lewis Co.	Hart Crowser
	LP-134-007		Request for Continuation Funding for C.R. Lewis Co.	September 28 1998	Correspondence	Terrasat	Underground Storage Tank Financial Assistance Program	Hart Crowser
	LP-134-008		Final FY 2003 Priority Ranking Lists for UST Cleanup Grants	July 2 2002	Correspondence	ADEC	C. R. Lewis Co.	Hart Crowser
	LP-134-009		Alaska UST Leaking UST Site Status and Correspondence Report - 339 Reckey	May 19 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-134-010		Alaska UST Leaking UST Site Status and Correspondence Report - 333 Reckey	May 19 2004	Reports/Work Plans	ADEC		Hart Crowser

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RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
			Document Description					
	LP-134-011		Alaska UST Facility Summary Report - C.R. Lewis Co.	May 18 2004	Reports/Work Plans	ADEC		Hart Crowser
	LP-134-012		Sampling Work Plan	April 2 1997	Reports/Work Plans	Terrasat	ADEC	Hart Crowser
	LP-134-013		Analytical Results	October 19 1992	Lab Reports	Analytica	Terrasat	Hart Crowser
	LP-134-014		Lab Results	July 27 1998	Lab Reports	Columbia Analytical Services	ARRC	Hart Crowser
	LP-134-015		Notice of Release	November 10 1992	Correspondence	ADEC	C.R. Lewis Co.	Hart Crowser
	LP-134-016		Corrective Action & Release Investigation Work Plan	April 1993	Reports/Work Plans	Terrasat	C.R. Lewis Co.	Hart Crowser
	LP-134-017		Request for Approval of Stockpile Disposal at Municipal Landfill	July 28 1993	Correspondence	Terrasat	ADEC	Hart Crowser
	LP-134-019		Work Plan for C.R. Lewis	October 7 1997	Correspondence	Terrasat	ADEC	Hart Crowser
	LP-134-020		Findings from Groundwater Sampling	May 1 1997	Reports/Work Plans	Terrasat	C.R. Lewis Co.	Hart Crowser
	LP-134-021		Remediation Design Proposal Post Road Properties	May 6 1997	Correspondence	Terrasat	ADEC	Hart Crowser
	LP-134-022		Remediation Design Proposal Approval for C.R. Lewis	May 12 1997	Correspondence	Terrasat	ADEC	Hart Crowser
	LP-134-023		Revised Work Plan for C.R. Lewis	November 17 1997	Correspondence	Terrasat	ADEC	Hart Crowser
	LP-134-024		Request for Continuation Funding for C.R. Lewis Co.	December 9 1997	Correspondence	Terrasat	FAES	Hart Crowser
	LP-134-025		Request for Continuation Funding for C.R. Lewis Co.	October 9 1998	Correspondence	ADEC	Terrasat	Hart Crowser
	LP-134-026		Status Report for C.R. Lewis	November 3 1998	Reports/Work Plans	Terrasat	ADEC	Hart Crowser
	LP-134-027		Appendix No. 2 to Grant No. 15143221	June 27 1997	Reports/Work Plans	ADEC		Hart Crowser
	LP-134-028		Miscellaneous Correspondence					Hart Crowser
LP-135 601-655 E. Ship Creek Avenue								
	LP-135-001		Map Findings United Technologies, Otis Elevator & Phillips Alaska Inc.		Technical Data			Hart Crowser
LP-136 2600 Railroad Avenue								
	No Documents							
LP-137 1048 Whitney Road								Condensed Summary
	LP-137-001		UST Assessment Report	December 1991	Reports/Work Plans	Northern Test Lab	Mammoth Trucking	Hart Crowser
	LP-137-002		Diesel/Gasoline UST Contaminated Soils Thermal Remediation Project Report	December 7 1992	Reports/Work Plans	Environmental Systems, Inc.	ARRC	Hart Crowser
	LP-137-003		Phase I and II Site Assessment Report	September 1994	Reports/Work Plans	EMCON Alaska, Inc.	Laidlaw Transit, Inc.	Hart Crowser
	LP-137-004		Release Investigation Work Plan	July 1998	Reports/Work Plans	CH2M Hill	ARRC	Hart Crowser
	LP-137-005		Search for Wells at Mammoth Site and Groundwater Measurements	July 17 1998	Correspondence	Rob Crotty, CH2M Hill	Susan Schrader, ARRC	Hart Crowser
	LP-137-006		Conditional Approval Letter of 10/23/98 for the revised Mammoth Release Investigation Work Plan	November 5 1998	Correspondence	Robert Weimer, ADEC	Karen Morrissey, ARRC	Hart Crowser
	LP-137-007		RE: Mammoth Drilling Concerns	November 9 1998	Correspondence	Susan Schrader, ARRC	Robert Weimer, ADEC	Hart Crowser
	LP-137-008		RE: Depth of Borings and Monitoring Wells for the Mammoth Release Investigation	November 13 1998	Correspondence	Robert Weimer, ADEC	Susan Schrader, ARRC	Hart Crowser
	LP-137-009		Boring Logs	January 21 1999	Technical Data	Thor, CH2M Hill	Susan Schrader, ARRC	Hart Crowser
	LP-137-010		Request for Groundwater Monitoring for the Former Mammoth Trucking site	August 6 1999	Correspondence	Robert Weimer, ADEC	Susan Schrader, ARRC	Hart Crowser
	LP-137-011		Contaminated Sites Plan - Dunbar Siding & Mammoth Trucking	August 10 1999	Correspondence	Ernie Piper, ARRC	Jim Frechione, ADEC	Hart Crowser
	LP-137-012		Mammoth Groundwater Results	October 1 1999	Correspondence	Christine Hampton, CH2M Hill	Susan Schrader, ARRC	Hart Crowser
	LP-137-013		Mammoth Groundwater Results	October 28 1999	Correspondence	Christine Hampton, CH2M Hill	Susan Schrader, ARRC	Hart Crowser
	LP-137-014		Survey Report Hazardous Building Materials	November 9 2001	Reports/Work Plans	Dean McKenzie, Alaska West Express	James Kubitz, ARRC	Hart Crowser
	LP-137-015		Copy of Geotechnical Investigation Report Borehole & Standpipe Alaska West Property	April 15 2002	Correspondence	Unwin Scheben Korynta Huettl (USKH)	Tom Brooks, ARRC	Hart Crowser
	LP-137-018		Map Findings Mammoth Trucking / Laidlaw Transit		Technical Data			Hart Crowser

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	LP-137-019		Request for Release Investigation Mammoth of Alaska	August 23 1993	Correspondence	Dave Hanneman, ADEC	Dale Nelson, ARRC	Hart Crowser
	LP-137-020		Thermal Remediation of Mammoth's Contaminated Soil	November 30 1992	Correspondence	Dale Nelson, ARRC	Gwen Burno, Real Estate Specialist	Hart Crowser
	LP-137-021		Conditional Approval of Revised Mammoth Release Investigation Workplan	October 23 1998	Correspondence	Robert Weimer, ADEC	Susan Schrader, ARRC	Hart Crowser
	LP-137-022		Request for Groundwater Monitoring and Release Investigation Former Mammoth Trucking	June 2 1998	Correspondence	Robert Weimer, ADEC	Susan Schrader, ARRC	Hart Crowser
	LP-137-023		Notification of Intent to Cost Recover, Owner ID #745	November 20 1997	Correspondence	James Hayden, ADEC	Mammoth of Alaska	Hart Crowser
	LP-137-024		Conditional Approval, Revised Mammoth Release Investigation Work Plan Spill No. 90210028201	November 4 1998	Correspondence	Karen Morrissey, ARRC	Robert Weimer, ADEC	Hart Crowser
	LP-137-025		Lab Reports - Groundwater Wells / Laidlaw	December 17 1998	Lab Report	Columbia Analytical	Susan Schrader, ARRC	Hart Crowser
	LP-137-026		Lab Reports - Soil Samples / Laidlaw	December 15 1998	Lab Report	Columbia Analytical	Susan Schrader, ARRC	Hart Crowser
	LP-137-027		Change of Operation Site to Mammoth Trucking	November 17 1992	Correspondence	R. Cox et al	Dale Nelson, ARRC	Hart Crowser
	LP-137-028		Amendment to Mammoth Work Plan Sections 2, 3 and 4	October 15 1998	Reports/Work Plans	CH2M Hill	ARRC	Hart Crowser
	LP-137-029		Amendment to Mammoth Work Plan Sections 2, 3 and 4	October 19 1998	Reports/Work Plans	CH2M Hill	ARRC	Hart Crowser
	LP-137-030		Contaminated Site Data and Actions for 90210028201 (Site Report)	October 1992	Technical Data	ADEC	ARRC	Hart Crowser
	LP-137-031		Electronic Files -- Miscellaneous Documents					Hart Crowser
	LP-137-032		Oil & Hazardous Materials Incident Report Form	October 9 1990	Permits/Applications/Forms	ADEC		Hart Crowser
	LP-137-033		Contaminated Site Data Entry Form	October 15 1990	Permits/Applications/Forms			Hart Crowser
	LP-137-034		Trust Fund Eligibility Check List	October 16 1990	Permits/Applications/Forms			Hart Crowser
	LP-137-035		Sampling Procedures for Site Closure and Soil Disposal at Mammoth Trucking		Reports/Work Plans			Hart Crowser
	LP-137-036		Alaska Hazard Ranking Model	April 1 1991	Permits/Applications/Forms			Hart Crowser
	LP-137-037		Contaminated Site Database Ranking Data Entry Form	April 1 1991	Permits/Applications/Forms			Hart Crowser
	LP-137-038		Position Paper - Elimination of Contaminant Cell Materials		Reports/Work Plans	Bio-Tech Services		Hart Crowser
	LP-137-039		Mammoth Trucking Site - Brief on the Site-Specific Plan		Reports/Work Plans			Hart Crowser
	LP-137-040		Mammoth Trucking UST Contaminated Soils Thermal Remediation Proj	January 4 1993	Reports/Work Plans	Environmental Systems	ARRC	Hart Crowser
	LP-137-041		Tables -- Summary of Soil and Groundwater Analytical Results	November 24 1997	Technical Data	Laidlaw		Hart Crowser
	LP-137-042		Site Figures and Maps		Maps/Drawings/Photos			Hart Crowser
	LP-137-043		Former Mammoth Trucking Release Investigation	February 1999	Reports/Work Plans	CH2M Hill	ARRC	Hart Crowser
	LP-137-044		Lab Data	July 1998	Lab Report	Columbia Analytical	ARRC	Hart Crowser
	LP-137-045		Former Mammoth Trucking Facility Release Investigation Work Plan	July 1998	Reports/Work Plans	CH2M Hill	ARRC	Hart Crowser
	LP-137-046		Miscellaneous Correspondence (1990 - 1998)					Hart Crowser
	LP-137-047		Whitney Road Floating Product Investigation Report of Findings (Document is located in LP-991-034)	October 1999	Reports/Work Plans	CH2M Hill	ARRC	U.S. EPA (ATRAR)
LP-138 ROW								
	LP-138-001		Chromatographic Interpretation - Anchorage Terminal		Reports/Work Plans	Kent & Sullivan		Hart Crowser
LP-139 West of 601 Whitney Road.	No Documents							

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LP-991 932 Whitney Road								
	LP-991-001		Figure 2-4 Latitudinal Hydrogeologic Cross Section of Ship Creek Area	March 1998	Maps/Drawings/Photos			Hart Crowser
	LP-991-002		Figure 2-3 Longitudinal Hydrogeologic Cross Section of Ship Creek and Aquifer Characteristics	March 1998	Maps/Drawings/Photos			Hart Crowser
	LP-991-003		Boring Log from Lower Ship Creek Basin (Blank Form)		Permits/Applications/Forms			Hart Crowser
	LP-991-004	SC-004	Arctic Cooperage Phase II Site Assessment (Duplicate of LP-991-027)	September 1996	Reports/Work Plans	ENSR	ARRC	Hart Crowser
	LP-991-005		Analytical Results		Lab Results			Hart Crowser
	LP-991-006		Groundwater Monitoring Information		Reports/Work Plans			Hart Crowser
	LP-991-007		Site Maps, Figures, Photos		Maps/Drawings/Photos			Hart Crowser
	LP-991-008		Table -- Summary of Analytical Results	June 6 2001	Lab Results			Hart Crowser
	LP-991-009		Table -- Results for Soil Samples		Lab Results			Hart Crowser
	LP-991-010		Table -- Results for Groundwater Samples		Lab Results			Hart Crowser
	LP-991-011		ADEC Status & Correspondence Storage Tank Program UST Access Database	November 13 1997	Reports/Work Plans	ADEC		Hart Crowser
	LP-991-012		Hazardous Site Ranking Form	June 28 1996	Permits/Applications/Forms			Hart Crowser
	LP-991-013		Contaminated Sites Database New Site Form		Permits/Applications/Forms			Hart Crowser
	LP-991-014		Elmendorf Air Force Base Spill Status	November 6 1997	Reports/Work Plans			Hart Crowser
	LP-991-015		Arctic Cooperage Drainage Ditch Oil Containment & Recovery Plan		Reports/Work Plans			Hart Crowser
	LP-991-016		Watershed Activity Checklist & Report		Reports/Work Plans	ADEC		Hart Crowser
	LP-991-017		Amendment 1 to Arctic Cooperage Remedial Investigation Work Plan	1997	Reports/Work Plans	ARRC		Hart Crowser
	LP-991-018		Boring Logs & Well Completion Diagrams	August 1997	Permits/Applications/Forms	CH2MHill	ADEC	Hart Crowser
	LP-991-019		Arctic Cooperage Site Discussion of Findings & Conceptual Site Model	1999	Reports/Work Plans	CH2MHill	ADEC	Hart Crowser
	LP-991-020		Incident Action Plan Arctic Cooperage / Alaska Railroad Reserve Site	November 7 1997	Reports/Work Plans	ADEC		Hart Crowser
	LP-991-021		Outline for Discussion Purposes Monitoring & Corrective Action Work Plan for Arctic Cooperage	November 7 1997	Correspondence			Hart Crowser
	LP-991-022		Arctic Cooperage Process UST Removal & Investigation	March 1996	Reports/Work Plans	ENSR	ARRC	Hart Crowser
	LP-991-023		Arctic Cooperage Phase II Site Assessment Work Plan	April 1996	Reports/Work Plans	ENSR	ARRC	Hart Crowser
	LP-991-024		Analytical Report for Gasoline UST, Arctic Cooperage	June 21 1996	Reports/Work Plans	ARRC		Hart Crowser
	LP-991-025		Arctic Cooperage Gasoline UST Removal & Investigation Letter Report	August 1996	Reports/Work Plans	ARRC		Hart Crowser
	LP-991-026		Summary of Information on the Natural Occurrence of Select Metals In Surface Soil & Stream Sediments	September 20 1996	Reports/Work Plans	CH2MHill		Hart Crowser
	LP-991-027		Arctic Cooperage Phase II Site Assessment (Duplicate of LP-991-004)	September 1996	Reports/Work Plans	ENSR	ARRC	Hart Crowser
	LP-991-028		Comments on ADEC Review of Arctic Cooperate Phase II Site Assessment	November 12 1996	Reports/Work Plans	ARRC	ADEC	Hart Crowser
	LP-991-029		Arctic Cooperage Corrective Action Plan	April 1997	Reports/Work Plans	CH2MHill	ARRC	Hart Crowser
	LP-991-030		Arctic Cooperage Remedial Investigation Work Plan	June 1997	Reports/Work Plans	CH2MHill	ARRC	Hart Crowser
	LP-991-031		Arctic Cooperage Report of Findings	March 1998	Reports/Work Plans	CH2MHill	ARRC	Hart Crowser
	LP-991-032		Arctic Cooperage Conceptual Site Model Request for Extension of Corrective Action Plan Submittal Date	February 25 1999	Correspondence	ARRC	ADEC	Hart Crowser
	LP-991-033		Whitney Road Product Plume Investigation Work Plan	April 1999	Reports/Work Plans	CH2MHill	ARRC	Hart Crowser
	LP-991-034		Whitney Road Floating Product Investigation Report of Findings	October 1999	Reports/Work Plans	CH2MHill	ARRC	Hart Crowser
	LP-991-035		Arctic Cooperage Sampling Plan & Soil Removal Work Plan	August 2000	Reports/Work Plans	Montgomery Watson	ARRC	Hart Crowser
	LP-991-036		Arctic Cooperage Field Sampling 2000 Summary Report	December 2000	Reports/Work Plans	Montgomery Watson	ARRC	Hart Crowser
	LP-991-037		Arctic Cooperage Stockpile Results	June 6 2001	Reports/Work Plans	Montgomery Watson	ARRC	Hart Crowser
	LP-991-038		ADEC Contaminated Site Data and Action Reports		Reports/Work Plans	ADEC		Hart Crowser
	LP-991-039		Potential Hazardous Waste Site Identification Form	October 4 1988	Permits/Applications/Forms	U.S. EPA		Hart Crowser
	LP-991-040		Miscellaneous Correspondence (1997 - 2003)		Correspondence			Hart Crowser
	LP-991-041		Situation Report (EAFB - Aero Club)	November 18 1997	Reports/Work Plans	ADEC		Hart Crowser
	LP-991-042		Soil Disposal from Tesoro Arctic Cooperage Stockpile	October 15 2003	Correspondence	Alaska Soil Recycling	ARRC	Hart Crowser
	LP-991-043		Information Related to Groundwater Monitoring Results	December 30 1997	Correspondence	ADEC	U.S. EPA	U.S. EPA (ATRAR)
	LP-991-044		Monitoring Data	December 30 1997	Lab Results			U.S. EPA (ATRAR)
	LP-991-045		Well Monitoring Results	January 6 1998	Lab Results	CH2MHill	ARRC	U.S. EPA (ATRAR)
	LP-991-046		Groundwater Assessment Report	August 2003	Reports/Work Plans	Hart Crowser	ARRC	U.S. EPA (ATRAR)

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LP-992 1522 Anchorage Por ttoad (Outside of reserve)								
	LP-992-001		Hazard Study for the Bulk POL Facilities in the Port of Anchorage, Alaska (Document is located in LP-003-012)	August 2002	Reports/Work Plans	Golder Associates	Municipality of Anchorage	Hart Crowser
	LP-992-002		Port of Anchorage Drainage Study, Final Report (Document is located in LP-003-014)	March 1997	Reports/Work Plans	CH2MHill	Municipality of Anchorage	Hart Crowser
	LP-992-003		Port of Anchorage Drainage Study, Final Report - Technical Appendices (Document is located in LP-003-015)	March 1997	Reports/Work Plans	CH2MHill	Municipality of Anchorage	Hart Crowser
	LP-992-004		ADEC - Contaminated Sites Database Site Report for Tesoro #1 Port of Anchorage	May 20 2004	Reports/Work Plans	ADEC		Hart Crowser
LP-993 All Sites								
	LP-993-001		Transmittal of ADEC and ARRC Site Records (8 different transmittal sets and dates)		Correspondence	ARRC	U.S. EPA	Hart Crowser
	LP-993-002		Alaska Railroad Transfer Act ("ARTA") United States Code Title 45 Chapter 21	July 2004	Reports/Work Plans		ARRC	ARRC
	LP-993-003		Agreement between Alaska Railroad Corporation and Administrator of the Federal Railroad Administration	November 28 1990	Legal Document	ARRC	ARRC	ARRC
LP-994 Anchorage Terminal Reserve								
	LP-994-001	SC-241	RCRA Facility Assessment Report - Leased Properties	July 16 2002	Reports/Work Plans	Booz Allen Hamilton	U.S. EPA	Hart Crowser
	LP-994-002		RCRA Inspection Report	January 15 1988	Reports/Work Plans	ADEC	ARRC	U.S. EPA (ATRAR)
	LP-994-003		RCRIS Turnaround Document	September 22 1993	Reports/Work Plans	ADEC	U.S. EPA	U.S. EPA (ATRAR)
	LP-994-004		Administrative Order on Consent	May 17 2004	Reports/Work Plans	U.S. EPA	ARRC	U.S. EPA (ATRAR)
	LP-994-005		Administrative Order on Consent	June 29 2004	Reports/Work Plans	U.S. EPA	ARRC	U.S. EPA (ATRAR)
	LP-994-006		Statement of Work Administrative Order on Consent	June 29 2004	Reports/Work Plans	U.S. EPA	ARRC	U.S. EPA (ATRAR)
	LP-994-007		EPA Responses to Comments Administrative Order on Consent	June 30 2004	Reports/Work Plans	U.S. EPA	ARRC	U.S. EPA (ATRAR)
	LP-994-008		Site Figures and Drawings		Maps/Drawings/Photos			U.S. EPA (ATRAR)
	LP-994-009		Site Figures and Drawings		Maps/Drawings/Photos			U.S. EPA (ATRAR)
	LP-994-010		Analytical Results with attached materials	September 1986	Reports/Work Plans			U.S. EPA (ATRAR)
	LP-994-011		Public Notices and News Articles		Publications			U.S. EPA (ATRAR)
	LP-994-012		Miscellaneous Correspondence (1980 - 2004)		Correspondence			U.S. EPA (ATRAR)
	LP-994-013		Letter Regarding Railroad Facilities in the Anchorage Yard	March 7 1985	Correspondence	State of Alaska	ARRC	U.S. EPA (ATRAR)
	LP-994-014		Notice of Violation	September 7 1982	Legal Document	ADEC	ARRC	U.S. EPA (ATRAR)
	LP-994-015		Site Figures and Drawings		Maps/Drawings/Photos			U.S. EPA (ATRAR)
	LP-994-016		Response to USEPA Information Requested Dated May 15, 1995	August 3 1995	Correspondence	ARRC	U.S. EPA	U.S. EPA (ATRAR)
	LP-994-017		Potential Hazardous Waste Site Preliminary Assessment	July 13 1984	Reports/Work Plans			U.S. EPA (ATRAR)
	LP-994-018		Potential Hazardous Waste Site Identification and Preliminary Assessment	July 1980	Permits/Applications/Forms	U.S. EPA		U.S. EPA (ATRAR)
	LP-994-019		Site Map		Maps/Drawings/Photos			U.S. EPA (ATRAR)
	LP-994-020		8880 EDR Study Area Boundary Map (from electronic file)					Electronic file
	LP-994-021		8880 EDR Agency Database Search Report (from electronic file)					Electronic file
	LP-994-022		Contamination on Properties Owned by Alaska Railroad	May 12 2004	Correspondence	U.S. EPA	Honorable Ted Stevens U.S. Senate	U.S. EPA (ATRAR)
	LP-994-023		Alaska Railroad Site Investigation	May 28 2004	Correspondence	U.S. EPA	ADEC	U.S. EPA (ATRAR)
	LP-994-024		Proposed CERCLA/RCRA Administrative Order on Consent	May 14 2004	Correspondence	ARRC	U.S. EPA	U.S. EPA (ATRAR)
	LP-994-025		Proposed CERCLA/RCRA Administrative Order on Consent	April 12 2004	Correspondence	ARRC	U.S. EPA	U.S. EPA (ATRAR)
	LP-994-026		Proposed CERCLA/RCRA Administrative Order on Consent	May 11 2004	Correspondence	U.S. EPA	ARRC	U.S. EPA (ATRAR)
	LP-994-027		Notice of Violation and Warning	May 12 1983	Correspondence	U.S. EPA	ARRC	U.S. EPA (ATRAR)
	LP-994-028		Notice of Violation and Warning	October 18 1983	Correspondence	U.S. EPA	ARRC	U.S. EPA (ATRAR)
	LP-994-029		Documentation of Environmental Indicator Determination	November 18 1999	Permits/Applications/Forms	U.S. EPA	ARRC	U.S. EPA (ATRAR)
	LP-994-030		Statement of Work Administrative Order on Consent	May 17 2004	Reports/Work Plans	U.S. EPA	ARRC	U.S. EPA (ATRAR)
	LP-994-031		RCRA Facility Assessment Suggestions for Further Action - Leased Properties	July 16 2002	Reports/Work Plans	ARRC	U.S. EPA	U.S. EPA (ATRAR)

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RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
			Document Description					
	LP-994-032		Transmittal of Management of Investigation-Derived Wastes During Site Inspections (Report was not attached)	December 4 1997	Correspondence	U.S. EPA	ARRC	U.S. EPA (ATRAR)
	LP-994-033		Facility Study and Report (Report was not attached)	February 26 1985	Correspondence	Division of Environmental Quality	ARRC	U.S. EPA (ATRAR)
	LP-994-034		ADEC Contaminated Sites Databases - Comprehensive Site Specific Reports on Various Sites		Reports/Work Plans	ADEC		U.S. EPA (ATRAR)
	LP-994-035		Site Maps, Figures and Schematics		Maps/Drawings/Photos			U.S. EPA (ATRAR)
	LP-994-036		RCRA Generator Inspection Form	June 15 1983	Permits/Applications/Forms			U.S. EPA (ATRAR)
	LP-994-037		Division of Sport Fish Harvest Survey Information	September 25 2003	Reports/Work Plans			U.S. EPA (ATRAR)
	LP-994-038		Contamination Concerns at Various Property Sites	March 4 2004	Correspondence	U. S. Senate	U.S. EPA	U.S. EPA (ATRAR)
	LP-994-039		Revised Site Inspection Report (Report was not attached)	January 21 1986	Correspondence	Ecology and Environment	U.S. EPA	U.S. EPA (ATRAR)
	LP-994-040		1985 Investigation at Alaska Railroad Facility (Report was not attached)	June 16 1986	Correspondence	U.S. EPA	ARRC	U.S. EPA (ATRAR)
	LP-994-041		Remedial Site Assessment Decision	January 1986	Correspondence	U.S. EPA	ARRC	U.S. EPA (ATRAR)
	LP-994-043		Procurement Request	March 13 1982	Permits/Applications/Forms			U.S. EPA (ATRAR)
	LP-994-044		Region 10 Site Inspection Report Review	January 29 1986	Permits/Applications/Forms	U.S. EPA		U.S. EPA (ATRAR)
	LP-994-045		S & A Review	December 19 1980	Permits/Applications/Forms			U.S. EPA (ATRAR)
	LP-994-046		Hazardous Waste Sites Evaluation of Section 311 Cleanup Requirements	December 17 1980	Permits/Applications/Forms	U.S. EPA		U.S. EPA (ATRAR)
	LP-994-047		Notification of Hazardous Waste Activity	June 25 1987	Permits/Applications/Forms	U.S. EPA		U.S. EPA (ATRAR)
	LP-994-048		Lab Data	December 6 1985	Lab Results	Ecology and Environment		SECOR
	LP-994-049		Response to Original Letter, Notice of Violation and Warning	September 14 1983	Correspondence	ARRC	U.S. EPA	U.S. EPA
	LP-994-050		Review of Three Alaska Trip Reports by FIT	June 28 1985	Correspondence	U.S. EPA	U.S. EPA	U.S. EPA
	LP-994-051		Notice of Violation and Warning dated May 13, 1983	November 2 1983	Correspondence	ARRC	U.S. EPA	U.S. EPA
	LP-994-052		Sampling Workplan for Alaska Railroad	September 1985	Reports/Work Plans	Ecology and Environment	U.S. EPA	U.S. EPA
	LP-994-053		Evaporation Data	November 14 1985	Reports/Work Plans	University of Alaska	Ecology and Environ, Inc.	U.S. EPA
	LP-994-054		Facility Data Sheet	April 5 1985	Permits/Applications/Forms			U.S. EPA
	LP-994-055		Potential Hazardous Waste Site Tentative Disposition	November 1980	Permits/Applications/Forms	U.S. EPA		U.S. EPA
	LP-994-056		Surface Oiling Permit	May 3 1982	Permits/Applications/Forms	ADEC		U.S. EPA
	LP-994-057		File Review Checklist	April 15 1983	Permits/Applications/Forms			U.S. EPA
	LP-994-058		Verification of Site File Review	January 14 1985	Permits/Applications/Forms			U.S. EPA
	LP-994-059		Uniform Hazardous Waste Manifest	May 16 1985	Permits/Applications/Forms			U.S. EPA
	LP-994-060		Contact Report	January 13 1986	Reports/Work Plans	Ecology and Environment	Harding & Lawson	U.S. EPA
	LP-994-061		Figures - Work Sheets	December 6 1985	Permits/Applications/Forms			U.S. EPA
RY-065 Anchorage Rail Yard (Whitney Road)-421 West 1st Avenue, Anchorage, AK								
	RY-065-005		Closure Plan - Diesel Repair Shop	June 1993	Reports/Work Plans	Kennedy/Jenks Consultants	ARRC	ARRC
	RY-065-006		Final Closure Plan - Former Diesel Shop Storage Area	June 1994	Reports/Work Plans	Kennedy/Jenks Consultants	ARRC	ARRC
	RY-065-007		Public Education Program Work Plan (Requirements of RCRA)	July 1994	Reports/Work Plans	ARRC		ARRC
	RY-065-008		Public Education Program Work Plan (Requirements of RCRA)	Sep-94	Reports/Work Plans	ARRC		ARRC
	RY-065-009		Car Shop Air Room Storage Area Sampling Plan / Quality Assurance Project Plan (QAPP)	September 8 1994	Reports/Work Plans	ARRC		ARRC
	RY-065-010		Conam Construction Co. Final Environmental Inspection Report for the Port of Anchorage: Anchorage Jet Fuel Pipeline	April 5 1999	Reports/Work Plans	Oasis Environmental		ARRC
	RY-065-011		Newspaper Articles and News Release		Publication			ARRC
	RY-065-012		Notice of Legal Proceedings EPA Region 10 vs Alaska Railroad	February 4 1992	Correspondence	U.S. EPA	ARRC	ARRC
	RY-065-013		RCRA Compliance Report dated June 3, 1991	August 30 1991	Reports/Work Plans	ADEC	U.S. EPA	ARRC
	RY-065-014		Fuel Tank Disposal Records					ARRC
	RY-065-015		Final Report 1993 Boiler Plant Underground Storage Tank Removals & Site Characterization	October 1993	Reports/Work Plans	ENSR	ARRC	ARRC
	RY-065-016		Checklist for Underground Storage Tanks	June 1993	Technical Data	ENSR		ARRC
	RY-065-017		Checklist for Underground Storage Tanks	October 1991	Maps/Drawings/Photos			ARRC
	RY-065-018		Boiler Plant Photos		Maps/Drawings/Photos			ARRC
	RY-065-019		Fuel Tank Photos		Maps/Drawings/Photos			ARRC

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RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
	RY-065-020		Photos - Site Unknown		Maps/Drawings/Photos			ARRC
	RY-065-021		Photos - Site Unknown		Maps/Drawings/Photos			ARRC
	RY-065-022		Monitoring Stained Soil Removal from Alaska Railroad Fueling Rack	December 16 1993	Reports/Work Plans	Shannon & Wilson	ARRC	ARRC
	RY-065-023		Alaska Railroad Fuel Rack Laboratory Data	October 3 1994	Lab Report	Alaska Soil Recycling	ADEC	ARRC
	RY-065-024		Fuel, Oil Storage, & Refueling Area Table	April 8 2003	Technical Data			ARRC
	RY-065-025		Followup to Conversations RE: Spill No. 9321-1286-2	October 15 1993	Correspondence	ARRC	ADEC	ARRC
	RY-065-026		Trip Report Birchwood Alaska Communications System Storage Site Preliminary Assessment	August 1997	Reports/Work Plans	Ecology and Environment, Inc.	U.S. EPA	ARRC
	RY-065-027		Alaska Railroad Corporation Vegetation Management Research Project (Birchwood)	June 19 1997	Reports/Work Plans	Ecology and Environment, Inc.	ARRC	ARRC
	RY-065-028		Aerial Photos					ARRC
	RY-065-029		Site Maps - Response to EPA Question 14	July 16 1993	Maps/Drawings/Photos	ARRC		ARRC
	RY-065-030		Environmental Questionnaire	March 4 2004	Correspondence	ARRC		ARRC
	RY-065-031		Trip Report Anchorage AAA Gun Position No. 12 Preliminary Assessment	July 1997	Reports/Work Plans	Ecology and Environment, Inc.	U.S. EPA	ARRC
	RY-065-032		Trip Report Anchorage RR BN Cantonment Preliminary Assessment	August 15 1997	Reports/Work Plans	Ecology and Environment, Inc.	U.S. EPA	ARRC
	RY-065-033	SC-002	Site Inspection Report	January 1986	Reports/Work Plans	Ecology and Environment, Inc.	U.S. EPA	ARRC
	RY-065-035		Yard Office UST Lab Results	May 23 1997	Lab Report	Columbia Analytical Services	ARRC	ARRC
	RY-065-036		Warehouse UST Lab Results	May 23 1997	Lab Report	Columbia Analytical Services	ARRC	ARRC
	RY-065-037		RCRA Hazardous Waste Management Compliance Evaluation Inspection Report	June 1991	Reports/Work Plans	ADEC	ARRC	ARRC
	RY-065-038		RCRA Hazardous Waste Management Compliance Evaluation Inspection Report	May 1994	Reports/Work Plans	ADEC	ARRC	ARRC
	RY-065-039		Supplemental Response to RCRA Facility Assessment at ARRC	August 30 1994	Correspondence	ARRC	U.S. EPA	ARRC
	RY-065-040		Hazardous Waste Manifests	May 25 1994	Correspondence	ARRC	ADEC	ARRC
	RY-065-041		Photos - Site Unknown					ARRC
	RY-065-042		Oil Sample Analysis Report Marine Safety Office	March 1994	Reports/Work Plans	U.S. Coast Guard	ARRC	ARRC
	RY-065-043		Region 10 Facility Comments	September 6 2001	Correspondence	U.S. EPA		ARRC
	RY-065-045		RCRA Inspection Lab Reports	April 21 1992	Lab Report	Chemical & Geological Lab	ARRC	ARRC
	RY-065-046		RCRA Inspection Lab Reports	May 12 1992	Lab Report	Chemical & Geological Lab	ARRC	ARRC
	RY-065-047		RCRA Inspection Lab Reports	July 28 1992	Lab Report	Chemical & Geological Lab	ARRC	ARRC
	RY-065-048		RCRA Inspection Lab Reports	December 20 1993	Lab Report	Commercial Testing & Engineering Co.	ARRC	ARRC
	RY-065-049		RCRA Inspection Lab Reports	February 23 1994	Lab Report	Commercial Testing & Engineering Co.	ARRC	ARRC
	RY-065-050		RCRA Inspection Lab Reports	August 11 1994	Lab Report	Commercial Testing & Engineering Co.	ARRC	ARRC
	RY-065-051		RCRA Inspection Lab Reports	September 23 1994	Lab Report	Commercial Testing & Engineering Co.	ARRC	ARRC
	RY-065-052		RCRA Inspection Lab Reports	September 30 1994	Lab Report	Commercial Testing & Engineering Co.	ARRC	ARRC
	RY-065-053		Lab Reports	September 27 2001	Lab Report	Analytica Alaska, Inc.	ARRC	ARRC
	RY-065-054		Photos - Site Unknown	May 21 2004				ARRC
	RY-065-055		Notice of Violation	November 18 1994	Correspondence	ADEC	ARRC	ARRC
	RY-065-056		Site Assessment Results - Anchorage Yard Heating Oil Tanks	June 20 1997	Correspondence	ARRC	ADEC	ARRC
	RY-065-057		Warehouse and Yard Office Tank Site Closure Report	May 27 1999	Reports/Work Plans	ARRC	ADEC	ARRC
	RY-065-058		Response to 9/28/00 Notice of Violation	October 17 2000	Correspondence	ARRC	U.S. EPA	ARRC
	RY-065-059		Request for Information	February 10 2000	Correspondence	U.S. EPA	ARRC	ARRC
	RY-065-060		Response to Request for Information	November 22 1999	Correspondence	ARRC	U.S. EPA	ARRC
	RY-065-061		MSDS	November 30 1999	Correspondence	ARRC	U.S. EPA	ARRC
	RY-065-062		Compliance Assistance Site Visit Follow Up at ARRC	September 7 1999	Correspondence	ADEC	ARRC	ARRC

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			Document Description					
	RY-065-063		Comments and Corrections on RCRA Facility Assessment Report	February 18 1997	Correspondence	ARRC	U.S. EPA	ARRC
	RY-065-064		Information Request RCRA Facility Assessment	May 15 1995	Correspondence	U.S. EPA	ARRC	ARRC
	RY-065-065		Steam Rack Oil/Water Separator		Maps/Drawings/Photos	Rockford Sanitary Systems	ARRC	ARRC
	RY-065-066		Copies of Training Records Requested	May 11 2000	Correspondence	ARRC	U.S. EPA	ARRC
	RY-065-067		Presentation on Environmental Programs at ARRC	August 24 1994	Health & Safety	ARRC		ARRC
	RY-065-068		Proposal for Fuel Spill Remediation ARRC Fueling Area	October 21 1993	Correspondence	Hart Crowser	ARRC	ARRC
	RY-065-069		Photos - Anchorage Fuel Rack	October 13 1993	Maps/Drawings/Photos	ARRC	ADEC	ARRC
	RY-065-070		Oil & Hazardous Materials Incident Notification	October 13 1993			ARRC	ARRC
	RY-065-071		Duties & Responsibilities for Hostlers on ARRC		Health & Safety		Wilder Construction	ARRC
	RY-065-072		Fuel Stain Remediation	October 10 1994	Correspondence	Alaska Soil Recycling	ARRC	ARRC
	RY-065-073		Registration for Installation, Repair, Upgrade or Reconfiguration (Bluff Dig)	August 14 2001	Permits/Applications/Forms		ARRC	ARRC
	RY-065-074		Bluff Dig - North Ship Creek Rail Yard Expansion Groundwater Investigation Work Plan	December 2001	Reports/Work Plans	Montgomery Watson Harza	ARRC	ARRC
	RY-065-075		Bluff Dig - North Ship Creek Rail Yard Expansion & Tideland Fill Bunker-C Oil Clean Up	March 10 2003	Correspondence	ARRC	Wilder Construction	ARRC
	RY-065-076		Bluff Dig - Draft Tank Removal Work Plan	August 2001	Reports/Work Plans	Montgomery Watson Harza	ARRC	ARRC
	RY-065-077		Bluff Dig - Proposal for Tank Removal at Old Power Plant	July 23 2001	Correspondence	Montgomery Watson Harza	ARRC	ARRC
	RY-065-078		Bluff Dig - Quantitation Report	July 6 2001	Lab Report			ARRC
	RY-065-079		Bluff Dig - Lab Report	July 12 2001	Lab Report	Analytica Environmental	ARRC	ARRC
	RY-065-080		Bluff Dig - Disposal Records	May 27 2003	Lab Report	ADEC	ARRC	ARRC
	RY-065-081		Bluff Dig - ARRC 65% Design Meeting Minutes	September 23 2003	Meetings	ARRC		ARRC
	RY-065-084		Bluff Dig - Summary of Bluff Sample Results by ARRC (Table)		Meetings	ARRC		ARRC
	RY-065-085		Bluff Dig - Proposal Product and Water Sampling, Ship Creek Basin	July 10 2003	Correspondence	Hart Crowser	ARRC	ARRC
	RY-065-086		Bluff Dig - Lab Results for Gravel Pit	June 4 1998	Lab Report	Columbia Analytical Services	ARRC	ARRC
	RY-065-087		Bluff Dig - Lab Results Spernak / 1-02622-ASC	November 2 1998	Lab Report	Columbia Analytical Services	ARRC	ARRC
	RY-065-088		Bluff Dig - Lab Result Bluff Excavation / 1-02622-ASC	November 12 1999	Lab Report	Columbia Analytical Services	ARRC	ARRC
	RY-065-089		Bluff Dig - Lab Results	October 16 2001	Lab Report	Analytica Environmental	ARRC	ARRC
	RY-065-090		Bluff Dig - Lab Results	September 29 1999	Lab Report	CT&E Environmental	Shannon & Wilson	ARRC
	RY-065-091		Bluff Dig - Preliminary Geotechnical Evaluation of North Bluff of Ship Creek for Proposed Grading to Create a New Rail Siding	February 5 1996	Reports/Work Plans	Shannon & Wilson	ARRC	ARRC
	RY-065-092		Bluff Dig - Ship Creek Bluff Borrow Site Env. Assessment Review	March 7 1998	Reports/Work Plans	Shannon & Wilson	Flamingo Brothers	ARRC
	RY-065-093		Bluff Dig - Env. Site Assessment, Ship Creek Bluff Borrow Site	March 27 1998	Reports/Work Plans	Shannon & Wilson	Flamingo Brothers	ARRC
	RY-065-094		Bluff Dig - Followup to Shannon & Wilson Env. Site Assessment	September 28 1999	Correspondence	Flamingo Brothers	ARRC	ARRC
	RY-065-095		Bluff Dig - Borrow Site Borings B2 & B3	October 3 2001	Technical Data	Shannon & Wilson	ARRC	ARRC
	RY-065-096		Bluff Dig - North Ship Creek Rail Yard Expansion Groundwater Investigation Report	April 2002	Reports/Work Plans	Montgomery Watson Harza	ARRC	ARRC
	RY-065-097		Bluff Dig - Ship Creek Yard Expansion - Existing Conditions & Alternatives for USAF Seepage Collection System	April 25 2002	Reports/Work Plans	Montgomery Watson Harza	ARRC	ARRC
	RY-065-098		Bluff Dig - Bluff Gravel Reply	January 27 1998	Correspondence	ARRC	ARRC	ARRC
	RY-065-099		Bluff Dig - Bluff Gravel Reply	February 9 1998	Correspondence	ARRC	ARRC	ARRC
	RY-065-100		Bluff Dig - Lab Results Gravel Pit Samples	November 4 1998	Correspondence	ARRC	ARRC	ARRC
	RY-065-101		Bluff Dig - Ship Creek Bluff Data Review	March 12 1998	Correspondence	Columbia Analytical Services	ARRC	ARRC
	RY-065-102		Bluff Dig - Env. Assessment Summary, FBP License Area	March 23 1998	Correspondence	Flamingo Brothers	ARRC	ARRC
	RY-065-104		Bluff Dig - ADEC Tank Registration Forms for Old Bluff Power Plant	August 13 2001	Correspondence	Montgomery Watson Harza	ARRC	ARRC
	RY-065-105		Alaska Railroad General Code of Operating Rules	April 2 2000	Health & Safety	ARRC	ARRC	ARRC
	RY-065-106		Alaska Railroad Safety Manual	May 15 2001	Health & Safety	ARRC	ARRC	ARRC
	RY-065-107		Alaska Railroad Timetable No. 131	April 20 2003	Health & Safety	ARRC	ARRC	ARRC
	RY-065-108		Correspondence 1989 - 2004		Correspondence			ARRC
	RY-065-109		Soil Excavation and Exploration Assessment Report	January 2004	Reports/Work Plans	Hart Crowser	ARRC	Hart Crowser
	RY-065-110		Subsurface Investigation ARRC Operations Building	July 1992	Reports/Work Plans	DOWL Engineers	Architects Alaska, Inc.	Hart Crowser
	RY-065-111		Work Plan UST Removal & Site Assessment (825 Whitney Rd, 1628 Post Rd, Portage Section & Tunnel Section)	August 1990	Reports/Work Plans	ENSR	ARRC	Hart Crowser
	RY-065-112		Lab Reports	November 1986	Lab Report	Chemical & Geological Lab		Hart Crowser

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RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
	RY-065-113		Tidal Bench Marks (Anchorage, Knick Arm, Cook Inlet)	October 14 1993	Technical Data	U.S. Dept. of Commerce Env. Science Services		Hart Crowser
	RY-065-114		Interim Report Anchorage VOC Monitoring Project	December 16 1993	Reports/Work Plans	Municipality of Anchorage Dept. of Health & Human Services		Hart Crowser
	RY-065-115		Petroleum Users Group - Area Perched Water Determination	February 25 1994	Reports/Work Plans	Emcon Alaska, Inc.	Mike Evans, Signature Flight Support	Hart Crowser
	RY-065-116		Geotechnical Report Transportation Improvement Project	February 1990	Reports/Work Plans	Shannon & Wilson	Alaska Development Consultants	Hart Crowser
	RY-065-117		Final Report 1991 UST Removals & Site Characterizations -- Tunnel Section, Moose Pass, Anchorage (Partial Report -- Section 9 only)	January 1992	Reports/Work Plans	ENSR	ARRC	Hart Crowser
	RY-065-118		Environmental Baseline Assessment	March 2001	Reports/Work Plans	Shannon & Wilson	Criterion General, Inc.	Hart Crowser
	RY-065-119		Demolition & Excavation Observations & Testing at Station No. 5057	December 12 1988	Reports/Work Plans	RZA, Inc.	Unocal	Hart Crowser
	RY-065-120		Summary Site Assessment Report	July 1992	Reports/Work Plans	Shannon & Wilson	Petroleum Users Group	Hart Crowser
	RY-065-121		Ship Creek: Monitoring Wells and Oil Collection Gallery Ship Creek Railroad Yard	August 1989	Reports/Work Plans	Shannon & Wilson	ADEC	Hart Crowser
	RY-065-122	SC-023	Phase I Storm Sewer System Evaluation Anchorage Railroad Yard	March 17 1994	Reports/Work Plans	CRW Engineering Group	ARRC	Hart Crowser
	RY-065-123		Hazard Study for the Bulk POL Facilities in the Port of Anchorage, Alaska (Document is located in LP-003-012)	August 2002	Reports/Work Plans	Golder Associates	Municipality of Anchorage	Hart Crowser
	RY-065-124	SC-240	RCRA Facility Assessment Report	March 1996	Reports/Work Plans	Science Applications International Corp.	U.S. EPA	Hart Crowser
	RY-065-125		Electronic Files - Miscellaneous Documents					Hart Crowser
	RY-065-126		ARRC Waste Profile Sheets		Lab Report	Analytica Environmental		Hart Crowser
	RY-065-127		Lab Reports	May 12 2003	Lab Report	Analytica Environmental		Hart Crowser
	RY-065-128		Transmittal of ADEC and ARRC Site Records	June 4 2003	Correspondence	ARRC	U.S. EPA	Hart Crowser
	RY-065-129		Second Transmittal of ADEC and ARRC Site Records	June 23 2003	Correspondence	ARRC	U.S. EPA	Hart Crowser
	RY-065-130		Seventh Transmittal of ADEC and ARRC Site Records	August 26 2003	Correspondence	ARRC	U.S. EPA	Hart Crowser
	RY-065-131		Miscellaneous Tables & Figures					Hart Crowser
	RY-065-132		Railcar 9110R and 9114R Sampling Plan Report of Results	July 17 1995	Reports/Work Plans	ARRC		Hart Crowser
	RY-065-133		Car Shop Air Room Storage Area Report of Results	May 5 1995	Reports/Work Plans	ARRC		Hart Crowser
	FY-065-134	SC-115	Final Report 1991 Underground Storage Tank Removals and Site Characterizations Tunnel Section, Moose Pass	January 1992	Reports/Work Plans	ENSR	ARRC	Hart Crowser
	RY-065-135		Drawing - Sanding & Fueling Station		Maps/Drawings/Photos	ARRC		Hart Crowser
	RY-065-136		Photos		Maps/Drawings/Photos	ARRC		Hart Crowser
	RY-065-137		Summary of Analytical Testing	November 9 1993	Correspondence	Shannon & Wilson	ARRC	Hart Crowser
	RY-065-138		Miscellaneous Figures & Drawings	October 14 1993	Maps/Drawings/Photos			Hart Crowser
	RY-065-139		Lab Reports	November 5 1993	Lab Report	Commercial Testing & Engineering Co.	ARRC	Hart Crowser
	RY-065-140		Ship Creek: Photos		Maps/Drawings/Photos			Hart Crowser
	RY-065-142		Ship Creek: Spill Prevention Control & Countermeasure	July 10 1987	Permits/Applications/Forms	ARRC		Hart Crowser
	RY-065-143		Ship Creek: Authority to Negotiate	1986	Permits/Applications/Forms			Hart Crowser
	RY-065-144		Ship Creek: Specification for Portable Communication Equipment Shelter with Steel Exterior Skin					Hart Crowser
	RY-065-145		Ship Creek: Ship Creek Oil Seep Background	January 1987	Reports/Work Plans			Hart Crowser
	RY-065-146		Ship Creek: Lab Reports	September 26 1986	Lab Report	Chemical & Geological Lab	ARRC	Hart Crowser
	RY-065-147		Ship Creek: Purchase Building to House Groundwater Clean-up Equipment (Ship Creek Seep)	June 20 1988	Correspondence	ARRC	ARRC	Hart Crowser
	RY-065-148		Ship Creek: Investigation of Ship Creek Oil Seep	March 11 1987	Correspondence	ARRC	ADEC	Hart Crowser
	RY-065-149		Ship Creek: Ship Creek Oil Spill Report	May 26 1987	Correspondence	ADEC	ARRC	Hart Crowser
	RY-065-153		Ship Creek: Comparative Analysis Between Waste		Correspondence	David Nyman	Obie Weeks	Hart Crowser
	RY-065-154		Ship Creek: Ship Creek Seep AFE		Correspondence			Hart Crowser
	RY-065-158		Ship Creek: Miscellaneous Figures & Drawings		Maps/Drawings/Photos			Hart Crowser
	RY-065-159		Ship Creek: Ship Creek Oil Seep Investigation	December 1986	Reports/Work Plans	Shannon & Wilson	ARRC	Hart Crowser
	RY-065-160		Bluff Dig - ADEC Registration for Installation, Repair, Upgrade or Reconfiguration	August 14 2001	Permits/Applications/Forms		ADEC	Hart Crowser
	RY-065-161		Bluff Dig - Alaska UST Facility Summary Report for Facility 3433 Old Bluff Power Plant	May 18 2004	Reports/Work Plans			Hart Crowser

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			Document Description					
	RY-065-162		Electronic Files - Miscellaneous Documents					
	RY-065-163		Material Evaluation Report for Ship Creek Bluff Borrow Site	March 1998	Reports/Work Plans	Shannon & Wilson	Flamingo Brothers	PENDING
	RY-065-164		Preliminary Sample Results from Ship Creek Bluff Borrow Site	September 1999	Reports/Work Plans	Shannon & Wilson	Flamingo Brothers	PENDING
	RY-065-165		Alaska Railroad Yard Expansion Mining Plan					PENDING
	RY-065-166		Railcar 911OR and 9114R Sampling Plan	June 1994	Reports/Work Plans	ARRC		U.S. EPA (ATRAR)
	RY-065-167		Railcars 911OR and 9114R Sampling Plan Car Shop Air Room Storage Area Sampling Plan / Quality Assurance Plan	September 8 1994	Reports/Work Plans	ARRC		U.S. EPA (ATRAR)
	RY-065-168		Car Shop Air Room Storage Area Sampling Plan	June 1994	Reports/Work Plans	ARRC		U.S. EPA (ATRAR)
	RY-065-169		RCRA Facility Assessment Preliminary Assessment Report	July 1994	Reports/Work Plans	Science Applications International Corp.		U.S. EPA (ATRAR)
	RY-065-170		Potential Hazardous Waste Site Disposition	December 30 1985	Permits/Applications/Forms	U.S. EPA		U.S. EPA (ATRAR)
	RY-065-171		Potential Hazardous Waste Site Disposition	September 26 1984	Permits/Applications/Forms	U.S. EPA		U.S. EPA (ATRAR)
	RY-065-172		Implementation of Hazardous Waste Program	June 13 1983	Correspondence	ARRC	U.S. EPA	U.S. EPA (ATRAR)
	RY-065-173		Field Investigation Report	October 22 1980	Reports/Work Plans	Ecology and Environment, Inc.	ARRC	U.S. EPA (ATRAR)
	RY-065-174		Workplan - Waste Accumulation and Handling Facility	April 11 1994	Reports/Work Plans	ARRC	U.S. EPA	U.S. EPA (ATRAR)
	RY-065-175		Additional Questions: Response #6	December 8 1995	Correspondence	ARRC	SAIC	U.S. EPA (ATRAR)
	RY-065-176		Additional Clarification: Response #7	December 28 1995	Correspondence	ARRC	SAIC	U.S. EPA (ATRAR)
	RY-065-177		Annual Sample - Steam Tank Oil/Water Separator / Tank Car 9114R	June 16 1995	Lab Report	Columbia Analytical Services	ARRC	U.S. EPA (ATRAR)
	RY-065-178		Level I Data Deliverables Report	August 10 1992	Lab Report	Chemical & Geological Lab	ARRC	U.S. EPA (ATRAR)
	RY-065-179		Lab Data - Sludge Waste	November 24 1993	Correspondence	ARRC	Alaska Pollution Control	U.S. EPA (ATRAR)
	RY-065-180		Lab Data	October 1992	Lab Report	Chemical & Geological Lab	ARRC	U.S. EPA (ATRAR)
	RY-065-181		Lab Data	April 1992	Lab Report	Chemical & Geological Lab	ARRC	U.S. EPA (ATRAR)
	RY-065-182		Level One Data Deliverables	1994	Lab Report	Commercial Testing & Engineering Co.	ARRC	U.S. EPA (ATRAR)
	RY-065-183		Soil Pile #4 Unknown UST Soils	1995	Lab Report			U.S. EPA (ATRAR)
	RY-065-184		Installation, Operation & Repair Manual		Publication	Anchorage Tank & Welding	ARRC	U.S. EPA (ATRAR)
	RY-065-185		Drawings and Schematics		Maps/Drawings/Photos			U.S. EPA (ATRAR)
	RY-065-187		Lab Data	July 22 2003	Lab Report	Analytica Environmental	ARRC	U.S. EPA (ATRAR)
	RY-065-188		Delegation of Authority	May 10 2004	Correspondence	ARRC	ARRC	U.S. EPA (ATRAR)
	RY-065-189		Evaluations Performed by ADEC	April 12 1985	Correspondence	ARRC	ADEC	U.S. EPA (ATRAR)
	RY-065-190		Lab Data	November 15 1985	Lab Report	Ecology and Environment, Inc.	U.S. EPA	U.S. EPA (ATRAR)
	RY-065-191		Lab Data	November 12 1985	Lab Report	Ecology and Environment, Inc.	U.S. EPA	U.S. EPA (ATRAR)
	RY-065-192		Lab Data	November 6 1985	Lab Report	Ecology and Environment, Inc.	U.S. EPA	U.S. EPA (ATRAR)
	RY-065-193		1988 Hazardous Waste Generation and Shipment Report	June 2 1989	Permits/Applications/Forms	ADEC	ARRC	U.S. EPA (ATRAR)
	RY-065-194		Lab Data	November 15 1983	Lab Report	Chemical & Geological Lab	ARRC	U.S. EPA (ATRAR)
	RY-065-195		Notice of Violation (Vern's Asphalt)	September 8 1982	Legal Document			U.S. EPA (ATRAR)
	RY-065-196		Illegal Disposal of Petroleum Product (Vern's Asphalt)	September 9 1982	Correspondence	State of Alaska	State of Alaska	U.S. EPA (ATRAR)
	RY-065-197		Alaska Railroad Xylene (Vern's Asphalt)	November 9 1982	Correspondence	State of Alaska	State of Alaska	U.S. EPA (ATRAR)
	RY-065-198		RCRA Compliance -- ARRC / Vern's Asphalt	February 18 1983	Correspondence	U.S. EPA	U.S. EPA	U.S. EPA (ATRAR)
	RY-065-199		RCRA Inspections - ARRC, Crowley Environmental & Vern's Asphalt	April 22 1983	Correspondence	U.S. EPA	U.S. EPA	U.S. EPA (ATRAR)
	RY-065-200		Photos and Figure of Hydrologic Cycle Related to Anchorage Area		Maps/Drawings/Photos			U.S. EPA
RY-065 SWMU1								
RY-065 SWMU2								
RY-065 SWMU3								
RY-065 SWMU4								

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Document Description								
RETEC Site No.	RETEC File No.	Hart Crowser File ID No.	Report/Document Title	Document Date	Document Type	Prepared By (Author)	Prepared For (Orig/Owner)	Obtained From (Doc. Location)
RY-065 SWMU5								
RY-065 SWMU6								
RY-065 SWMU7								
RY-065 SWMU8								
RY-065 SWMU9								
RY-065 SWMU10								
RY-065 SWMU11								
RY-065 SWMU12								
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RY-065 SWMU33								
RY-065 SWMU34								

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RY-065 SWMU35								
RY-065 SWMU36								
RY-065 SWMU37								
RY-065 SWMU38								
RY-065 SWMU39								
RY-065 SWMU40								
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RY-065 SWMU61								
RY-065 SWMU62								

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RY-065 SWMU63								
RY-065 SWMU64								
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RY-065 SWMU66								
RY-065 SWMU67								
RY-065 SWMU68								
RY-065 SWMU69								
RY-065 SWMU70								
RY-065 SWMU71								
RY-065 SWMU72								
RY-065 SWMU73								
RY-AOC1								
RY-AOC2								
RY-AOC3								
RY-AOC4								
RY-AOC5								
RY-AOC6								
RY-AOC7								
SC-001 Ship Creek								
	SC-001-001	SC-051	Petition to Reclassify Portions of Ship, Chester, Campbell & Fish Creeks	January 30 1980	Reports/Work Plans		Municipality of Anchorage	Hart Crowser
	SC-001-002	SC-218	1988 Statewide Water Quality Assessment		Permits/Applications/Forms	ADEC		Hart Crowser
	SC-001-003	SC-049 SC-097	Letter with Attachments -- Evaluation of Ship Creek Fish and Sediment Studies	February 21 1989	Correspondence	Municipality of Anchorage	ADEC	Hart Crowser
	SC-001-004	SC-138	News from the Alaska Public Health Association	April 1989	Publication	Alaska Medicine		Hart Crowser
	SC-001-005	SC-219	1989 Nonpoint Source Water Quality Assessment	May 1989	Permits/Applications/Forms	ADEC		Hart Crowser
	SC-001-006	SC-029	Lateral Movement of Contaminated Groundwater from Merrill Field Landfill	1990	Reports/Work Plans	Municipality of Anchorage	Dept. of Interior	Hart Crowser
	SC-001-007	SC-210	Ship Creek Waterfront Request for Proposal (Summary)	October 1990	Reports/Work Plans		Anchorage Economic Development Corp.	Hart Crowser
	SC-001-008	SC-212	Public Hearing Draft -- Review of Ship Creek	June 11 1991	Correspondence	Dept. of Fish & Game	Dept. of Fish & Game	Hart Crowser
	SC-001-009	SC-213	Ship Creek Waterfront Land Use Plan	June 21 1991	Correspondence	Municipality of Anchorage	Planning & Zoning Commission	Hart Crowser
	SC-001-010	SC-211	Monthly Activity Report Ship Creek Water Treatment Facility Field Operations and Eklutna Water Treatment Facility	September 1991	Reports/Work Plans		Municipality of Anchorage Wastewater Utility	Hart Crowser
	SC-001-011	SC-070	Request for Quotation	September 14 1993	Permits/Applications/Forms	ADEC	ADEC	Hart Crowser
	SC-001-012	SC-099	Samples Collected from 2 outfall points (Moose Run Golf Course & downstream of power plant)	February 16 1994	Correspondence	Dept. of the Army	ADEC	Hart Crowser
	SC-001-013	SC-038	Progress Report - Urban Contaminants Project: Data for Sediment, Fish, and Eggs Collected from Chester Creek	April 6 1994	Reports/Work Plans	U.S. Fish & Wildlife		Hart Crowser
	SC-001-014	SC-092	Site Assessment / Release Investigation and Corrective Action Plan, Site 4, Building 35752 High-Frequency Transmitter Site (Excerpt)	April 13 1994	Reports/Work Plans	Harding Lawson Associates	U.S. Army Corps of Engineers	Hart Crowser
	SC-001-015	SC-105	Excerpts from Report -- 1994 Remedial Action Objectives for Standard Steel & Metals Salvage Yard Superfund Site (Draft Technical Memo)	July 15 1994	Reports/Work Plans	Woodward-Clyde		Hart Crowser
	SC-001-016	SC-091	Preliminary Source Evaluation 2 Operable Unit D Redline Final (Excerpt)	August 1995	Reports/Work Plans	ENSR Consulting	U.S. Army Corps of Engineers	Hart Crowser

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	SC-001-017	SC-090	Geotechnical Report for Groundwater Monitoring Network (Excerpt)	February 1996	Reports/Work Plans		U.S. Army Corps of Engineers	Hart Crowser
	SC-001-018	SC-089	Draft Management Plan Operable Unit D (Excerpt)	February 1996	Reports/Work Plans	U.S. Army Corps of Engineers	Elmendorf Air Force Base	Hart Crowser
	SC-001-019	SC-053	Temporary Water Use Permit	April 25 1996	Correspondence	Dept. of Natural Resources	Emulsion Products of Alaska	Hart Crowser
	SC-001-020	SC-054	Proposed Ship Creek Dam Request for Information with List of Agencies and Organizations	June 6 1996	Correspondence	Anchorage Waterways Council	ADEC	Hart Crowser
	SC-001-021	SC-206	ADFG Fish Info: Ship Creek Chinook Salmon Fisheries	June 17 1996	Reports/Work Plans	Div. Of Mining & Water Mgmt.	ADEC	Hart Crowser
	SC-001-022	SC-055	Response to Letter Requesting Information from DEC on Ship Creek	July 2 1996	Correspondence	ADEC	Anchorage Waterways Council	Hart Crowser
	SC-001-023	SC-034	Summary of Available Information on Natural Occurrence of Mercury in Stream and Marine Sediments throughout Alaska & Seward Quadrangle	September 5 1996	Correspondence	CH2MHill	ARRC	Hart Crowser
	SC-001-024	SC-073	Ship Creek Enhancement Project Bibliography	November 1 1996	Reports/Work Plans			Hart Crowser
	SC-001-025	SC-104	Response Letter: Report on Determining if PCBs are Present in Aquatic Food Chain of Ship Creek	March 28 1997	Correspondence	U.S. Dept. of the Interior	ADEC	Hart Crowser
	SC-001-026	SC-072	Ship Creek Water Quality Assessment Phase II (Master of Science Project)	December 1977	Reports/Work Plans	Kevin Boden, Colorado State University	Univ. of Alaska Anchorage	Hart Crowser
	SC-001-027	SC-032	Ship Creek Brownfields Site Assessment Final Sampling & Quality Assurance Plan	September 1998	Reports/Work Plans	Ecology & Environment, Inc.	U.S. EPA	Hart Crowser
	SC-001-028	SC-030	Transmittal of Site Investigation Sampling & Analysis Plan KAPP Repowering Project	March 21 2000	Reports/Work Plans	Steigers Corp.	ADEC	Hart Crowser
	SC-001-029	SC-024	1999 Alaska Biological Monitoring & Water Quality Assessment Program Report	August 2000	Reports/Work Plans	Environment & Natural Resources Institute	ARRC	Hart Crowser
	SC-001-030	SC-139	Survey Data -- Fish Data Sheet	January 23 2001	Permits/Applications/Forms			Hart Crowser
	SC-001-031	SC-039	Evaluation of Contaminant Exposure & the Potential Impacts on Aquatic Habitat Quality in the Anchorage Area of the Cook Inlet Basin	February 28 2001	Reports/Work Plans	U.S. Geological Survey	USGS-WRD	Hart Crowser
	SC-001-032	SC-071	Hydrologic Susceptibility and Vulnerability Assessment for Municipality of Anchorage - Ship Creek Public Drinking Water Source	2001	Reports/Work Plans	ADEC	ADEC	Hart Crowser
	SC-001-033	SC-060	Technical Report No. 01-7 Chester Creek Stream Condition Evaluation	July 2001	Reports/Work Plans		Alaska Dept. of Fish & Game	Hart Crowser
	SC-001-034	SC-047	Ship Creek Culvert Removal Project - Draft EA	August 1 2002	Correspondence	U.S. Dept. of Commerce (NOAA)	HDR Alaska, Inc.	Hart Crowser
	SC-001-035	SC-048	Multi Use Trail Construction & Bridge Replacement - Ship Creek	November 27 2002	Correspondence	Alaska Dept. of Fish & Game	Municipality of Anchorage	Hart Crowser
	SC-001-036	SC-106	Study of Oil Pollution in an Alaskan Salmon Hatchery's Water Supply Vol. I	June 18 1978	Reports/Work Plans	Anchorage Waterways Council	Municipality of Anchorage	Hart Crowser
	SC-001-037	SC-116	Investigation of Surface Water Quality of Four Selected Streams Within the Anchorage Urban Area	July 1981	Reports/Work Plans	ADEC	ADEC	Hart Crowser
	SC-001-038	SC-205	Concentrations of Selected Hydrocarbons in Arctic Diesel Oil & Potentially Petroleum Impacted Hatchery Trout (Excerpt)	November 1982	Reports/Work Plans	Battelle Pacific Northwest Labs	Alaska Dept. of Fish & Game	Hart Crowser
	SC-001-039	SC-228	Macroinvertebrate Distribution & Water Quality in Anchorage Streams	June 1 1989	Reports/Work Plans	Woodward-Clyde	Municipality of Anchorage	Hart Crowser
	SC-001-040	SC-114	Federal Aid in Sport Fish Restoration, Volume 4, Number 3, Elmendorf Hatchery	November 1989	Reports/Work Plans	Alaska Dept. of Fish & Game	Alaska Dept. of Fish & Game	Hart Crowser
	SC-001-041	SC-094	Water Quality Monitoring Program 1989/90 Annual Report	July 1990	Reports/Work Plans	JMM Consulting Eng., HDR/OTT Engineering	MOA Dept. of Health & Human Services	Hart Crowser
	SC-001-042	SC-229	Macroinvertebrate Water Quality Monitoring Program in Anchorage Streams 1989 Results	August 1990	Reports/Work Plans	Woodward-Clyde	Municipality of Anchorage	Hart Crowser
	SC-001-043	SC-231	Draft Report Investigation of Sedimentation Processes in the Vicinity of the Ship Creek Waterfront Development	October 31 1990	Reports/Work Plans	Woodward-Clyde & Coastline Engineering		Hart Crowser
	SC-001-044	SC-112	Federal Aid in Sport Fish Restoration, Volume 5, Number 4, Fort Richardson Hatchery	November 1990	Reports/Work Plans	Alaska Dept. of Fish & Game	Alaska Dept. of Fish & Game	Hart Crowser
	SC-001-045	SC-208	Ship Creek - Port Area Meriting Special Attention Plan (Public Hearing Draft)	May 1991	Reports/Work Plans	Municipality of Anchorage	Municipality of Anchorage	Hart Crowser
	SC-001-046	SC-209	Ship Creek Bridge & North "C" Street Realignment Final Environmental Assessment	August 1991	Reports/Work Plans	Peratovich, Nottingham & Drage	Municipality of Anchorage	Hart Crowser
	SC-001-047	SC-111	Fort Richardson Hatchery Water Pipeline	January 27 1992	Reports/Work Plans	FR Bell & Associates	Municipal Light & Power	Hart Crowser
	SC-001-048	SC-110	Assessment of Water Quality in Chester Creek Bioassays	April 1992	Reports/Work Plans	Environment & Natural Resources Institute	Alaska Dept. of Fish & Game	Hart Crowser

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	SC-001-049	SC-113	Federal Aid in Sport Fish Restoration, Volume 7, Number 2, Elmendorf Hatchery	September 1992	Reports/Work Plans	Alaska Dept. of Fish & Game	Alaska Dept. of Fish & Game	Hart Crowser
	SC-001-050	SC-232	1993 Evaluation of Campbell Creek using Rapid Bioassessment Techniques	December 1993	Reports/Work Plans	Environment & Natural Resources Institute	ADEC	Hart Crowser
	SC-001-051	SC-149	Draft State of the Streams Report	February 9 1994	Reports/Work Plans		Municipality of Anchorage	Hart Crowser
	SC-001-052	SC-134	Restoration & Enhancement of Aquatic Habitats in Alaska: Case Study Reports, Policy Guidance, and Recommendations (Tech Rpt. No. 94-3)	July 1994	Reports/Work Plans	Alaska Dept. of Fish & Game	Alaska Dept. of Fish & Game	Hart Crowser
	SC-001-053	SC-133	1993 Area Management Report for the Recreational Fisheries of the Southwest Alaska Area (Fishery Management Report No. 94-4)	July 1994	Reports/Work Plans	Alaska Dept. of Fish & Game	Alaska Dept. of Fish & Game	Hart Crowser
	SC-001054	SC-137	Municipality of Anchorage Comments for ADEC Revised 1994 Clean Water Act Section 303(d)(1)(A) and (B) List	September 23 1994	Reports/Work Plans	Municipality of Anchorage	ADEC	Hart Crowser
	SC-001-055	SC-202	Draft Ship Creek Bioassessment Investigations	December 1 1994	Reports/Work Plans	Pacific Northwest Labs	Elmendorf Air Force Base	Hart Crowser
	SC-001-056	SC-109	Summary of the Bioassessment of Stream Water Quality with the Municipality of Anchorage	December 1995	Reports/Work Plans	Institute of Arctic Biology	UAF	Hart Crowser
	SC-001-057	SC-118	NEPA Review Comments Moose Run Golf Course First Tier Environmental Assessment	July 3 1996	Correspondence	Dept. of Natural Resources	U.S. Army Corps of Engineers	Hart Crowser
	SC-001-058	SC-120	Chronology of Water Use & Water Rights on Ship Creek	March 1997	Reports/Work Plans	U.S. Army Alaska		Hart Crowser
	SC-001-059	SC-207	Ship Creek Water Balance / Water Use Report	June 30 1997	Reports/Work Plans	Dept. of Natural Resources	Municipality of Anchorage	Hart Crowser
	SC-001-060	SC-200	Ship Creek Water Quality Information	June 30 1997	Reports/Work Plans	Dept. of Natural Resources	Municipality of Anchorage	Hart Crowser
	SC-001-061	SC-132	Marking, Enumeration & Size Estimation for Coho and Chinook Salmon Smolt Releases into Upper Cook Inlet, Alaska in 1996 (Fisheries Data Series No. 97-13)	July 1997	Reports/Work Plans	Alaska Dept. of Fish & Game	Alaska Dept. of Fish & Game	Hart Crowser
	SC-001-062	SC-018	EPA Superfund Record of Decision: Fort Richardson OU 02	September 15 1997	Reports/Work Plans	U.S. EPA		Hart Crowser
	SC-001-063	SC-131	Marking, Enumeration & Size Estimation for Coho and Chinook Salmon Smolt Releases into Upper Cook Inlet & Resurrection Bay, Alaska in 1997 (Fisheries Data Series No. 99-1)	April 1999	Reports/Work Plans	Alaska Dept. of Fish & Game	Alaska Dept. of Fish & Game	Hart Crowser
	SC-001-064	SC-117	Ship Creek Watershed Reconnaissance Report and Feasibility Phase Project Study Plan	September 1999	Reports/Work Plans	Tryck Nyman Hayes, Inc. & TetraTech/Simons	U.S. Army Corps of Engineers	Hart Crowser
	SC-001-065	SC-230	Thesis - Macroinvertebrates as an Indicator of Urbanization in Ship Creek & a Comparison of Two Sampling & Analytical Methods in Southcentral Alaskan Creeks	December 1999	Reports/Work Plans	Dept. of Environmental Science	APU	Hart Crowser
	SC-001-066	SC-130	Marking, Enumeration and Size Estimation for Coho & Chinook Salmon Smolt Releases into Upper Cook Inlet, Alaska in 1998 (Fisheries Data Series No. 00-7)	July 2000	Reports/Work Plans	Alaska Dept. of Fish & Game	Alaska Dept. of Fish & Game	Hart Crowser
	SC-001-067	SC-020	Summary of the Panel Discussion on Water Rights in the Ship Creek Watershed at the Annual Meeting of the Anchorage Waterways Council on Jan. 24 2000 & the Resulting Proposed Action	June 7 2000	Reports/Work Plans	Anchorage Waterways Council	Anchorage Waterways Council	Hart Crowser
	SC-001-068	SC-017	EPA Superfund Record of Decision: Fort Richardson OU 04	September 27 2000	Reports/Work Plans	U.S. EPA	U.S. EPA	Hart Crowser
	SC-001-069	SC-136	Bioassessment of Select Streams at Anchorage, Alaska: 2000 Data Report	December 2000	Reports/Work Plans	Municipality of Anchorage	Municipality of Anchorage	Hart Crowser
	SC-001-070	SC-108	Technical Report No. 01-7 Chester Creek Stream Condition Evaluation	July 2001	Reports/Work Plans	Alaska Dept. of Fish & Game	Municipality of Anchorage	Hart Crowser
	SC-001-071	SC-107	State of the Creeks Anchorage Waterways Council Annual Report 2000-2001		Reports/Work Plans	Anchorage Waterways Council	Municipality of Anchorage	Hart Crowser
	SC-001-072	SC-135	2002 Alaska Biological Monitoring & Water Quality Assessment Program Report	September 2003	Reports/Work Plans	Environment & Natural Resources Institute	ADEC	Hart Crowser
	SC-001-073	SC-022	State of Alaska Fish & Game & DNR Permits 1991 - Present		Reports/Work Plans	Alaska Dept. of Fish & Game	Alaska Dept. of Fish & Game	Hart Crowser
	SC-001-074	SC-217	National Bioaccumulation Study: Contaminate Concentrations of Xenobiotics other than Dioxin/Furans		Reports/Work Plans			Hart Crowser
	SC-001-075	SC-214	Newspaper Articles		Publication	Anchorage Daily News		Hart Crowser
	SC-001-076		Misc. Tables, Figures, Handwritten Notes					Hart Crowser
	SC-001-077	SC-063	Ship Creek: Effort, Catch & Harvest Information (Table)		Reports/Work Plans	Alaska Dept. of Fish & Game	Alaska Dept. of Fish & Game	Hart Crowser
	SC-001-078	SC-056 SC-057	Ship Creek Total Daily Maximum Load (TMDL) Project Division of Mining & Water Management Alaska Hydrologic Survey Work Plan	May 1996	Reports/Work Plans	ADEC	ADEC	Hart Crowser
	SC-001-079	SC-046	Ship Creek (Information)		Reports/Work Plans			Hart Crowser

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	SC-001-080	SC-074	List of Publications (Surface Water & Biological Water-Quality Studies)		Reports/Work plans		ADEC	Hart Crowser
	SC-001-081	SC-050 SC-203	Watershed Activity Checklist & Report Historical to March 1, 1997		Reports/Work Plans	ADEC	ADEC	Hart Crowser
	SC-001-082	SC-033 SC-069	Watershed Activity Checklist & Report March to September 1997	September 30 1997	Reports/Work Plans	ADEC	ADEC	Hart Crowser
	SC-001-083	SC-068	Summaries of Data Analyzed by EPA/Duluth or Wright State Univ, (National Bioaccumulation Study)		Lab reports		ADEC	Hart Crowser
	SC-001-084	SC-067	Data: Ship Creek Fish Tissue and Sediment		Correspondence		ADEC	Hart Crowser
	SC-001-085	SC-036	ACWA Water List Corrective Action Priorities for Polluted Waters		Reports/Work Plans			Hart Crowser
	SC-001-086	SC-031	Ship Creek Water Quality Assessment Draft Report		Reports/Work Plans		ADEC	Hart Crowser
	SC-001-087	SC-025 SC-026 SC-027 SC-028 SC-035 SC-037 SC-040 SC-041 SC-045 SC-058 SC-059 SC-061 SC-062 SC-064 SC-065 SC-066 SC-148 SC-201 SC-233 SC-234 SC-235 SC-236 SC-237 SC-238	Miscellaneous Regulatory Publications					Hart Crowser
	SC-001-088		Reconnaissance Survey	June 17 2004	Reports/Work Plans	Hart Crowser	ARRC	Hart Crowser
	SC-001-089		Ship Creek Surface Water and Sediment Assessment Report	May 2004	Reports/Work Plans	Hart Crowser	ARRC	Hart Crowser
	SC-001-090		Ship Creek Literature Review	July 2004	Reports/Work Plans	Hart Crowser	ARRC	Hart Crowser
	SC-001-091		Ship Creek Storm Drain Sampling	August 2003	Reports/Work Plans	Hart Crowser	ARRC	PENDING
	SC-001-092		Lab Data	March 2004	Lab Reports	North Creek Analytical		
	SC-001-093		Site Map		Maps/Drawings/Photos			U.S. EPA (ATRAR)
	SC-001-094		Photo of Fisherman in Ship Creek		Maps/Drawings/Photos			U.S. EPA (ATRAR)

CD for Electronic Database
is located at the back of this binder

Appendix C

Railyard Site Summary

Appendix C
Summary of Available Railyard Information

SWMU or AOC Identified by EPA	Approximate Location	Site Overview (narrative)	Recommended Action per RFA	ARRC Coment Regarding RFA	Releases and/or Environmental Issues	Potential Environmental Constituents	Investigation and/or Cleanup Actions Conducted
SWMU 10 Diesel Shop Satellite Accumulation Area	Diesel Shop	Diesel Shop constructed 1949, start date for unit not known. Active during VSI. This SWMU used for accumulation of waste solvents generated from two parts washers (SWMUs 51 and 52).	RFA states that location currently undergoing closure, which should be completed.		Accumulation of waste solvents generated from parts washers.	Prior to 1991, generation of waste Stoddard solvent mixed with 1,1,1-trichloroethane. After 1991, ARRC was to discontinue mixing these wastes. Unidentified waste (< 5 gal) was stored in the area.	Following ADEC Compliance Inspection (1991), ARRC operations changed to discontinue mixing waste solvents.
SWMU 13 Electric Shop Oil Collection Sump	W of Electric Shop	Oil Collection Sump reportedly constructed with the Electric Shop Building in 1949, and active during VSI. SWMU is located immediately outside the west end of the Electric Shop. Approx. 385 gallons of sludge removed every 3 to 4 months for off-site management; oil and wastewater are pumped to an oil / water separator (SWMU 16).	RFA states that floor drains for the Electric Shop, Diesel Shop, Heavy Equipment Shop, and Fueling Station all drain to this sump. RRA recommends testing integrity of sump to determine whether impacts may have occurred to surrounding soil / groundwater.	The sludge quantity ARRC provided was an annual estimate. ARRC has also visually inspected the interior of the sump and found it to be in good condition.	Accumulation of water, oil, and sludge originating from Electric Shop, Diesel Shop, Heavy Eqipment Shop, and Fueling Station. If integrity of sump is compromised, potential for releases to the environment.	Oil, water, and sludge sampled 4 times between 1993 - 1995. In 1994, TCLP benzene detected at 19.9 mg/L in oil phase of a sample.	According to RFA, four waste characterization sampling events from 1993 to 1995. No known cleanup actions required / conducted.
SWMU 14 Electric Shop Oil Storage Tank	Located inside west end of Electric Shop	Operational history: installed c. 1978 with adjacent Oil / Water Separator, and active during VSI. Does not include secondary containment, but is located within Electric Shop, No history of releases.	RFA states that due to lack of secondary containment and location near exterior(?) doorway, exterior(?) soils should be evaluated for contamination.	ADEC requires reporting of any spills to secondary containment in excess of 55 gallons. Therefore, any large spills from this tank should have been reported. Since there have not been any reported spills and the tank is inside a building with a concrete floor, ARRC believes there is a low likelihood for potential for releases.	Used oil from the adjacent OWS (SWMU 67) is stored in this vessel prior to being pumped to a tank car (SWMU 16) or pickup for management offsite.	Used Oil.	None
SWMU 15 Former Oil Storage Containers	West End Electric Shop (RFA map and description not consistent)	Operational history: start date not known, and containers no longer used by 1985. SWMU was two former 100-gal capy oil storage containers. Operation from ?? to c. 1985. Unknown whether secondary containment existed. No process information regarding sources or management of containerized materials. No history of releases.	RFA states that presence of soil or groundwater contamination associated with the former containers should be evaluated.		Waste oil, solvents, and water were collected in these containers.	waste oil, solvents	None

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Summary of Available Railyard Information

SWMU or AOC Identified by EPA	Approximate Location	Site Overview (narrative)	Recommended Action per RFA	ARRC Coment Regarding RFA	Releases and/or Environmental Issues	Potential Environmental Constituents	Investigation and/or Cleanup Actions Conducted
SWMU 16 Oil Storage Tank Cars	E of Diesel Shop; E of Car Shop; E of Doll House	Operational history: unit operated 1965 to present. SWMU is four 10,000-gal capy tank cars used to store used oil, utilized from 1965 to at least 1996. Cars receive oil from SWMUs 13, 14, 67 as well as locomotive / equipment maintenance activities. Release controls are absent. Lead impacts to soil id'd in vicinity of Tank Car stored E of the Doll House (five samples, reported range of 30 - 80 mg/kg).	RFA states that lack of secondary containment associated with the Tank Cars indicates that soil should be evaluated for potential spills.	The Unit Description should note that ARRC has successfully rebutted the presumption that the high halogen content in the oil was from mixing of solvents. In addition, although journal oil has been generated, it has not been placed in a railcar. The Conclusions should note that although lead was detected in some of the samples where 9114R was stored, the values were within background levels observed in the Anchorage Bowl.	1. Tank Cars receive used oil from the Electric Shop, Diesel Shop, Heavy Equipment Shop, (and Fueling Station?) via SWMUs 13, 14, and 67. 2. Tank Cars receive used oil from the General Repair Shop - oil drained from locomotives and heavy equipment. 3. Tank Cars receive used oil from tank used to soak journal pads. 4. Tank Cars are emptied approx. 4 times annual with vac truck, assisted by steam heating (condensed steam disposed of via steam rack OWS).	Used Oil Stoddard Solvent (reportedly mixed with the oil) halogen compounds lead in soil (associated with tank car located E of the Doll House).	None
SWMU 20 Car Shop Air Room Hazardous Waste Storage Area	Outside the Car Shop Air (Brake?) Room at the end of a storage shed.	Operational history: Air Brake Room shed constructed in 1966. Unit active during VSI. Area used for storage of management of wastes associated with brake maintenance (?).	RFA states that these areas should be evaluated for potential historical releasese to soil.		1. Some drums reportedly lack secondary containment; 2. General use of secondary containment reportedly begain in 1994; 3. Drums used to temporarily store solvents, paint thinner, and used oil; and 4. Stoddard solvent is blended with waste oil prior to being sent to offsite third party for management	Used oil stoddard solvent (reportedly mixed with the oil) paint thinner glass beads from sandblasting operations	None

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Summary of Available Railyard Information

SWMU or AOC Identified by EPA	Approximate Location	Site Overview (narrative)	Recommended Action per RFA	ARRC Coment Regarding RFA	Releases and/or Environmental Issues	Potential Environmental Constituents	Investigation and/or Cleanup Actions Conducted
SWMU 22 Heavy Equipment Shop Floor Drain	E end of Heavy Equip. Shop	Operational history: Heavy Equipment Shop built in 1949. Start date unknown, but operational during VSI. Located in the equipment wash area of Heavy Equip. Shop. Drain discharges to grease trap, which drains to sump (SWMU 13) and OWS (SWMU 67) at W end of Electric Shop. Until 1991, parts cleaned in a dip tank (containing methylene chloride and cresol) were rinsed over the floor drain.	RFA states that sampling should be conducted to identify any releases of hazardous constituents to soil and groundwater	The tank was used infrequently and a more accurate process description is "solids from the floor drains in the wash bay were collected." ARRC disagrees with the assertion that the sludges were hazardous. The CEI inspection report states that analytical results were not provided. EPA received information that the sludges were hazardous from an uninformed ARRC employee who was not knowledgeable about the specific testing nd other criteria for designating a material as a hazardous waste. ARRC recently discovered test results identified as "Heavy Equipment & Shop Sump Solids" misfiled. These results probably reflect the constituents in the floor drain material and confirm the conclusion that this material was non-hazardous. The earliest results were from August 1991, not 1992 as stated. The third paragraph (page 53) is a summary of the 1991 results. The highlighted numbers inaccurately indicate that all the samples were from the Heavy Equipment Shop. Paragraph 3 (page 53) contains errors that should be corrected as follows: - Generally six samples were composite, not 12. - Composites 2, 7, 8, 9 and Group 9 are from the Heav Shop. Composite 5 is from a different source. - The second reference to COMP 9 should read Group clearly a different sample. - The second reference to COMP 9 (Group 9) should re mg/l of ethylbenzene; 0.024 mg/l of TCLP p & m xy 137,000 ppm total petroleum hydrocarbon. ARRC disagrees that the floor drain creates a high potential for releases to soil and groundwater and that the concrete has cracks and visible chips.	1. Sludge recovered from floor drain (390 gal every 6 months) determined to be hazardous in 1989. 2. Variety of solvents and benzene levels present in sludge, and cracks visible in concrete. 3. As of RFA (1996), water generated from snow melt and vehicle cleaning are routed to floor drain.	Sludge analysis from 1992 reported the presence of: 1. TPH, 154,000ppm; 2. Methylene Chloride, 0.0035 ppm; 3. Trichlorofluoromethane, 0.0062 ppm; 4. Benzene, 0.0012 ppm; 5. Toluene, 0.013 ppm; 6. Ethylbenzene, 0.0058 ppm; and 6. Xylenes, 0.038 ppm. Sludge analysis from 1993 contained some of the same constituents plus 1,1-dichloroethane.	None
SWMU 23 Heavy Equipment Shop Drum Storage Area	North-central portion of Heavy Equip. Shop	Operational history: Heavy Equipment Shop built in 1949, unit probably operational since that time, and active during VSI. Note that between 1989 and 1991, drums were moved from Engineering Building and Heavy Equipment Shop to this location. Drums or containers of stoddard solvent, paint thinner, used antifreeze, used oil, aerosol cans, and Voltz citrus (for dip tanks) have been stored in the area. Tank for oil accumulation constructed 1993. As observed during VSI, area lacked secondary containment other than concrete flooring.	RFA states that area used for waste storage and transfer - potential historical source of contamination.		1. Storage of described waste materials - potential for releases. 2. Reported filtration / decanting / transfer of waste materials - potential for releases.	Commonly used solvents: stoddard solvent	None

Summary of Available Railyard Information

SWMU or AOC Identified by EPA	Approximate Location	Site Overview (narrative)	Recommended Action per RFA	ARRC Coment Regarding RFA	Releases and/or Environmental Issues	Potential Environmental Constituents	Investigation and/or Cleanup Actions Conducted
SWMU 24 Heavy Equipment Shop Former Drum Storage Area	E. End of Heavy Equip. Shop	Operational history: Heavy Equipment Shop built in 1949; start date of unit not know, but operational during 1991 compliance audit; not active during VSI. This SWMU was located in foyer of the Heavy Equip. Shop, and consisted of concrete-floored drum staging area. As observed during VSI, area lacked secondary containment other than concrete flooring.	RFA states that area has history of methylene chloride and cresol use - recommends testing soil and groundwater		1. Drums of sludge collected from nearby floor drain (SWMU 22) 2. Drums labeled "waste gas," source unknown and contents untested	1. Waste sludge and "waste gas" 2. See SWMU 22 description for analytical data regarding sludge composition.	None
SWMU 26 Engineering Shop Equipment Wash Area	W half of Engineering Shop	Operational history: OWS was constructed in 1989, active during VSI. Area has a strip floor drain (approx. 70-ft long) along middle of concrete floor, which drains to OWS, which drains to sanitary sewer.	RFA states that soil sampling should be conducted IF drain discharges to soil outside the building		1. Possibility of releases to soil or groundwater via piping from strip drain to OWS, or piping from OWS to sanitary sewer. 2. Possibility of releases to soil or groundwater if vessel integrity problems developed with OWS	drain collects wastewater and oil; wastestream not specifically charactierized.	none
SWMU 35 Welding Shop Waste Storage	Doll House	Operational history: Welding Shop (aka "Doll House") constructed 1968, active at least through VSI.	RFA states need to evaluate for potential historical releases to soil		1. 500-gal used oil tank 2. Former storage of herbicides 3. 2 drums of herbicide rinse waters 4. Dumpster containing unsaturated, used sorbent 5. Building provides only recorded release control	1. Used oil	none
SWMU 41 Railroad Tie Storage Area	NW of Warehouse #3	Operational history: start date unknown; area active during VSI. Used ties are stored at this location pending resale or off-site disposal.	RFA states need to test soil for potential releases from RR ties.	ARRC disagrees with the conclusion that there is a moerate potential for releases to soil. Attachment F is a report, *A Review of Toxicity Characteristic Leaching Procedure Testing of Railroad Crossties* , prepared by Resource Consultants, Inc., demonstrating the low potential for releases.	1. Creosote-treated ties 2. Ties storaged directly on ground - no release controls	creosote	none
SWMU 43 Boiler Plant	Boiler Shop / Plant	Operational history: start date uncertain, possibly after 1991; area active during VSI. Boiler Plant used to store oil and transfer oil from buckets to an oil collection tank located outside the building (later transfer to truck for off-site disposal).	RFA states need to test for releases to soil.		Management of 1. Used oil 2. Paint 3. Empty paint cans 4. PCB contaminated oil 5. Oily debris 6. Oil and water from blowdown sump Building serves as release control. Stormwater sewer drain located near the building.	Oil, PCBs	none

Summary of Available Railyard Information

SWMU or AOC Identified by EPA	Approximate Location	Site Overview (narrative)	Recommended Action per RFA	ARRC Coment Regarding RFA	Releases and/or Environmental Issues	Potential Environmental Constituents	Investigation and/or Cleanup Actions Conducted
SWMU 63 Heavy Equipment Shop 400 Gallon Dip Tank	east end Heavy Equip. Shop	Operational history: precise start date not known, RFA states pre 1973 (Heavy Equipment Shop constructed 1949); dip tank removed July 1991. Dip tank used for parts cleaning. Reported 400 gal capacity.	Historic methylene chloride and cresol use - test soil and groundwater		1. Housekeeping associated with tank use 2. Housekeeping regarding solvent storage 3. Use of associated floor drain (SWMU 22) / OWS Sump systems, and integrity of those systems 4. Management of sludge / residuals generated from dip tank use (see info re residuals characterization) 5. Integrity of tank and flooring - leak/spill prevention	1. Solvent utilized is 50% methylene chloride, 15% cresylic acid 2. Sludges / residuals from parts washing characterized with following constituents: methylene chloride, phenol, 2-methylphenol, 4-methylphenol, 2,4-dimethylphenol, cadmium, chromium, and lead	none
SWMU 64 Tank Car Steaming Area	W of Fuel AST	Operational history: became active fall of 1993, active during VSI. Located east of refueling area. Steam cleaning conducted prior to any work being performed on cars. Wastes collected via drip pans which drain via lined ditch to 750-gal OWS (SWMU 68). Oil conveyed to 2000-gal UST for temporary storage prior to being pumped to RR tank cars or to third party recyclers for offsite management.	Note as a potential source for future releases	ARRC disagrees with the conclusion in the report. Responsibility for the Steaming Area has been clearly designated to one individual. Operation of the area is checked on a regular basis. Historically, responsibility was not given to an individual. ARRC believes thtat this management change, in addition to the structural changes, will minimize the chances for a release.	1. Integrity of spray / drip collection system 2. Integrity of OWS and other storage vessels 3. Management practices during transfer of recovered oil for transport	waste oil and water	none
SWMU 65 Former Tank Car Steaming Area	approx. 200 ft SW of Westours	Operational history: active from 1952 and 1993, see details below (from RFA and LP-049-002) 1. 1952 - operations started 2. 1964 - liner installed beneath west end of area, drainage trough added between tracks, with drainage to existing storm water drain 3. 1969 - RFA states that OWS installed (SWMU 69); other document lists 1972 3. 1976 - ARMCO drip pans installed 4. January 1986 - OWS inspection revealed blockage, integrity problems, which were mitigated 5. June 1986 - tank car cleaning facility relocated (RFA states near Westours) 6. July 1986 - OWS decommissioned	SWMU has been removed. Evaluate risk of remaining contamination. Characterize and remediate if necessary.	The unit descriptions are confusing. The report is also confusing as to whether this SWMU is the same unit described in SWMU #69 (Former Tank Car Steaming Area Oil/Water Separator). Figure 2, Page 7, shows SWMU 65 and 69 as the same SWMU, which is incorrect and adds to the confusion. ARRC had several tank cleaning areas. The first general area is shown on Figure 2 of the report and labeled 65, 69. Any groundwater impacts from these area(s) are historical and were addressed with the installation of interceptor trenches. The second area, which was decommissioned in 1993, is in the vicinity of the Westours leasehold shown on Figure 2. See the discussion under SWMU #69 regarding the evaluation of this area.	1. Presence / integrity of spray / drip collection system 2. Presence / integrity of OWS and other storage vessels 3. Management practices during transfer of recovered oil 4. Management of solids / residuals captured by OWS 5. Management of effluent from OWS	1. Diesel fuel 2. Avaiation fuel 3. Aspahlt products 4. Pipeline flow enhancers 5. Fuel oils 6. Possible caustic wastes with heavy metals	1. Ten monitoring wells installed October 1986 2. Fifteen additional monitoring wells installed in May 1989 3. Oil collection gallery constructed July 1989

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Summary of Available Railyard Information

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SWMU 66 Former Temporary Tank Car Steaming Area	W of Fuel AST	Operational history: active while the current steam rack was being constructed (1993).	SWMU has been removed. Evaluate risk of remaining contamination. Characterize and remediate if necessary.	Although there was a release to the soil at the Former Temproary Tank Car Steaming Area, the area has been cleaned up. A copy of the test results demonstrating all soil impacted was provided to U.S. EPA.	1. September 1993 release of 100 gal of condensate 2. Integrity of spray / drip collection system 3. Integrity of OWS and other storage vessels 4. Management practices during transfer of recovered oil for transport	oil and wastewater	none
SWMU 67 Electric Shop Oil/Water Separator	west end of Electric Shop	Operational history: OWS was constructed in 1978, in use since 1979. Operational during VSI. OWS receives wastewater from the Electric, Diesel, and Heavy Equipment Shops. All floor drains in the Diesel Shop drain to this location. A sump (SWMU 13) and storage tank (SWMU 14) are associated with the OWS.	Potential source of soil and groundwater contamination.		1. Integrity of OWS vessel 2. Integrity of piping between floor drains and OWS, and between OWS and sumps / temporary storage tanks 3. Effluent from OWS reportedly drained directly to Ship Creek as of 1986; switched to municipal sewer connection by 1991 4. Management practices during transfer of recovered oil for transport 5. Management practices during removal of solids / residuals from OWS	waste oil and waste water	none
SWMU 69 Former Tank Car Steaming Area Oil/Water Separator	approx. 200 ft. SW of Westours	Operational history: installed in 1969, decomissioned 1993. Note that other sources indicated July 1986 decomission date (see description for SWMU 65). Located underground, associated with 500-gal UST (oil holding tank) and sump. Note substantial discrepency in stated capacity of oil holding tank (10,000-gal vs. 500-gal)	SWMU has been removed. Evaluate risk of remaining contamination. Characterize and remediate if necessary.	The report mistakenly identified the oil/water separator identified as SWMU 69 as one that was identified in the 1986 CERCLA report and that was discovered to be leaking in 1986. The oil/water separator that is SWMU 69 was in the Westours leasehold area until it was decommissioned in 1993 and replaced by the oil/water separator identifed as SWMU 68. The oil/water separator that was referenced by U.S. EPA and was discovered to be leaking is identified on Figure 2 report as SWMU 65. The data presented on page 28, Section 3.5.4, is work that was done in the vicinity of SWMU 69, within the Westours leasehold. The data is from an RZA AGRA report dated July 1992 and a report by Environmental Systems, Ltd. (ESL) dated August 1994. The ESL report of 1994 incorporates some of the findings of RZA's 1992 report and adds information from field activities in 1993 and 1994 in the same area. Both reports contain significant technical deficiencies and, in the case of the ESL reprot, some misinformation and erroneous conclusions. These include:	1. Integrity of OWS and other storage vessels 2. Management practices during transfer of recovered oil 3. Management of solids / residuals captured by OWS 4. Management of effluent from OWS	1. Diesel fuel 2. Avaiation fuel 3. Aspahlt products 4. Pipeline flow enhancers 5. Fuel oils	1. Ten monitoring wells installed October 1986 2. Fifteen additional monitoring wells installed in May 1989 3. Oil collection gallery constructed July 1989

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SWMU 69 Former Tank Car Steaming Area Oil/Water Separator (cont)				1. The laboratory RZA used in 1992 (Sound Analytical Services, Tacoma, WA) had a severe contamination problem, as evidenced by the high number of analytes in the lab blanks, at the time samples from the area were analyzed. Not all of the required blank data is accounted for in the appendices to the report, but the blanks that are reported had levels of toluene, methylene chloride (dichloromethane), 1,1-dichloroethen, and 1,3-dichlorobenzene at the same concentration ranges reported in the samples. The laboratory noted the contamination problem, but used an unacceptable method of "blank correction" to report the sample data (i.e., subracting the blank value of the reported constituent from the sample value). This procedure has been rejected by the U.S. EPA and reputable laboratories because of the potential for resultant negative sample results (less than zero), and because of the possibility of false positives in the sample data. RZA did not recognize that there was a laboratory problem in 1992, and presented the solvent data with sample results. ESL continued the error anc ARRC believes that, in the presence of the severe contaminat on volatiles is suspect and should be rejected. 2. RZA and ESL tested for metals in groundwater and several were reported. In both cases, they collected groundwater and did not filter the samples to get the sediment out, analyzed the water with metal-containing sediment, thenr eported the metals as contaminants. The shallow aquifer at ARRC is not potable, is subject to tidal influences, and is high in metals and minerals. Comparisons to drinking water MCLs are misleading and serve no purpose. 3. ESL neglected to note that in RZA's assessment of the property in 1992, and again during their own investigation of 1994, an abundance of data was presented that clearly indicates that petroleum hydrocarbons are coming on to the site from upgradient locations at the level of the water table. ESL failed to note the presence of upgradient sites with floating product to the north and east of the yard (e.g., EAFB) and neglected any discussion of RZA's references to upgradient sources from 1992. An assessment of the presence of petroleum hydrocarbons at the yard is not complete unless locations upgradient are considered.			

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				4. Neither RZA nor ESL obtained data from upgradient of the areas under investigation, although RZA notes the possiblity of upgradient sources of fuel residue. Despite the lack of upgradient data, ESL attempts to attribute fuel at the groundwater table to the oil/water separator, which is downgradient of most of ELS's sampling locations. The highest levels of fuel residue at the water table in 1992 were at the furthest upgardient data point (MW-4) within the leasehold area. ARRC does not agree that upgradient sources can be ruled out in the absence of upgradient data and that the impact, if any, of the separator be ascertained. 5. Soil that was high in fuel residue was removed and treated in 1993 as part of the Westours property improvement.			
SWMU 70 Former Blowdown Sump	W of Boiler Shop	Operational history: 1991 through August 1994. Used to collect oil and water from compressed air tanks. Capacity of 7.5 gal.	Determine if soil contamination remains, and if so test groundwater	Any soil contaminated from releases from this area has been removed. Sample results from the base of the excavation demonstrate any contaminated soil was removed. Further investigation is not needed.	1. Reported visibly stained soils (removed at some time in past)	waste oil, composition not known	visibly stained soil removed and replaced with clean soil; quantity of soil affected and specific area not documented
SWMU 72 Former Waste Oil Underground Storage Tank	W of Boiler Shop	Operation history: 1984 to 1993. Tank had capacity of 10,000 gal. Process stream involving tanks not described in RFA.	Investigate and/or remediate any residual soil/groundwater contamination	Two 10,000-gallon used oil tanks were excavated from the same pit. The tank and piping was determined to be in good condition and no evidence of leaks was observed. Results for samples collected at the base and side of the excavation are within cleanup levels established by the state, including the "volatile compounds" referenced.	1. Some contaminated soil reportedly left adjacent to Boiler Plant following excavation of tank 2. Potential for spills / releases associated with transfer of oil to / from tank (nothing documented) 3. Potential for releases from tank due to compromised tank integrity (nothing documented)	Confirmation soil samples contained: aresenic chromium lead TPH toluene xylenes	During tank excavation, approximately 7 cyds of material removed.
SWMU 73 Former Waste Oil Udnerground Storage Tank	W of Boiler Shop	Operation history: 1984 to 1993. Tank had capacity of 10,000 gal. Process stream involving tanks not described in RFA.	Investigate and/or remediate any residual soil/groundwater contamination		1. Some contaminated soil reportedly left adjacent to Boiler Plant following excavation of tank 2. Potential for spills / releases associated with transfer of oil to / from tank (nothing documented) 3. Potential for releases from tank due to compromised tank integrity (nothing documented)	Confirmation soil samples contained: aresenic chromium lead TPH toluene xylenes	During tank excavation, approximately 7 cyds of material removed.

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Summary of Available Railyard Information

SWMU or AOC Identified by EPA	Approximate Location	Site Overview (narrative)	Recommended Action per RFA	ARRC Coment Regarding RFA	Releases and/or Environmental Issues	Potential Environmental Constituents	Investigation and/or Cleanup Actions Conducted
AOC 1 Refueling Area	ajacent to S side of Electric Shop	Operational history: constructed 1978, and in use at time of VSI. Facility includes metal drip pans between tracks, which drain to lined open ditch, which conveys materials to an OWS (SWMU 67).	Conduct additional soil/groundwater sampling		1. Oil staining observed on ground during VSI 2. Reported releases (see 4th column to right)	Contaminated soil contained TPH DRO BTEX lead	Approximately 245 tons of contaminated soil removed from beneath south track (October 1993).
AOC 2 Former Refueling Area	at AST	Operational history: start date not reported, stop date 1978. Presense of or types of containment devices not known.	Conduct additional soil/groundwater sampling		1. Spills of diesel fuel are reported to have occurred, however, no details are known.	Nearby groundwater monitoring wells C-7 and C-8 contained elevated levels of BTEX and TPH	Soil removed from this area was used for construction of roads and parking lots.
AOC 3 Above Ground Storage Tank	at AST	Operational history: 74,700-gal capy tank constructed prior to 1963, and in operation during VSI. Associated piping installed in mid 1970s. Tank contained within lined concrete and steel secondary containment.	Conduct additional soil/groundwater sampling		1. Reported release of approx. 600 gal of diesel fuel at pumphouse, with 150- to 200-gal released onto roadway (October 1991)	Nearby groundwater monitoring wells C-2, C-7, and C-8 contained elevated levels of BTEX and TPH	no information
AOC 6 Former Gasoline UST (table incomplete)	Near intersection of Whitney Rd and N Post Rd; suspected address = 1201 E Whitney Rd.	Operational history: no start/finish dates in RFA, will require further research. SWMU is 1,000-gal gasoline UST. Located near the GSA Truck Shop.	Determine if UST has been removed				
AOC 7 Former Heating Oil UST (table incomplete)	Not Known!	Operational history: utilized between 1970 and 1991. SWMU is UST of unknown capacity used for storage of heating oil.	Investigate and/or remediate any residual soil/groundwater contamination		confirmation soil samples contain elevated BTEX; surface soil sample contained PCBs		

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Appendix D

Leased Property Site Summary

(Revised February 1, 2005)

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-002**		
ARRC Contract No.	**1664 (Terminated/Bankruptcy) / 8717**		
EPA Site Name	Consolidated Freightways Corporation		
Address	801 W. 1st Avenue		
Site Overview (narrative)	Site leased for warehouse, office, storage yard, and garage functions (freight distribution services). Activities associated with fleet maintenance generate waste petroleum products which were managed on site.		
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 2-1: Contaminated Soil Piles - Several piles of contaminated soil were observed at the site during 1992. Facility personnel reported that these soil piles were the result of an UST removal at the site. No soil piles were observed at the site during the VSI. SWMU 2-2: Accumulation Tank for Used Oil, Antifreeze, and Solvent - Used oil and antifreeze generated during truck maintenance is accumulated in a 500-gallon above ground storage tank located in the shop area. The tank is periodically pumped out and disposed of. The tank is located under cover and over a concrete floor that drains to an oil/water separator. Tank in good condition. SWMU 2-3: Oil/Water Separator - Floors in the truck repair shop drain to an oil/water separator that is located underground within the shop. Sludge generated from the system is removed periodically. Wastewater from the system is routed to the city sewer. Analytical results not available. Not known whether this sludge is considered hazardous waste.		
ARRC Comments Regarding RFA Description	Correction - Freight arrives by truck not steam ship. SWMU 2-1 ADEC files show soil removal and site closure with No Further Action letter February 23, 1993. Adding this site is duplicative and unwarranted.		
Documented Releases	Response action associated with leaking piping for 6,000-gallon diesel UST west of warehouse (March 1989). Approximately 666 cyds of contaminated soil excavated and stockpiled (June 1989).		
Summary of Analytical Data Results		**Soil ppm**	**Groundwater ppb**
	DRO	12-12000	580-1000
	GRO	28-6200	12-350
	BTEX	0.039-460	Not Detected
Investigation and/or Cleanup Actions Conducted	Phase 1 Contamination Investigation (1989). Diesel / Gasoline UST Contaminated Soils Thermal Remed. Project Report (1992). NFA letter from ADEC dated February 24, 1993. Phase 1 ESA (2004).		
Agency Lead and Closure Status	ADEC - Site closure (USTs) provided in NFA letter dated February 1993.		

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-002
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Garrison Fast Freight Operations: Unknown, assume warehouse, office, storage yard, garage site Start Date: Pre-1957 (exact unknown) Stop Date: 4/11/1957 Garrison Fast Freight, a division of Consolidated Freightways, Inc. Operations: Warehouse, office, storage yard, garage site Start Date: 4/1/1957 Stop Date 10/1/1958 Freightways Terminal Co. Operations: Same Start Date: 10/1/1958 Stop Date 4/1/1994 Consolidated Freightways of Delaware, Inc. Operations: Same Start Date: 4/1/1994 Stop Date: 11/4/2003 (lease rejected in bankruptcy) Subtenant: Walter Arnett (d/b/a Arnett Truck Repair) (portion of building only) Operations: Truck repair Start Date: 12/2002 Stop Date 2/1/2004 Vacant: 1/2004 to 2/1/2004 Spenard Builders Supply, Inc. Operations: Building supply warehouse and distribution Start Date: 2/1/2004 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-003**		
ARRC Contract No.	**1754 / 7990 / 8750**		
EPA Site Name	Williams Alaska Petroleum, Inc.		
Address	1076 Ocean Dock Road		
Site Overview (narrative)	Site located east and west of Ocean Dock Road. Lease originated by Unocal in 1959; Unocal operated a petroleum terminal, bulk fuel storage and distribution facility, asphalt plant, and topping plant. Product delivery accomplished via rail tank cars. Portions of the facility were sold to MAPCO Alaska Petroleum, Inc. in 1985 and 1988. The northern portion of the site has been leased to multiple tenants for barge landing, cargo storage, marine repair, and barge support services.		
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 3-1: Railcar Fuel Unloading Area - Spill pans under tracks. Runoff drained from pans to SWMUs 3-2, 3-3, and 3-4. No discussion of releases to the environment. SWMU-3-2: Sump and Lift Station for Stormwater/Spill Catchment System - Runoff from SWMU 3-1 is directed to underground sump and associated 1,000-gallon lift station. Liquids pumped to SWMU 3-3. No discussion of releases to the environment. SWMU 3-3: AST for Stormwater/Spill Catchment System - A 20,000-gallon AST for temporary storage of water from SWMU 3-2. Discharges to SWMU 3-4. No discussion of releases to the environment. SWMU 3-4: Oil/Water Separator - New oil/water separator installed in 2000 for treatment of stormwater from SWMU 3-3. Older system was located in same area. Wastewater from system is discharged to the City sewer.		
ARRC Comments Regarding RFA Description	There is no basis for characterization of old drum storage area as a "hot spot." ADEC file search indicates active involvement of ADEC on this facility. Adding this site is duplicative and unwarranted.		
Documented Releases	Multiple releases have been documented, and have been tabulated in a recent groundwater monitoring report. See Table 1 in Groundwater Assessment, 1076 Ocean Dock Road, Anchorage, Alaska, by Shannon and Wilson, Inc., January 2003.		
Summary of Analytical Data Results		**Soil ppm**	**Groundwater ppb**
	VOC	0.005-8.44	4.57-55
	SVOC	0.051-102	10-4,800
	TPH	0.12-27,000	140-80,000
	DRO	2 - 805,000	100-65,400
	GRO	0.001-37,000	6-98,000
	BTEX	0.00058-4400	0.2- 245,000
	Chlorinated Solvents	0.007-0.05	Not Detected
	Metals	0.009-220	2.7-2,000
	PCB	0.042-0.58	Not Detected

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-003
Investigation and/or Cleanup Actions Conducted	Gasoline Spill Cleanup (July 1991). JP-4 Spill Cleanup (August 1991). Disposal of JP-4 Waste Soils from MAPI Anchorage Terminal Facility (March 1991). Geotechnical and Environmental Report (December 1991). Site Assessment Chugach Electric Association Sub-Lease - 1200 Ocean Dock Road (March 1992). Phase II Site Assessment Chugach Electric Association Sub-Lease (May 1992). New Bulk Fuel Storage Tank Site Cleanup (November 1992). Final Report Anchorage Terminal Baseline Site Assessment (April 1994). Environmental Site Assessment and Clean-up Report, Volume I and II, Chugach Electric Association - 1200 Ocean Dock Road (March 1996). Groundwater Assessment Report (January 2003). Soil Screening and Sampling Report, Rail Track and Pipeline Construction Report (January / February 2003). Groundwater Assessment, Flint Hills Resources Alaska, Anchorage Terminal (June 2004).
Agency Lead and Closure Status	The site is actively managed by Williams Alaska, Inc. and ADEC.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** RE: South Portion of Site (ARRC Contract No. 1754) Union Oil Company of California (UNOCAL) Operations: Bulk fuel terminal Start Date: 4/10/1959 Stop Date: 4/1/1988 Subtenant: Oceaneering International, Inc. (portion) Operations: Storage for marine repair and construction business Start Date: 1/1/1972 Stop Date: 9/1979 MAPCO Alaska Petroleum, Inc. Operations: Same Start Date: 4/1/1988 Stop Date: 2/5/1999 Subtenant: Tanana Petroleum (later named Petro Star) (portion) Operations: Outside storage and office for packing of lube oil from bulk tanks Start Date: 4/1/1994 Stop Date: 12/31/2001 Williams Alaska Petroleum, Inc. Operations: Same Start Date: 2/5/1999 Stop Date: 3/31/2004 Flint Hills Resources Alaska, LLC Operations: Same Start Date: 3/31/2004 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-003
Lease Property History & Site Use (Continued)	**Tenants, Operators or Other PRPs:** RE: North Portion of Site (ARRC Contract No. 7990) Oceaneering International, Inc. (fka Hightide Marine) Operations: Marine repair and construction business Start Date: Unknown Stop Date: 9/30/1979 Chugach Electric Association, Inc. Operations: Support facility for electric co-op Start Date: 10/1/1979 Stop Date: 9/30/1999 Subtenant: Pickworth & Associates Operations: Marine cargo transloading, minor maintenance, and marine repairs Start Date: 3/15/1984 Stop Date: 3/14/1986 Williams Alaska Petroleum, Inc. Operations: Storage and distribution of petroleum products Start Date: 1/1/2001 Stop Date: 3/31/2004 Flint Hills Resources Alaska, LLC Operations: Same Start Date: 4/1/2004 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-006**
ARRC Contract No.	**1835 / 7854 / 8624**
EPA Site Name	Joe's Body Paint and Frame
Address	1648 Post Road
Site Overview (narrative)	No environmental reports, records, or documents have been obtained for this property. The property is adjacent and west of LP-122, Jackovich Industrial, and has been operated since 1948 by multiple tenants for warehousing, concrete product manufacturing, freight handling, general and roofing contractor tasks, and automobile frame repair and salvage. The RFA states that floor drains and sanitary sewer are connected to an on-site underground holding tank and leach field.
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 6-1: Satellite Accumulation Area - Satellite Accumulation Area historically used to accumulate paint waste and waste acrylic paint thinner in a drum. It was located in the main front building. During VSI, it was noted this area is no longer used to manage wastes. SWMU 6-2: Waste Accumulation Area - A waste accumulation area was historically located behind the main building, adjacent to the property's south fence. Seven containers were observed that store oil, waste paint, and antifreeze. Some containers were on pallets, and some were on the ground. Stacked car batteries noted on pallet. Containers not labeled properly. Area no longer used to manage wastes. SWMU 6-3: Back Area of Property - Various debris, scrap metal, and abandoned materials were observed in the back yard area of the property. Two 5-gallon pails of plastic cement were present. Three severely rusted barrels were observed in shed. Potential releases to environment from a brownish-black, semi-solid material that was leaking from a hole in one of the barrels. SWMU 6-4: Waste Thinner Accumulation and Recycling Area - Paint mix room is an enclosed, concrete room located within the front shop that accumulates waste paint thinner in a 55-gallon drum and recycled in an adjacent distiller. Area in good condition and no major leaks or spills were noted. SWMU 6-5: Used Oil and Antifreeze Accumulation Area - Used oil and antifreeze are currently accumulated in two drums stored over concrete flooring within the front shop. Drums in good condition. SWMU 6-6: Wastewater Collection System - Wastewater from the back shop drains to an on-site leach field. Wastewater and sewage from the front shop drains first to a 500-gallon holding tank, and then presumably to an on-site leach field.
ARRC Comments Regarding RFA Description	No additional comments.
Documented Releases	None.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	Not Available / Not Available
Investigation and/or Cleanup Actions Conducted	The RFA states that, based on a May 17, 2000 CEI, a Notice of Violation was issued to the property for reported violations, including containers labeling, maintenance of appropriate records, notification as a waste transporter, and waste manifest use.
Agency Lead and Closure Status	Not documented.

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-006
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Carl B. Warren (d/b/a Spokane Concrete Pipe Co.) Operations: Manufacturing concrete products, warehouse, living quarters, office Start Date: 8/29/1951 Stop Date: 7/1/1959 L.J. Osky Weeda Operations: Wholesale paper & hotel supply, handling rail-hauled freight Start Date: 7/1/1959 Stop Date: 11/1/1988 Estate of Osky Weeda Operations: Warehouse Start Date: 11/1/1988 Stop Date: 5/23/1989 David Bates (d/b/a AAA Alpine General Contractors / AAA Alpine Roofing & Property Maintenance) Operations: General & roofing contractor Start Date: 5/23/1989 Stop Date: 9/27/1995 Joseph M. Casassa d/b/a Joe's Body Paint & Frame Operations: Auto Frame Repair (no painting) Start Date: 9/27/1995 Stop Date: 7/3/2000 Subtenant: Anchorage Restaurant Supply (Bob Richards) Operations: Restaurant Supply Start Date: 1998 Stop Date: 1998 Joseph Michael Casassa Jr. Trust B (d/b/a Joe's Body Paint & Frame) Operations: Vehicle tear down Start Date: 7/3/2000 Stop Date: 5/23/2003 AASL General Contracting Corp. Operations: Office/warehouse Start Date: 5/23/2003 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-011**
ARRC Contract No.	**2579**
EPA Site Name	Auto Electric Sales & Services
Address	2217 Post Road
Site Overview (narrative)	Alternator repair shop. No open RFA issues or reported contamination problems. No environmental reports, records, or documents have been obtained.
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 11-1: Used Oil Accumulation Drum - A 55-gallon drum, located inside building with concrete floor. SWMU 11-2: Wastewater Collection System - Floor drain noted. Facility personnel were unsure whether or not an oil/water separator was associated with drain.
ARRC Comments Regarding RFA Description	
Documented Releases	None.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	Not Available / Not Available
Investigation and/or Cleanup Actions Conducted	None.
Agency Lead and Closure Status	Not Documented.
Lease Property History & Site Use	**Tenants, Operators or other PRPs:** King Building Supply Operations: Retail, warehouse, and storage for lumber and building materials Start Date: 10/15/1951 Stop Date: 5/15/1960 Harry M. & Lillie Mae Hathhorn Operations: Unknown Start Date: 5/16/1960 Stop Date: 5/16/1964 Auto Electric Sales & Service, Inc. Operations: Alternator Repair Shop Start Date: 5/16/1964 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-014**
ARRC Contract No.	**2854**
EPA Site Name	Curtis Josaitis and Daniel Helton / USCS and Motor Doctor
Address	1425 Spar Avenue
Site Overview (narrative)	Two operations recently occupied the site, Urethane Contracting Supply and Consulting (UCSC), and The Motor Doctor. Management of process materials and characterization of waste stream is an issue for UCSC. Management of used oil (and other wastes) is an issue for Motor Doctor parcel.
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 14-1: Empty Drum Storage Area - Empty drum storage area observed along the western perimeter of the site. Over 50 empty drums were stacked. No release controls, such as concrete flooring, were present in this area. SWMU 14-2: On-Site Dumpster - All wastes generated at the site are disposed of in the on-site dumpster. Wastes include residual product, cardboard saturated with product, and empty drums. Wastes not sampled prior to disposal, although likely hazardous constituents present. SWMU 14-3: Used Oil, Antifreeze, and Solvent Accumulation Area - An accumulation area for used oil, antifreeze, and solvent was observed along the outside of the western wall of the main building. A 500-gallon tank for accumulating used oil was noted and had a catch pan for collecting drips and spills. AOC 14-1: Area of Soil Excavation - Soil excavation activities were conducted at the site. However, confirmatory samples were not collected during the recent soil excavations conducted to remove soil visibly stained with oil.
ARRC Comments Regarding RFA Description	AOC 14-1 The facilty operator informed ARRC that they have addressed the stained soil
Documented Releases	During EPA site inspection, large area of oil soaked soil identified along north and west sides of building occupied by Alaska Motor Doctor (April 2001).
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	DRO 65-218 / Not Available
	RRO 34.3-791 / Not Available
Investigation and/or Cleanup Actions Conducted	1. Stained soil north of main building excavated, approximate dimensions of 6 feet wide, 200 feet long, as much as 4 feet deep. 2. EPA issued NOV to Motor Doctor for 3 violations (2001): (1) failure to properly label containers and AST containing used oil; (2) observed area of oil-impacted soils along west and north sides of building and slow releases from 55-gallon containers; and (3) application of used oil as a dust suppressant. 3. Three soil samples collected from site, detecting DRO (ranging from <11 to 218 mg/kg), and RRO (ranging from 34.3 to 791 mg/kg) below their respective Method Two cleanup levels (250 and 11,000 mg/kg).
Agency Lead and Closure Status	EPA lead on waste oil management issues.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Wagner & Associates Inc. Operations: Warehouse and storage Start Date: 3/1/1963 Stop Date: 6/30/1965 A&P Investment Company (subsequently John Horjes Testamentary Trust & Marilyn Horjes Trust) Operations: Warehouse and storage Start Date: 7/1/1965 Stop Date; 1/1/1988

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-014
Lease Property History & Site Use (Continued)	**Tenants, Operators or Other PRPs:** Curtis Josaitis Operations: Warehouse Start Date: 1/1/1988 Stop Date: 11/15/1989 Curtis Josaitis and Daniel J. Helton (dba Bear Mountain Investments) Operations: Warehouse Start Date: 11/5/1989 Stop Date: To Present Subtenant: Urethane Contractors Supply & Consultants Inc. Operations: Office, warehouse, shop Start Date: 4/1/1990 Stop Date: Unknown (1992?) Subtenant: Samuel Lowdermilk (d/b/a Alaska Motor Doctor) Operations: Automotive Repair Start Date: 1/8/1991 Stop Date: 7/2001

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-015**
ARRC Contract No.	**3107 / 8226**
EPA Site Name	Inlet Construction
Address	1833 Post Road
Site Overview (narrative)	No environmental reports, records, or documents have been obtained for this property. The property is on the north side of Post Road, across from LP-045, Newberry Alaska, Inc., and has been operated since 1967 by a single tenant as offices for general contracting business.
RFA SWMUs or AOCs as Identified by EPA and Description	None - NA.
ARRC Comments Regarding RFA Description	There are no SWMUs or AOCs at this site. RFA findings are inconsistent with Appendix A of RFA. Further action is not warranted.
Documented Releases	None.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	Not Available / Not Available
Investigation and/or Cleanup Actions Conducted	None.
Agency Lead and Closure Status	Not documented.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** S. Marci Construction Co. Operations: General contracting Start Date: 1/1/1952 Stop Date: 6/30/1966 Subtenant: L. H. Doolittle Transportation Co., Inc. Operations: Unknown Start Date: About 10/27/1959 Westco Constructors Operations: General contracting Start Date: 7/1/1966 Stop Date: 12/31/1966 Cherrier and King c/o Inlet Co. Operations: Offices for general contracting business; office and warehouse Start Date:1/1/1967 Stop Date: 8/1/2001 Cherrier and Cherrier Operations: Construction, office and storage Start Date: 8/1/2001 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-017**
ARRC Contract No.	**4135 / 8586**
EPA Site Name	Polar Equipment, Inc.
Address	2116 Post Road
Site Overview (narrative)	The property is on the south side of Post Road, adjacent to LP-018, LH Construction, and has been operated since 1947 by multiple tenants for wholesale and retail of door and roofing products; electrical contracting; warehousing and storage for electrical engineers & contracting; and snow machine distribution.
RFA SWMUs or AOCs as Identified by EPA and Description	None - NA.
ARRC Comments Regarding RFA Description	There are no SWMUs or AOCs at this site. RFA findings are inconsistent with Appendix A of RFA. Further action is not warranted.
Documented Releases	None.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	Not Available / Not Available
Investigation and/or Cleanup Actions Conducted	500-gallon gasoline UST removed from site; reportedly no evidence of release (c. 1991). "Cabin Sink" and "Cabin Wall" samples submitted June 2002 for general water quality and asbestos analysis, respectively; no anomalous results.
Agency Lead and Closure Status	UST Closure status "Not Listed" on ADEC UST database.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Garrison Mills, Inc. Operations: Not specified (lease not located) Start Date: 12/1/1947 Stop Date: 11/30/1950 M.F. Goggans Operations: Wholesaling & retailing of glass sash & door and roofing products Start Date: 12/1/1950 Stop Date: 9/30/1952 C.F. Lytle and Green Construction Co. Operations: Not specified (lease not located) Start Date: 10/1/1952 Stop Date: 9/30/1958 Don F. Conover Operations: Warehouse - commercial renting Start Date: 10/1/1958 Stop Date: 7/31/1965

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-017
Lease Property History & Site Use (Continued)	**Tenants, Operators or Other PRPs:** Subtenant: W.R. Grasle Company Operations: Electrical contractor Start Date: 8/1957 Stop Date: 8/1/1965 W.R. Grasle Company Operations: Warehouse & storage for electrical engineers & contracting Start Date: 8/1/1965 Stop Date: 10/31/1973 Polar Equipment Company Operations: Snow machine Dealership Start Date: 11/1/1973 Stop Date: 3/31/2003 Post Road Properties I, LLC Operations: Warehouse Start Date: 3/31/2003 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-018**
ARRC Contract No.	**4197 / 8824**
EPA Site Name	L.H. Construction
Address	2132 Post Road
Site Overview (narrative)	Site utilized primarily for warehouse and storage, metal fabrication, paint storage, and heavy construction equipment storage / maintenance. Located downgradient from north Ship Creek Bluff and Elmendorf AFB. Soil impacts encountered, contaminated soil removed. ADEC database indicates potential groundwater impacts at site.
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 18-1: Used Oil, Antifreeze, and Spent Solvent Accumulation Area - Used oil, antifreeze, and spent stoddard solvent are accumulated in 55-gallon drums stored inside the main building. Storage area is located inside an enclosed building and over concrete floors. Drums were observed to be in good condition. SWMU 18-2: Misc. Containers Along Western Border of Property - Various containers of unknown contents were observed along the western border of the property.
ARRC Comments Regarding RFA Description	No additional comments
Documented Releases	1. Construction equipment are repaired / maintained at the site, generating waste oil, antifreeze, and spent solvent. 2. Apparent releases to environment associated with storage of various containers along western boundary of the site. 3. Two 500-gallon gasoline USTs removed from service, by Alaska Plumbing and Heating Wholesale, dates approximately 1986 and 1996.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	Not Available / Not Available
Investigation and/or Cleanup Actions Conducted	Two 500-gallon gasoline USTs removed from service, by Alaska Plumbing and Heating Wholesale, dates approximately 1986 and 1996.
Agency Lead and Closure Status	Closure status not listed on ADEC UST database. Site listed as inactive in ADEC contaminated sites database.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Garrison Mills Inc. Operations: Not Specified (sash & door?) Start Date: 12/1/1947 Stop Date: 10/31/1953 Alaskan Plumbing & Heating Supply Co., Inc. Operations: Storage yard & warehouse Start Date: 11/1/1953 Stop Date: 10/31/1962 Northland Pipe & Supply Co., Inc. Operations: Warehouse and storage site Start Date: 11/1/1962 Stop Date: 10/31/1972 Hickel Investment Company Operations: General contractor, property management Start Date: 5/9/1972 Stop Date: 4/19/1974

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-018
Lease Property History & Site Use (Continued)	**Tenants, Operators or Other PRPs:** Alaska Plumbing & Heating Co., Inc. Operations: Warehouse and storage Start Date: 5/1/1974 Stop Date: 10/1/1988 Leland E. Jeffs (d/b/a E.J. Company) Operations: Warehouse Start Date: 10/1/1988 Stop Date: 9/16/2004 Subtenant: Steel Metal Fabrication Shop (not defined) Operations: Steel fabrication Start Date: Unknown Stop Date: Unknown (observed in 1993) Subtenant: Painting Company (Not defined) Operations: Paint and equipment storage Start Date: Unknown Stop Date: Unknown (observed in 2001) L.H. Construction, Inc. Operations: Warehouse Start Date: 9/16/2004 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-019**		
ARRC Contract No.	**4392**		
EPA Site Name	Tesoro Alaska Petroleum		
Address	1321 Anchorage Port Rd. (note - RFA provides address of 1522)		
Site Overview (narrative)	Site consists of office / warehouse / shop structures, and 8 ASTs and associated piping / pumps for storage and loading petroleum products. Product arrives via pipeline, is loaded / distributed via truck transport. Files indicate multiple releases of gasoline and diesel from facility, located on Cook Inlet shoreline. As reported in the RFA, no OWS system in place to manage stormwater / surface water runoff. Site soil and groundwater impacted by dissolved and free-phase petroleum hydrocarbons.		
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 19-1: Oily Waste Accumulation Area - A 55-gallon drum, located inside shop building with concrete floor. Used to store wastes such as: oily rags, debris, and used PPE. AOC 19-1: Soil Treatment Area - In 1990, soils containing elevated TPH were treated and then graded and compacted into the floor of the tank containment area. Low level TPH contaminated soils were treated on-site. File materials do not indicate whether confirmation sampling was performed. AOC 19-2: Area of Pipeline Leak - In 1989, soil was excavated and free product was recovered from a diesel cargo pipeline leak. Summer of 1990, approximately 150 gallons of residual diesel fuel was recovered using a pump system.		
ARRC Comments Regarding RFA Description	Conditional approval of the water quality monitoring plan was granted by ADEC to Tesoro in 2000. The site is actively managed by ADEC. Adding this site is duplicative and unwarranted. AOC 19-1 ADEC documented soil treatment with ADEC approval. Therefore, it is not an area of concern. Soil concentrations are below ADEC screening levels		
Documented Releases	Releases associated with former railcar filling operations (1970s). Pipeline leak east of Tank 7 released diesel and JP-4 (1989). More than 5,000 gallons jet fuel released following failure of a pipeline flange (April 2000). ADEC contaminated sites database reports that releases entered sewer line adjacent to Bulk Plant.		
Summary of Analytical Data Results		**Soil ppm**	**Groundwater ppb**
	VOC	Not Analyzed	Not Detected
	SVOC	Not Analyzed	0.049-53
	TPH	46-150	7600-7600
	DRO	9.9-53,000	170-7,000,000
	GRO	0.29-290,000	83.5-170,000,000
	BTEX	0.003-4730	0.5-24,000,000
	Chlorinated Solvents	Not Analyzed	Not Analyzed
	Metals	9-12	Not Analyzed

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-019
Investigation and/or Cleanup Actions Conducted	1. February 1975, 3,000 gallons of JP-4 recovered from Tank No. 3 overfilling. 2. May 1989, 60 cyds of impacted soil excavated from around leaking diesel line. Diesel recovery efforts from groundwater initiated with open excavation. 3. Site Investigation report completed (1989). 4. Site Characterization Workplan, including truck rack, approved by ADEC (1989). 5. Interim Removal Action (dispose 375 cyd soil) approved by ADEC (1989). 6. Application to install "additional" recovery well received by ADEC (1989). 7. Approved Interim Action, removal of 670 cyd impacted soil (1990). 8. Site Closure approved by ADEC (1992). 9. Site Closure and ACLs rescinded by ADEC due to lack of risk assessment evaluating impacts of soil / groundwater contamination, which was not completed (1999). 10. ADEC requests surface water sampling and installation of groundwater monitoring wells (1999). 11. Jet fuel release, estimated in the range of 4,000 to 5,000 gallons - 3,789 gallons recovered (2000). 12. ADEC approval of Water Quality Monitoring Plan dated April 14, 2000 (2000).
Agency Lead and Closure Status	ADEC requires ongoing groundwater monitoring program at site. Program implemented with numerous groundwater and surface water monitoring locations, apparently on semi-annual basis.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Tesoro-Alaska(n) Petroleum Co. (northern portion) Operations: Bulk terminal Start Date: 7/1/1969 Stop Date: To Present Northern Gas & Oil Co., Inc. (southern portion) Operations: Petroleum receiving facility; warehouse and storage Start Date: 7/8/1964 Stop Date: 6/6/1976 Tesoro-Alaska(n) Petroleum Co. (southern portion) Operations: Petroleum receiving facility; warehouse and storage Start Date: 6/6/1976 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-020**		
ARRC Contract No.	**4397 / 8683**		
EPA Site Name	Robert A. Carlson / Wholesale Distributors of Alaska		
Address	2548 Post Road		
Site Overview (narrative)	Site consists of office / retail and warehouse facilities. Tenant list indicates past operations primarily warehousing and storage, freight distribution, plumbing / heating / mechanical contracting.		
RFA SWMUs or AOCs as Identified by EPA and Description	None.		
ARRC Comments Regarding RFA Description	There are no SWMUs or AOCs identiifed for this site, it is an office/retail and warehouse structure. However EPA recommended the site for "further action". Such further action is not warranted.		
Documented Releases	None. No wastes other than office paper and cardboard currently are generated on site. Water supply well, screened to the (deep) confined aquifer, is located on site.		
Summary of Analytical Data Results		**Soil ppm**	**Groundwater ppb**
	DRO	Not Available	501-3520
	BTEX	Not Available	0.693-2.46
Investigation and/or Cleanup Actions Conducted	Water quality for water supply well has been analyzed in 2003 for DRO, GRO, RRO, VOCs, and metals - results were ND for organics, barium at 0.018 mg/L.		
Agency Lead and Closure Status	Note in file indicates that site would be conditionally exempt with submittal of analytical results from water supply well. Data collected 8/22/03 were summarized by Analytica Alaska, Inc. on 9/2/03 and submitted to Hart Crowser.		
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Chris Berg, Inc. & Associates Operations: Warehouse and storage yard Start Date: 7/1/1950 Stop Date: 1951 (portion); 1953 (remainder) J.C. Boespflug Construction Co. (portion) Operations: Warehouse and storage yard Start Date: 7/1/1951 Stop Date: 3/18/1959 Navarre Plumbing & Heating (portion) Operations: Plumbing & Heating Start Date: 6/8/53 Stop Date: 10/31/1954		

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-020
Lease Property History & Site Use (Continued)	**Tenants, Operators or Other PRPs:** Hart Plumbing & Heating (portion) Operations: Mechanical Contractors, warehouse, and storage site Start Date: 11/1/1954 Stop Date: 12/15/1959 Palmer G. Lewis Co. (portion) Operations: Building materials storage & wholesaling Start Date: 5/1/1959 Stop Date: 1/31/1973 Subtenant: Leroy's Pancake House (d/b/a Northern Fixtures & Vending) Operations: Not specified Start Date: 12/1/1970 Stop Date: 1/31/1973 Palmer G. Lewis Co. Inc. (portion) Operations: Warehouse & storage Start Date: 3/1/1960 Stop Date: 1/31/1973 Northern Enterprises, Inc. (all lots) Operations: Trucking, rail car unloading & storage Start Date: 2/1/1973 Stop Date: 6/30/1975 Robert A. Carlson (d/b/a Wholesale Distributors Alaska, Inc.) (all lots) Operations: Warehousing fireplaces Start Date: 7/1/1975 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-022**		
ARRC Contract No.	**4565**		
EPA Site Name	Municipality of Anchorage, Municipal Light & Power		
Address	1200 East First Avenue		
Site Overview (narrative)	Site is south of and adjacent to Ship Creek, with significant frontage along the creek. Power plant support facilities at the site include fuel storage tanks, storage shed, and switch yard. In 1964, in the range of 235,000 to 400,000 gallons of diesel fuel were released from a ruptured AST, located near intersection of Ingra St. and East First Ave. (an off-site location).		
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 22-1: Waste Storage Area - Waste storage area, paved, grouted, and covered by roof. Secondary containment is provided by a 6-inch berm. Middle vault contains a 500-gallon capacity for spill containment. Used oil and antifreeze are stored in this area. Area in good condition and no leaks or spills were observed. AOC 22-1: Storage Area for Creosote-Soaked Poles - Creosote-treated poles were stored on the ground in the eastern portion of the site in an area adjacent to Ship Creek. Releases of hazardous constituents to Ship Creek are possible in this location. AOC 22-2: Former Diesel "UST" Location - An aboveground diesel fuel tank ruptured as a result of an earthquake. Diesel-impacted soil and groundwater are present. Contamination extends off site to the banks of Ship Creek. Not known whether remedial action has been taken.		
ARRC Comments Regarding RFA Description	AOC 22-1: Not an area of concern as the normal use of power poles is direct placement into the ground and the RFA provides no evidence of release. AOC 22-2: Several investigations have been completed to evaluate the diesel residue remaining in the subsurface soil from releases that occurred during the 1964 earthquake and to evaluate remedial options.		
Documented Releases	Site is downgradient of location of ruptured diesel AST (caused by 1964 earthquake) and suspected to be impacted by resulting groundwater plume; no releases originating on site are known.		
Summary of Analytical Data Results		**Soil ppm**	**Groundwater ppb**
	VOC	0.02-0.03	2.1-37
	SVOC	Not Detected	0.03-5.53
	TPH	23-9080	200-9900
	DRO	0.12-28,000	100-139,000
	GRO	Not Analyzed	51.8-22,000
	BTEX	0.047-0.94	0.3-678,000
	Chlorinated Solvents	0.0031-0.38	3.3-33
	Metals	Not Analyzed	2.8-62.5
	PCB	0.03-73	16-23

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-022
Investigation and/or Cleanup Actions Conducted	1. Environmental Site Assessment conducted at 800 Ship Creek Ave, LP-055 (downgradient of this site). 2. Limited On-Site Characterization (1991). 3. Request to thermally treat low-level PCB soils communicated to ADEC (1992). 4. Field program to determine vertical / lateral extent of diesel contamination, and bench / pilot studies of biotreatability (1994-1995). 5. In response to ADEC, characterization of diesel contamination and migration (1996). 6. On- and off-site groundwater sampling event (1999). 7. ADEC requested work plan for groundwater monitoring, free-product recovery (well B-3), and assessment of impacts to Ship Creek (2004).
Agency Lead and Closure Status	ADEC lead, site actively managed (groundwater monitoring, efforts to recover free product).
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** City of Anchorage Operations: Power Plant site; in 1964 added area for future feeder lines out of existing switching structure Start Date: 9/1/1960 Stop Date: 4/20/1977 Municipality of Anchorage Operations: Warehousing, storage, and other Municipal activities Start Date: 5/1/1977 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-024**		
ARRC Contract No.	**4834 (Assigned) / 6097 (Permit)**		
EPA Site Name	Prescott Equipment		
Address	1924 Post Road		
Site Overview (narrative)	Site has been utilized for plumbing shop and metals salvage business. Located adjacent to and north of Ship Creek riparian area. Environmental assessment conducted 1998 indicated fuels, lubricants, PCBs, and metals impacts in soils, with fuel and lubricants present at concentrations requiring remediation, completed in subsequent phases.		
RFA SWMUs or AOCs as Identified by EPA and Description	None.		
ARRC Comments Regarding RFA Description	Conditions of No Further Action letter were met and work was completed in 2002 to address the concerns raised by EPA. Adding this site is duplicative and unwarranted.		
Documented Releases	None.		
Summary of Analytical Data Results		**Soil ppm**	**Groundwater ppb**
	VOC	Not Detected	0.05-40
	SVOC	0.0042-2.7	1-10
	DRO	5.28-29,900	207-5800
	GRO	0.2-244	Not Detected
	BTEX	0.02-44	0.5-2
	Chlorinated Solvents	Not Detected	1-1
	Metals	0.07-2250	0.2-6100
	PCB	0.271-1.44	Not Analyzed
Investigation and/or Cleanup Actions Conducted	All investigations appear to have been initiated / managed by Prescott. 1998, Phase I and Phase II ESA, conducted by Prescott, as a condition of terminating their lease (RFA). 1999, Phase I Site Characterization Report. 1999, Phase II Site Characterization Report. 1999, Phase III and IV Soil Excavation and Confirmation Sampling Report. 2000, Phase V Final Report.		
Agency Lead and Closure Status	ADEC lead. Correspondence between ADEC and Prescott Equipment indicates that ACLs were established and met, and that a NFA determination was made. ADEC No Further Action/Institutional Control Letter dated June 23, 2003 documents that the site has been remediated to applicable cleanup levels.		
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** A.B.C. Roofing, Inc. Operations: Warehouse and storage, roofing contractor Start Date: 8/1/1951 Stop Date: 8/1/1958		

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-024
Lease Property History & Site Use (Continued)	**Tenants, Operators or Other PRPs:** Subtenant: Paul Fackler Operations: General contractor Start Date: 6/25/1956 Stop Date: 8/1/1958 Holaday & Edworthy, Inc. Operations: Sheet metal and roofing contractor Start Date: 1958 Stop Date: 1962 (lease not located) Urban Plumbing & Heating Co. Operations: Warehouse and storage Start Date: 2/1/1962 Stop Date: 2/1/1977 Urban Associates, Inc. Operations: Warehouse and storage for mechanical contractor Start Date: 2/1/1977 Stop Date: 1/31/1978 Falcon Incorporated Operations: Warehouse and storage Start Date: 2/1/1978 Stop Date: 12/21/1990 Jack P. Hendrickson (d/b/a Prescott Equipment) Operations: Storage Start Date: 12/21/1990 Stop Date: 8/26/2004 Subtenant: Bob Hopper Operations: Scrap Start Date: Unknown Stop Date: Unknown (observed in 1997) 1940 Post Road, LLC (portion) Operations: Storage Start Date: 8/26/2004 Stop Date: To Present ESS Support Services Operations: Container storage for catering Start Date: 5/10/2004 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-025**
ARRC Contract No.	**4872**
Site Name	Chevron USA Products Co.
Address	459 W. Bluff Road
Site Overview (narrative)	Facility has been operational since the 1940s and is a fuel storage terminal comprised of ASTs, pipelines, railcar unloading rack, and warehousing features. Also includes pipeline for off-loading offshore tankers.
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 25-1: Catchment System for Railcar Unloading Area - Catch system that consists of double contained fiberglass modules is located underneath the railcar unloading rack for spill containment. SWMU 25-2: All stormwater from the site is directed to the oil/water separator located underground in the northwest corner of the site. A 10,000-gallon double walled holding tank is associated with this system. SWMU 25-3: Oily Waste Accumulation Area - A 55-gallon drum located within a shed over an asphalt floor is used to collect oily wastes such as used absorbent pads. Unit in good condition and no leaks or spills were noted. SWMU 25-4: A mobile 500-gallon tank and a stationary double walled 10,000-gallon tank are used to temporarily store materials generated during tank cleanout operations. The 10,000-gallon stationary tank is located on concrete under a roof, and is surrounded by floor drains which connect with the oil/water separation system. SWMU 25-5: A pile of soil contaminated with petroleum hydrocarbons is located in the southeast corner of the site. The pile is located along the Bluff Road boundary. The pile is covered with plastic sheeting and turned once a year to promote biodegradation. SWMU 25-6: Inlet Petroleum Company generates several drums per month of used oil during sampling activities. The used oil is stored in drums inside the enclosed, concrete warehouse. SWMU 25-7: Oily Rag Accumulation Drum - Oily rags generated by Inlet Petroleum Company are collected in a drum located in a shed at the northern boundary of the site and picked up weekly for cleaning.
ARRC Comments Regarding RFA Description	A groundwater handling plan and cleanup plan have been approved by ADEC for the site. Adding this site is duplicative and unwarranted.
Documented Releases	A March 31, 1992 fax transmittal between Chevron USA and MAPCO describes documented releases ocurring between 1978 and 1992. More recent data have not been identified. Pump over of tank in terminal yard released 75 gallons Jet B (March 1978). Tank car run over released 15 gallons Jet A-50 (December 1978). Hose burst released 2,000 gallons Jet A-50 (August 1981). Pump over of tank in terminal yard released 12,100 gallons gasoline (October 1981). Failure of tank car valve released 9,500 gallons Avgas 100 (August 1983). Overfilled tank car (set stop meter failure) released 178 gallons gasoline (August 1983). Hose failure during loading released 1,400 gallons Jet A-50 (January 1984). Failure of 6-inch underground transfer line between Chevron and Butler released 106,900 gallons Jet A-50 (December 1984). Overrun of additive tank while filling released 55 gallons Techolene (February 1990). Overrun of additive tank while filling released 112 gallons Techolene (January 1992).

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-025		
Summary of Analytical Data Results		**Soil ppm**	**Groundwater ppb**
	VOC	Not Detected	Not Analyzed
	TPH	29-1100	Not Analyzed
	DRO	4.2-11,000	3.93-1,150,000
	GRO	1.5-9,100	51.9-222,000
	BTEX	0.0014-440	0.2-25,000
	Metals	Not Detected	635-635
Investigation and/or Cleanup Actions Conducted	1. Installed 14 groundwater monitoring wells (1983). 2. Hydrogeologic Investigation (1984). 3. Site Investigation (1987). 4. ADEC letter requesting containment / cleanup discharge of oil. 5. Site Characterization Plan (1989). 6. Installation of 11 groundwater monitoring wells (1989). 7. ADEC NOV/Request for Corrective Action (1989). 8. Report of Soil Sampling Activities in the Vicinity of Tanks 1, 29, and 30 (April 1991). 9. Soil Excavation Report describing November 1996 activities (February 1997). 10. Environmental Assessment Workplan submitted for ADEC review (April 1997). 11. Quarterly groundwater monitoring conducted (c. 1997). 12. ADEC approval of work plan for Drainage Systems Upgrades (August 1997). 13. Quarterly groundwater monitoring conducted (c. 1998). 14. ADEC letter requests additional site characterization (1998). 15. Annual groundwater monitoring event submitted (July 1999). 16. ADEC approval of work plan for Stockpiled Soil Reuse (August 1999). 17. Annual groundwater monitoring event submitted (July 2000). 18. Annual groundwater monitoring event submitted (June 2001). 19. Annual groundwater monitoring event submitted (July 2003). 20. Berm Sampling report submitted to ADEC (March 2004). 21. Annual groundwater monitoring event submitted (July 2004).		
Agency Lead and Closure Status	ADEC lead, with active management by Chevron.		
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** U.S. Department of the Army Operations: Fuel loading rack and pipeline Start Date: 12/1/1944 Stop Date: 1/1/1950 Standard Oil of California Operations: Bulk terminal Start Date: 1/1/1950 Stop Date: 9/1/1978 Chevron USA Company Operations: Storage and sales (bulk terminal) Start Date: 9/1/1978 Stop Date: To Present Subtenant: Inlet Petroleum Company Operations: Unknown Start Date: Unknown Stop Date: Unknown (Present in 1987)		

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-026**
ARRC Contract No.	**4895**
EPA Site Name	Alaska Teamster-Employer Service
Address	1049 Whitney Road
Site Overview (narrative)	Site is part of cluster of sites investigated during the Whitney Road Floating Product Study (1999). Located adjacent to ARRC Railyard and LP-112, Whitney Enterprises. Although groundwater reported to be contaminated with petroleum products, including free-phase (RFA), available reports do not indicate that groundwater was sampled.
RFA SWMUs or AOCs as Identified by EPA and Description	AOC 26-1: Site groundwater - Groundwater at the site.
ARRC Comments Regarding RFA Description	AOC-1 [AOC 26-1] EPA reported that free product was present at this site. The referenced 1999 report does not discuss "petroleum constituents, solvents and metals" in groundwater at this site. ARRC knows of no testing of groundwater at this site. A sheen was noted by ARRC at a location near Whitney Road and is being addressed with ADEC.
Documented Releases	None.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	TPH 8.8-8.8 / Not Available
Investigation and/or Cleanup Actions Conducted	1. Removal of 1,000-gallon gasoline UST (1989). 2. Whitney Road Floating Product Investigation (1999).
Agency Lead and Closure Status	ADEC. UST presumed to be closed.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Coastwise Van Service Operations: Warehouse office and storage Start Date: 8/1/1956 Stop Date: 2/28/1958 Foster Freight Lines, Inc. Operations: Warehouse and storage Start Date: 3/1/1958 Stop Date: 2/28/1961 The D-J Company Operations: Warehouse &and storage Start Date: 3/1/1961 Stop Date: 3/31/1975 Subtenant: Alaska Orient Van Services, Inc. Operations: Household goods carrier Start Date: 1961 Stop Date: 1972

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-026
Lease Property History & Site Use (Continued	**Tenants, Operators or Other PRPs:** Willis Flooring Company Operations: Warehouse and storage Start Date: 4/1/1975 Stop Date: 5/31/1977 Subtenant: Weaver Brothers, Inc. Operations: Unknown Start Date: 1975 (said to be short-term) Craig Taylor Equipment Operations: Snow machine distribution Start Date: 6/1/1977 Stop Date: 5/31/1978 Millers Equipment & Recreation Center Operations: Snow machine and boat retailing Start Date: 6/1/1978 Stop Date: 6/11/1990 Subtenant: Bryant Corporation & Nelson Marine & Equipment, Inc. Operations: Unloading railcars, equipment distribution Start Date: 1987 Stop Date: Unknown Alaska Teamsters-Employer Service Operations: Training activities Start Date: 6/11/1990 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-027**	
ARRC Contract No.	**4996**	
Site Name	Chevron Products USA Co.	
Address	South Side of West Bluff Drive	
Site Overview (narrative)	Relatively few environmental reports, records, or documents specific to this site obtained; however, some materials for adjacent LP-025 (Chevron Terminal) may apply. Asphalt production and distribution conducted from 1974 - 1994. Petroleum and chlorinated solvents present at site, some of which may have migrated from adjacent properties.	
RFA SWMUs or AOCs as Identified by EPA and Description	No SWMUs or AOCs.	
ARRC Comments Regarding RFA Description		
Documented Releases	Evidence of unspecified volume of petroleum discharges at the asphalt plant noted in ADEC Notice of Violation / Request for Corrective Action (December 1989).	
Summary of Analytical Data Results	**Soil ppm**	**Groundwater ppb**
	Not Available	Not Available
Investigation and/or Cleanup Actions Conducted	Note - certain investigations associated with the Chevron Terminal located to north across West Bluff Road (LP-025) may apply to this site. Interim report and plan addressing diesel / asphalt spill (July 1997).	
Agency Lead and Closure Status	ADEC lead, with active management by Chevron.	

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-027
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** U.S. Department of Commerce Bureau of Public Roads Operations: Asphalt plant Start Date: Unknown Stop Date: c. 1959 State of Alaska Department of National Resources Operations: Asphalt plant Start Date: c. 1959 Stop Date: 7/7/1961 Standard Oil of California Operations: Asphalt plant Start Date: 7/7/1961 Stop Date: 7/1/1979 Chevron USA Inc. Operations: Storage and distribution of petroleum products Start Date: 7/1/1979 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-031**		
ARRC Contract No.	**5103 (Assigned) / 8273**		
EPA Site Name	Keystone Services, Inc.		
Address	2320 Post Road		
Site Overview (narrative)	Site consists of two lessee-owned warehouse / office buildings. RFA states that site not used for vehicle maintenance, nor hazardous materials storage. Site is adjacent to the Standard Steel Superfund Site, which was impacted by PCBs.		
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 31-1: Sewage System - The sanitary sewage system from the site drains to a leach field located under the truck ramp at the loading dock. The system is compacted and non-functional, and the septic tank is pumped frequently. AOC 31-1: Area of UST Removal - An UST was removed from the site early in 1990. No history of on-site releases was discovered, other than minor spills and overfill associated with the abandoned UST that were below applicable ADEC cleanup levels.		
ARRC Comments Regarding RFA Description	AOC 31-1 ADEC files indicate the UST was removed and closed in 1990 with no further action required by ADEC. This is not an area of concern. Adding this site is duplicative and unwarranted.		
Documented Releases	None.		
Summary of Analytical Data Results		**Soil ppm**	**Groundwater ppb**
	VOC	0.012-0.23	Not Analyzed
	SVOC	Not Detected	Not Analyzed
	TPH	7-21	Not Analyzed
	DRO	30.7-722	Not Detected
	GRO	Not Detected	Not Detected
	BTEX	0.006-0.012	Not Detected
	Chlorinated Solvents	Not Detected	Not Analyzed
	Metals	29-76	40-40
	PCB	0.53-48	Not Detected
Investigation and/or Cleanup Actions Conducted	1. 1990 UST closure report. 2. 1991 ESA. 3. 1999 PCB Investigation. 4. 2001 Phase I/Phase II ESA.		
Agency Lead and Closure Status	ADEC lead. USTs closed. Fuel residue concentrations at site were below ADEC cleanup level, so remediation not required. EPA representative agreed with Alta study that PCB remediation not required as part of Standard Steel ROD (see HC summary)		
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Reliable Services, Inc. (east portion of site) Operations: Electrical contractor Start Date: 7/1/1950 Stop Date: 1969		

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-031
Lease Property History & Site Use (Continued	**Tenants, Operators or Other PRPs:** George Cease (west portion of site) Operations: Warehouse and heavy duty repair shop Start Date: 11/16/1950 Stop Date: 6/30/1952 L.E. Baldwin (west portion) Operations: General contractor Start Date: 7/1/1952 Stop Date: 9/30/1957 North Star Terminal & Stevedoring (all site) Operations: Warehouse and storage Start Date: 10/1/1957 Stop Date: 11/30/1979 Keystone Services, Inc. Operations: Warehousing and distribution Start Date: 12/1/1979 Stop Date: 11/5/2001 Subtenant: Standard Steel PRP Group (Chugach Electric Association, JC Penneys, Sears Roebuck, Westinghouse Electric) Operations: Investigation and administration activities (Part of Standard Steel Superfund Site) Start Date: 3/1/1998 Stop Date: 10/31/1998 JED, LLC & 2320 Post Road, LLC Operations: Warehouse Start Date: 11/5/2001 Stop Date: To Present Subtenant: Keystone Services, Inc. Operations: Warehouse and distribution Start Date: 11/5/2001 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-034**
ARRC Contract No.	**5374**
EPA Site Name	CDF, Inc.
Address	1000 Whitney Road
Site Overview (narrative)	Impacts exist on either side of this site (at Arctic Cooperage and Laidlaw Transport). Dissolved petroleum product in groundwater and floating product have been identified at this site, which was subject to the 1999 Whitney Road Floating Product investigation. The site is located downgradient of the railyard and north Ship Creek Bluff, and immediately north of the Ship Creek Riparian zone.
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 34-1: Former Waste Paint Management Area - Swank Construction left abandoned paint cans at the site, which have since been removed. No additional information about this former waste management area is available. AOC 34-1: Site Groundwater - Groundwater at the site is contaminated. The nature and extent of contamination has not been fully delineated and remedial action has not been conducted.
ARRC Comments Regarding RFA Description	SWMU 34-1 ARRC requested that the empty paint containers be removed. ARRC was informed and observed their removal. AOC 34-1 Reference to dissolved petroleum, sheens, and floating product on groundwater with an undefined source is misleading and incorrect and does not represent the situation at the site. This site has been the subject of multiple investigations and remedial activities. The nature of contamination has been defined. ADEC has had oversight since 1997. ARRC will continue to address the Whitney Road fuel area with ADEC oversight.
Documented Releases	None.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	Not Available / Not Available
Investigation and/or Cleanup Actions Conducted	1. Site is within Whitney Road Floating Product study area. ARRC has stated that the nature of contamination has been defined, extent largely defined, and ongoing work is being conducted with oversight from ADEC.
Agency Lead and Closure Status	ADEC lead; site is open
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Lent's, Inc. Operations: Warehouse for mechanical contractor Start Date: 3/1/1959 Stop Date: 7/31/1962 Warren Painting Co., Inc. Operations: Warehouse, manufacturing and selling of paint products Start Date: 8/1/1962 Stop Date: 1982 Subtenant: Anchorage Body Shop Operations: Auto body repair & painting Start Date: 2/1/1975 Stop Date: 1980

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-034
Lease Property History & Site Use (Continued)	**Tenants, Operators or Other PRPs:** Jerry P. Willis Operations: Warehouse for floor and ceiling contract work Start Date: 1/1/1982 Stop Date: To Present Subtenant: Willis Flooring Company Operations: Offices and storage for flooring business Start Date: 1/1/1982 Stop Date: 12/1986 Subtenant: Mark Swank (d/b/a Swank Construction) Operations: Construction Start Date: Unknown Stop Date: 1992 Subtenant: CDF, Inc. Operations: General Contractors Start Date: 1997 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-038**
ARRC Contract No.	**5473**
EPA Site Name	J & V Rentals
Address	333 E. Ship Creek Avenue
Site Overview (narrative)	No environmental reports, records, or documents have been obtained for this property. The property is located at the southwest corner of East Ship Creek Avenue and North Cordova Street and, as reported in the RFA, has been operated for warehousing, office, and storage purposes. The site was not investigated during the VSI as site personnel were not present.
RFA SWMUs or AOCs as Identified by EPA and Description	
ARRC Comments Regarding RFA Description	No additional comments.
Documented Releases and/or Environmental Issues	None.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	Not Available / Not Available
Investigation and/or Cleanup Actions Conducted	None.
Agency Lead and Closure Status	Not documented.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Anne Shonbeck Operations: Unknown Start Date: Unknown Stop Date: Prior to 3/1/1950 Army-Navy Surplus Store Operations: Warehouse Start Date: 3/1/1950 Stop Date: 8/31/1962 Movers, Inc. (name change to J & V Rentals in 1965) Operations: Warehouse for trucking firm Start Date: 9/1/1962 Stop Date: 6/30/2004 Subtenant: Army Navy Surplus Operations: Warehouse Start Date: Unknown Stop Date: Present in 1962 Subtenant: Salvation Army Operations: Portion of warehouse Start Date: Unknown Stop Date: Present in 1965 Subtenant: Play It Again Sports Operations: Warehouse Start Date: Unknown Stop Date: Present in 2000

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-042**
ARRC Contract No.	**5611**
EPA Site Name	York Steel Co.
Address	115 Whitney Road
Site Overview (narrative)	No environmental reports, records, or documents have been obtained for this property. The property is on the south side of Ship Creek Avenue and, as reported in the RFA, has been operated for warehousing, office, and storage purposes. The site was not investigated during the VSI as site personnel were not present.
RFA SWMUs or AOCs as Identified by EPA and Description	
ARRC Comments Regarding RFA Description	No additional comments.
Documented Releases and/or Environmental Issues	None.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	Not Available / Not Available
Investigation and/or Cleanup Actions Conducted	None.
Agency Lead and Closure Status	Not documented.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Fowler Steel Co., Inc. (d/b/a Husky Steel Corp.) Operations: Steel fabrication Start Date: 4/1/1963 Stop Date: 3/31/1968 Red-E-Steel Co. Operations: Steel fabrication Start Date: 4/1/1968 Stop Date: 8/2/1973 J. B. Warrack Co., Inc. Operations: Unspecified Start Date: 8/2/1973 Stop Date: 4/1/1974 Joseph M. Jolley Operations: Warehouse and storage, construction materials Start Date: 4/1/1974 Stop Date: 3/31/1978 William Wilcox Operations: Warehouse and storage Start Date: 4/1/1978 Stop Date: 3/31/1979

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-042
Lease Property History & Site Use (Continued)	**Tenants, Operators or Other PRPs:** Columbia Equipment, Inc. Operations: Storing and preparing dried sand and concrete for shipment Start Date: 11/1/1979 Stop Date: 3/9/1990 York Steel Co. (later York Steel Co., Inc.) Operations: Equipment storage Start Date: 3/9/1990 Stop Date: Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-049**		
ARRC Contract No.	**5846 / 8349**		
EPA Site Name	Wrightway Auto Carriers		
Address	101 West Whitney Road		
Site Overview (narrative)	Site used as an auto shipping / staging facility, primarily by Wrightway Auto Carriers. Property improvements include office building, shop, and extensive paved areas. The site is partially adjacent to and north of the Ship Creek riparian area, and downgradient and adjacent to the ARRC railyard. On- and/or off-site sources may contribute to groundwater contamination. A water supply well at the site is screened to the (deeper) confined aquifer.		
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 49-1: Used Oil Accumulation Tank - A 250-gallon aboveground storage tank is used to store used oil generated at the site. The tank is located on the eastern side of the site on a drip pan over exposed ground. There is reference to a release from this tank in 1988, during which approximately 5 gallons of waste oil was spilled to the ground at the rear of the red shop building. SWMU 49-2: Used Antifreeze Accumulation Area - A 55-gallon drum located under a covered shed and over a concrete surface is used to store used antifreeze. Drum was observed to be in good condition and no leaks or spills were noted. AOC 49-1: Area of Gasoline Fuel Leak - In 1993, 50 to 150 gallons of gasoline fuel leaked onto the property. No information concerning the exact locations of the leaks was discovered. AOC 49-2: Areas of UST Removals and Stockpiled Soil - Three underground storage tanks were formerly located at the site. Unknown whether contamination has been adequately characterized, or if remedial actions have been performed to address contamination from the former operation of these USTs.		
ARRC Comments Regarding RFA Description	RFA reference to the oil/water seperator and seeps is incorrect. The oil/water separator does not cross through the site and was not the source of the "oil seep" referenced. AOC 49-2 reference to concentrations in soil of diesel greater than the ADEC risk based cleanup levels are minimal (260 ppm vs. 250 ppm action level). It is ADEC's policy not to require further action for minor exceedances.		
Documented Releases	Oil seep at bank of Ship Creek at location 100 feet south of site (1986). ADEC received report that an unspecified volume of petroleum products were being released on the property and issued a letter to property owners (January 1991).		
Summary of Analytical Data Results		**Soil ppm**	**Groundwater ppb**
	VOC	Not Detected	Not Analyzed
	DRO	23-720	329-2260
	GRO	11-170	Not Detected
	BTEX	0.02-1.8	4.39-4.39
	Chlorinated Solvents	Not Detected	Not Analyzed
	Metals	4.1-171	Not Analyzed

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-049
Investigation and/or Cleanup Actions Conducted	1. Communication from ARRC to Wrightway re waste oil disposal practices (1986). 2. Approx. 25 groundwater monitoring wells installed near and/or on site (1986 - 1989). 3. ADEC issued NOV and Request for Corrective Action for fuel releases (1990). 4. Diesel and leaded gasoline UST removals, c.1990. 5. Diesel UST removal, 1992. 6. ADEC letter to Wrightway requesting sampling results (1993). 7. ADEC sent Notification of Intent to Cost Recover to Wrightway (1997). 8. Two ADEC requests for response to Feb 1993 letter re sampling results and site status (2000).
Agency Lead and Closure Status	ADEC. USTs removed, but apparently not closed, pending final communication of sampling results.
Lease Property History & Site Use	**Tenants, Operators or other PRPs:** Wrightway Auto Carriers Operations: Terminal for hauling and unloading new autos Start Date: 5/10/1965 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-051**
ARRC Contract No.	**6091**
EPA Site Name	M-K Properties
Address	2530 Railroad Avenue
Site Overview (narrative)	No environmental reports, records, or documents have been obtained for this property. Site has been utilized for equipment and materials storage associated with construction / contracting, surveying, and fencing operations. RFA reports that no wastes currently generated at the site; however, container storage area includes several potential soil / groundwater contaminants, and containers left at the site by previous tenant.
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 51-1: Container Storage Area - Thirty 55-gallon drums and thirty 5-gallon containers present in northwest corner of site behind building. Containers located over exposed ground and were loosely covered with tarp. Poor labeling and handling practices noted. No environmental releases discussed.
ARRC Comments Regarding RFA Description	Owner/operator of the facility informed ARRC that the referenced containers have been properly removed and disposed, as was described in June 21, 2002 and August 13, 2002 correspondence to EPA from K-C Corp. the sub-lessee. ARRC checked the site Sept. 6, 2001 after the containers were removed and no stains were observed on the soil. This site should have been screened from further evaluation.
Documented Releases	None.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	Not Available / Not Available
Investigation and/or Cleanup Actions Conducted	None.
Agency Lead and Closure Status	Not documented.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** R.R. Knodel Operations: Warehouse, shop and yard, general contracting Start Date: 6/1/1951 Stop Date: 5/31/1953 C.O. Rush, Inc. & Alaska Plumbing & Heating Co. Operations: Not specified Start Date: 6/1/1953 Stop Date: 5/31/1959 Northland Pipe & Supply Company Inc. (subsidiary of Morrison Knudsen) Operations: Plumbing and heating storage Start Date: 6/1/1959 Stop Date: 10/31/1962

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-051
Lease Property History & Site Use (Continued)	**Tenants, Operators or Other PRPs:** Alaska Plumbing & Heating Co., Inc. Operations: Warehouse and storage Start Date: 11/1/1962 Stop Date: 11/1/1970 Hickel Investment Company Operations: Warehouse and storage for general contractor Start Date: 11/1/1970 Stop Date: 10/31/1974 Vern Hickel Construction Co. Operations: Office, warehouse, and storage Start Date: 11/1/1974 Stop Date: 4/27/1988 Subtenant: Alaska Truck Transport, Inc. Operations: Trucking Start Date: Unknown Stop Date: Unknown (Present in 1976) Subtenant: Wayne Lofgren (d/b/a Tok Distribution Services) Operations: Distribution Start Date: 2/1/1977 Stop Date: 7/31/1978 RG & B Contractors Operations: Not specified Start Date: 11/1/1988 Stop Date: 11/21/1991 M-K Properties Operations: Construction yard Start Date: 11/21/1991 Stop Date: To Present Subtenant: Paul's Services Operations: Welding Start Date: Unknown Stop Date: Unknown (Present in 1995) Subtenant: Greatland Fence Co. Operations: Fence company Start Date: Unknown Stop Date: Unknown (Present in 2001)

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-052**
ARRC Contract No.	**6119**
EPA Site Name	Patrick M. Hickey
Address	826 Whitney Road
Site Overview (narrative)	Little known about site. No environmental reports, records, or documents have been obtained. As reported in the RFA, historical use has included "fish brokering and claim adjusting." Site is adjacent to and north of the Ship Creek riparian area, and west of the Whitney Road Floating Product investigation conducted in 1999.
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 52-1: Used Oil Accumulation Area - A 55-gallon drum, located inside building with concrete floor. Used to store used oil generated during automobile maintenance. SWMU 52-2: Junk Yard/Salvage Area - Located behind building along banks of Ship Creek. Two drums of unknown contents noted. Four automobile gas tanks stored; one with fuel. No discussion of releases to environment. AOC 52-1: Location of Former UST - An empty UST. Excavated in 1980 and contents drained upon removal. No information about whether or not environmental sampling was performed upon excavation. No discussion of environmental releases.
ARRC Comments Regarding RFA Description	The tank referenced in the RFA was reportedly removed in 1980 when the railroad was owned and operated by the federal government. Due in part to the substantial period of time that has passed since the tank was removed, ARRC has no additional information regarding its removal.
Documented Releases	Letter from ARRC to lessee dated May 12, 1992 indicates that an unspecified volume of oil may have been released on the property.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	Not Available / Not Available
Investigation and/or Cleanup Actions Conducted	None.
Agency Lead and Closure Status	Not Documented.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Jack Woodland Operations: Not specified Start Date: Unknown Stop Date: Unknown (Present in 1959) Industrial Development Company Operations: Warehouse and storage (manufacturers rep for electrical equipment such as transformers, switch gear) Start Date: 5/1/1960 Stop Date: 4/30/1969 N.D. Pierce Operations: Warehouse and storage Start Date: 5/1/1969 Stop Date: 11/30/1979 Various Subtenants: Alaska Sales Company, Martins Seafood Northwest, Northern Optical Co. Operations: Building occupants Start Date: Unknown Stop Date: Unknown (present in 1979)

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-052
Lease Property History & Site Use (Continued)	**Tenants, Operators or Other PRPs:** Patrick M. Hickey Operations: Fish broker & claim adjusting / tire & retreading Start Date: 12/1/1979 Stop Date: 12/2/1988 Subtenant: Susitna Tire/Montana Tuff Cure, Inc. Operations: Tire dealer Start Date: 5/1/1981 Stop Date: Unknown (Present in 1992) Subtenant: Alaska Option Retreads Operations: Tire dealer/retreads Start Date: 10/1/1987 Stop Date: 9/3/1988 Patrick M. Hickey Operations: Fish broker Start Date: 7/1/1989 Stop Date: Present Subtenant: Ben Ward Operations: Unknown (junk vehicles observed) Start Date: Unknown Stop Date: Unknown (Present in 1992-1996) Subtenant: Ron Jones Operations: Private car club Start Date: Unknown Stop Date: Unknown (Present in 2001)

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-055**		
ARRC Contract No.	**6352**		
EPA Site Name	C.V. Wells, Jr.		
Address	800 E. Ship Creek Ave.		
Site Overview (narrative)	Site is located downgradient of the ML&P site (LP-022), and adjacent to and immediately south of Ship Creek. Site improvements include large warehouse / office building and fenced storage yard. Areas showing highest concentration in soil from petroleum hydrocarbons were drilled in a tract that is no longer part of Site #55 (HC summary).		
RFA SWMUs or AOCs as Identified by EPA and Description	No SWMUs or AOCs.		
ARRC Comments Regarding RFA Description	This site is downgradient of MLP above ground tank release. It has been included in the ADEC investigations (for LP-022), remediation evaluations, and monitoring activities. Adding this site is duplicative and unwarranted.		
Documented Releases	None.		
Summary of Detected Analytical Data Results		**Soil ppm**	**Groundwater ppb**
	VOC	Not Detected	Not Detected
	SVOC	Not Detected	Not Analyzed
	TPH	1690-1690	147-99,300
	DRO	1.5-2840	Not Analyzed
	BTEX	0.031-1.0	1-107.4
	Chlorinated Solvents	Not Detected	Not Detected
Investigation and/or Cleanup Actions Conducted	1. Environmental Site Assessment included installation of five soil borings, three groundwater monitoring wells (1990). 2. Diesel UST removed from site, date unknown.		
Agency Lead and Closure Status	Not documented.		
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Swanson & Center Operations: Unknown Start Date: Unknown Stop Date: Unknown, prior to 1982 C.V. Wells, Jr. Operations: Shipping and receiving household goods and other commodities Start Date: 9/1/1981 Stop Date: To Present Subtenant: Great Western Chemical Operations: Chemical storage Start Date: Unknown Stop Date: Unknown (Present in 1990) Subtenant: U.S. Govt GSA Operations: Equipment storage and supplies (warehouse space) Start Date: 1/1/2001 Stop Date: To Present Subtenant: Emerald Alaska Operations: Unknown Start Date: 1/1/2003 Stop Date: To Present		

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-056**
ARRC Contract No.	**6392**
EPA Site Name	Steel Fabricators
Address	2132 Railroad Ave.
Site Overview (narrative)	Site located southwest of Standard Steel, and north of the Ship Creek riparian area. Site historically operated as warehouse and storage, construction yard, steel fabrication and paint shop, and one time storage of contaminated soil from the Alaska Regional Hospital (agency approved).
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 56-1: Used Oil Accumulation Area - 55-gallon drum that is stored inside a closed Conex box behind the western building. The drum is placed on top of a secondary containment pad inside the Conex. SWMU 56-2: Outdoor Container Storage Area - Seven 5-gallon containers labeled as thinner stored on south side of western building. Containers were rusted, uncovered, and stored over bare ground. No discussion of environmental releases. SWMU 56-3: Paint Distiller - Unit located inside the paint shed. Building could not be entered due to volatile paint fumes; therefore, not inspected. Sludge from this unit removed and disposed in on-site dumpster. SWMU 56-4: Spent Abrasive Disposal Area - Spent abrasives from sandblasting operations are disposed on the ground around the facility between and behind both buildings and under a sandblasting tent in the northeast corner of the site. SWMU 56-5: Septic System - Septic system is located at the site for the disposal of sewage. Details about this unit not available.
ARRC Comments Regarding RFA Description	No additional comments.
Documented Releases	None.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	Not Available / Not Available
Investigation and/or Cleanup Actions Conducted	UST removal (1991).
Agency Lead and Closure Status	ADEC lead on UST work; closure not finalized.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** N.F. Shaw (portion) Operations: Warehouse and storage Start Date: 4/1/1951 Stop Date: 10/31/1956 Susitna Investment Company (A.C. Swalling) (portion) Operations: Warehouse and storage Start Date: 6/1/1970 Stop Date: 9/1/1974

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-056
Lease Property History & Site Use (Continued	**Tenants, Operators or Other PRPs:** Swalling Construction Company (A.C. Swalling) (portion) Operations: Warehousing and yarding construction materials and equipment Start Date: 11/1/1951 Stop Date: 10/30/1952 Steel Fabricators, Inc. (portion) Operations: Steel fabrication Start Date: 11/1/1952 Stop Date: 10/31/1972 Audrey Clawson (portion) Operations: Warehouse, fabrication plant and storage site Start Date: 11/1/1972 Stop Date: 9/1/1974 Susitna Investment Company, Inc. (d/b/a Steel Fabricators) (all of site) Operations: Warehouse and storage Start Date: 9/1/1974 Stop Date: 8/31/1992 Subtenant: R.J.H., Inc. Operations: Unknown Start Date: Unknown Stop Date: Unknown (Present in 1988) R.J. H., Inc. Operations: Warehouse (steel fabrication, paint shop) Start Date: 9/1/1992 Stop Date: To Present Subtenant: A.G.I., Inc. (environmental company) Operations: Storage of contaminated soils Start Date: Unknown Stop Date: Unknown (Present in 1992)

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-060**
ARRC Contract No. 6437	**6437 (Assigned) / 8423**
EPA Site Name	North Star Terminal & Stevedore Company
Address	800 Ocean Dock Road
Site Overview (narrative)	Warehouse / freight loading and unloading from barges. Site includes equipment and vehicle maintenance shop . Portion previously subleased for oil rig module construction. One non-potable water supply well completed to 290 feet. No known USTs. 2 ASTs (a 300-gallon used oil tank and 600-gallon gasoline tank used for vehicles).
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 60-1: Used Oil Accumulation Area and Used Oil Burner - Two steel, 500-gallon holding tanks that feed on on-site burner for used oil. Tanks and burner are located in the shop over concrete flooring. Area in good condition, and no major leaks or spills were noted. SWMU 60-2: Smart Ash Combustion Unit - On-site mobile Smart Ash combustion unit used to incinerate oily rags, oil-soaked absorbent, and trash. Unit is stored and operated within the shop over concrete flooring. Unit in good condition. SWMU 60-3: Used Oil Storage Area - Three drums of used oil were stored outside in the yard. Drums in good condition, and no leaks or spills were noted. These drums were to be removed from the site within thirty days.
ARRC Comments Regarding RFA Description	No additional comments.
Documented Releases	Known releases at adjacent MAPCO site suspected to impact property. Failure of a hose carrying jet oil to compressors released 30 gallons of Mobil Jet Oil #2 (March 2001). Line failure during hydro testing released less than 10 gallons of Mobil Jet Oil (May 2001).
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	DRO: 10.1-605 / Not Available
	GRO: 2.4-23.4 / Not Available
	BTEX: 0.052-0.78 / Not Available
Investigation and/or Cleanup Actions Conducted	Phase I Environmental Site Assessment (July 1996). Phase II Environmental Site Assessment (August 1998). Work Plan for Additional Soil Characterization (September 1998). Final Contamination Assessment Report (November 1999). Final Contamination Assessment Report for the Port of Anchorage (April 2002).
Agency Lead and Closure Status	Not known; however, discovery of hydrocarbon impacts exceeding ADEC guidelines indicates that ADEC would require additional assessment at site.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Alaska Fish & Farm Products, Inc. (portion) Operations: Cold storage plant, warehouse, storage and dock -- freight handling Start Date: 10/1/1946 Stop Date: 9/30/1960

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-060
Lease Property History & Site Use (Continued)	**Tenants, Operators or Other PRPs:** Tidewater Packing Company (portion) Operations: Salmon cannery and access roadway Start Date: 1/1/1959 Stop Date: 6/10/1974 Cook Inlet Tug & Barge Company (portion) Operations: Warehousing, wharf site, and roadway Start Date: 12/1/1957 Stop Date: 6/30/1970 Subtenant: Union Oil of CA Operations: Pipeline ROW Start Date: 1966 Stop Date: Unknown North Star Terminal & Stevedore Company (portion) Operations: Warehouse, wharf site, and offices Start Date: 7/1/1970 Stop Date: 9/30/1990 Union Oil of CA Operations: Pipeline ROW Start Date: 6/14/1972 Stop Date: Unknown North Star Terminal and Stevedore Company (complete parcel) Operations: Warehouse, wharf site, and offices Start Date: 10/1/1991 Stop Date: 5/31/2002 Subtenant: BP (portion) Operations: Modular building assemblage Start Date: 10/9/1996 Stop Date: 1997 Subtenant: VECO Alaska (portion) Operations: Modular building assemblage Start Date: 1/1/1999 Stop Date: 2000 North Star Terminal and Stevedore Co., LLC Operations: Warehouse, wharf, and offices Start Date: 5/31/2002 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-065**		
ARRC Contract No.	**6513 / 6514 / 8038**		
EPA Site Name	Princess Tours/Westours Motor Coaches, Inc. and Royal Celebrity Tours		
Address	Access via Ocean Dock Road (within Railyard)		
Site Overview (narrative)	Site consists of 3 contiguous parcels: Tour Alaska, Westours Motorcoaches, and Royal Celebrity Tours. Operations are primarily railcar cleaning and/or maintenance. Site is adjacent to and immediately south of the ARRC Car Shop. Soil and groundwater impacted by petroleum hydrocarbons, chromium, lead, and other metals.		
RFA SWMUs or AOCs as Identified by EPA	SWMU 65-1: Steam Cleaning Area and Drip Pans - Railcar steam cleaning operation was formerly operated on the southernmost end of the two tracks that run through this site. Runoff from the tank car steam cleaning was collected in drip pans between the rails of the tracks. Documented contamination of both soil and groundwater exists in this area. SWMU 65-2: Oil/Water Separator - Westours operates an oil/water separation system at the western end of the site for the collection of runoff and wastewater from railcar washings. Documented contamination of both soil and groundwater exists in this area. SWMU 65-3: Princess Used Oil and Antifreeze Accumulation Areas - Princess accumulates used oil in a 55-gallon transfer drum located on a mobile containment pad. After accumulation, the contents are transferred to a 300-gallon steel AST. This tank is located under a covered roof and over an asphalt surface. These areas were in good condition. Leaks and spills were not noted. SWMU 65-4: Westours Used Oil Accumulation Area - Westours accumulates used oil in a 500-gallon steel tank located under the tent cover and over an asphalt surface. Tank in good condition and no leaks or spills were observed.		
ARRC Comments Regarding RFA Description	SWMU 65- 1 appears to be the same as SWMU 69 from the yard RFA.		
Documented Releases	ARRC staff reported 100-gallon to 300-gallon release from oil water separator (winter of 1991-1992).		
Summary of Analytical Data Results		**Soil ppm**	**Groundwater ppb**
	VOC	0.014-0.4	1.1-12.8
	SVOC	0.00022-60	0.01-10
	TPH	25-13,000	1000-3,240,000
	DRO	4-25,8000	100-1,230,000
	GRO	1.2-242	20-470
	BTEX	0.015-6.6	1-73
	Chlorinated Solvents	Not Detected	3-6
	Metals	0.042-2790	0.28-15,800
	PCB	Not Detected	Not Detected

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-065
Investigation and/or Cleanup Actions Conducted	Level I and Level II Environmental Site Assessment and Geotechnical Investigation, including completion of 15 soil borings and 6 monitoring wells (1992). Approximately 50 cyds of contaminated soil excavated during construction activities (1993). Supplemental Site Assessment, including completion of 7 soil borings and 2 additional monitoring wells (August 1994). Final Report Results of Diesel Range Organic Analysis in Soils (November 1994). Environmental Baseline Assessment, including completion of 10 soil borings for environmental and geotechnical purposes (2001).
Agency Lead and Closure Status	ADEC lead. Active Site.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Tour Alaska LLC (d/b/a Princess Tours) (portion Operations: Railcar and bus maintenance and service facility Start Date: 6/10/1992 Stop Date: To Present Westours Motorcoaches Inc. (portion) Operations: Cleaning railcars Start Date: 10/1/1993 Stop Date: To Present Royal Celebrity Tours Inc. (portion) Operations: Maintenance and storage of non self-propelled passenger equipment, baggage cars Start Date: 10/1/2000 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-069**
ARRC Contract No.	**6788**
EPA Site Name	Dean's Auto Body (Sic Deans Automotive)
Address	720 Whitney Road
Site Overview (narrative)	This site is located on the south side of Whitney Road; improvements include two older metal-clad industrial buildings. The site is west of the area studied during the Whitney Road Floating Product Investigation (1999), immediately north and adjacent to Ship Creek, and downgradient of the ARRC Railyard. Site is essentially uncharacterized, with multiple potential sources of contamination.
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 69-1: Used Antifreeze Storage Area - Fourteen drums of antifreeze were observed along the northern side of the service shop. Drums were stored outside on wooden pallets over bare ground. Some drums were rusted, and some were partially crushed - but no leaks were observed. SWMU 69-2: Temporary Storage Area for Contaminated Soil - Two drums labeled "Contaminated Soil" were stored on a wooden pallet over bare ground at the southeast corner of the service shop. This soil was collected from visibly stained areas throughout the site. Drums were in good condition and no leaks or spills were observed. SWMU 69-3: Accumulation Areas for Used Oil, Antifreeze, and Batteries - A 55-gallon drum in the southern portion of the service shop stores used oil and antifreeze. These drums are located on concrete and under a roof. Drums were in good condition and major leaks and spills were not observed. Used batteries are also accumulated within the service shop. SWMU 69-4: Storage Area for Used Oil - A used oil storage area is located in the southwest corner of the site. The area drains directly to Ship Creek. About 75 drums stored in this area. These drums were covered with plastic and stored over wooden pallets located on bare ground. Many drums were rusted. Areas of visible staining were noted on the ground in this area. SWMU 69-5: Trash Burner - Trash is burned on site in a metal enclosure located adjacent to and west of the oil storage area. The unit is intended to burn paper trash only. SWMU 69-6: Oil/Water Separation System - Floor drains located in the service shop drain to an underground oil/water separator. Sludge is collected and disposed of once per year. SWMU 69-7: Solvent Accumulation Area and Solvent Distiller - Solvents are used in the paint shop. Two drums of solvent were observed. One was stored outside (east of) the paint shop on bare ground and the other was stored inside the paint shop on concrete flooring. Drums in good condition and no leaks or spills were observed. Identity of solvents unknown. SWMU 69-8: Sandblasting Area - Sandblasting operations are conducted over bare ground adjacent to and east of the paint shop. This area drains south directly to Ship Creek.
ARRC Comments Regarding RFA Description	No additional comments.
Documented Releases	Letter from ARRC to tenant cites pools of oil of unspecified volume reported present on the property (June 1996).

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-069	
Summary of Analytical Data Results	Soil ppm	Groundwater ppb
	Not Available	Not Available
Investigation and/or Cleanup Actions Conducted	1. Three USTs are registered at the site, all listed as permanently out of service. Not clear whether they remain on the property (no evidence of closure).	
Agency Lead and Closure Status	ADEC lead, ADEC requesting information regarding status of UST (1992).	
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Morrison-Knudsen Co., Inc. (portion) Operations: Parking equipment Start Date: 11/1/1952 Stop Date: 10/31/1967 Morrison-Knudsen Co., Inc. (portion) Operations: Building warehouse, storage of equipment Start Date: 10/1/1957 Stop Date: 10/31/1967 Morrison-Knudsen Co., Inc. (portion) Operations: Storage of equipment Start Date: 3/1/1959 Stop Date: 10/31/1967 A&G Construction Co., Inc. (all of site) Operations: Construction business, repairing and storing equipment Start Date: 11/1/1967 Stop Date: 10/31/1968 Evans Engine & Equipment Co., Inc. Operations: Business, repairing & storing equipment Start Date: 11/1/1968 Stop Date: 3/28/1989 Dean's Automotive Operations: Repairing and storing motor vehicles and construction equipment Start Date: 3/28/1989 Stop Date: To Present	

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-070**	
ARRC Contract No.	**6869**	
EPA Site Name	Golden Ears Investment Corp.	
Address	333 E. Ship Creek Avenue	
Site Overview (narrative)	No environmental reports, records, or documents have been obtained for this site. Site is located adjacent to, and upgradient / south of Ship Creek. Site improvements include a concrete block industrial building. Current operations include a print shop; not investigated during VSI due to absence of facility representatives.	
RFA SWMUs or AOCs as Identified by EPA and Description	None.	
ARRC Comments Regarding RFA Description	No additional comments.	
Documented Releases	None.	
Summary of Analytical Data Results	**Soil ppm**	**Groundwater ppb**
	Not Available	Not Available
Investigation and/or Cleanup Actions Conducted	None.	
Agency Lead and Closure Status	No documentation.	
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** N.F. Nelson Operations: Warehouse site Start Date: 9/1/1956 Stop Date: 2/28/1959 Clifton A. & Louise M. Nelson Operations: Warehouse and storage site Start Date: 3/1/1959 Stop Date: 11/30/1969 Golden Ears Investment Corp. (d/b/a Alcan Brokerage Company) Operations: Warehouse and storage Start Date: 1/21/1969 Stop Date: To Present Subtenant: Culfabco, Inc. Operations: Manufacturing of culverts Start Date: Unknown Stop Date: Unknown (Present in1984)	

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-072**
ARRC Contract No.	**7012**
EPA Site Name	Karen's RV Service Center
Address	1849 Ship Avenue (1850 Viking Drive)
Site Overview (narrative)	Limited environmental reports, records, or documents have been obtained for this site. Site is located south and upgradient from Ship Creek. No known significant releases or impacts; however, RFA states that site contains construction debris and suspicious surface staining.
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 72-1: Accumulation Areas for Used Oil - Two 55-gallon drums used to accumulate used oil generated during RV service operations. These drums are stored inside the shop, in an enclosed building with concrete flooring. Drums in good condition and leaks and spills were not observed. AOC 72-1: Disposal Area - Concrete debris, iron and steel, and other debris, and a barrel with unknown contents was found on property. Surface staining was observed in several locations, and an aboveground fuel tank was present that appeared to have leaked product onto the ground.
ARRC Comments Regarding RFA Description	No additional comments.
Documented Releases	None.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	Not Available / Not Available
Investigation and/or Cleanup Actions Conducted	1. UST removal included stockpiling of contaminated soils (1989). 2. Stockpiled soils thermally treated by ESI (1992).
Agency Lead and Closure Status	Site status listed as "inactive" on ADEC contaminated sites database.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Industrial Air Products Operations: Industrial and medical gases, welding and cutting equipment and supplies Start Date: 1/1/1967 Stop Date: 5/31/1967 W.R. Grasle Company Operations: Warehouse, storage and office, "electrical company" Start Date: 6/1/1971 Stop Date: 4/6/1988 Subtenant: S.S. Mullen Operations: Not specified Start Date: 11/1/1975 Stop Date: 10/31/1977 Robert Foley (d/b/a Brother Bob's) Operations: Maintenance and storage of trucks, cranes and trailers Start Date: 7/1/1993 Stop Date: 4/15/1994 Mary & Joe Blackard Operations: Prepare site for warehouse Start Date: 5/22/1995 Stop Date: 7/22/1995

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-072
Lease Property History & Site Use (Continued)	**Tenants, Operators or Other PRPs:** Mary & Joe Blackard (d/b/a Geneco, Inc.) Operations: Office, warehouse, and storage Start Date: 9/1/1995 Stop Date: To Present Subtenant: Bridgestone & Firestone Operations: Not specified Start Date: 11/3/1995 Stop Date: 2001 Subtenant: Karen's RV Service Operations: RV service Start Date: 4/1/2001 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-078**
ARRC Contract No.	**7160 (Assigned) / 8513**
EPA Site Name	Criterion General, Inc.
Address	816 Whitney Road
Site Overview (narrative)	No environmental reports, records, or documents have been obtained for this site. Small site adjacent and east of Dean's Auto (LP-069). Located downgradient of ARRC Railyard, and north of and adjacent to Ship Creek. Improvements include an industrial building.
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 78-1: Accumulation Drums for Used Oil and Antifreeze - 55-gallon drums located in an outdoor storage shed are used to store used oil and antifreeze. The shed is covered with concrete flooring and a 2-inch berm for secondary containment. Drums in good condition and spills or leaks were not observed. SWMU 78-2: Waste Thinner and Thinner-Soaked Rag Accumulation Area - 5-gallon containers within the cabinet shop collect waste thinner and are then taken to the Hiland Landfill. AOC 78-1: Waste Thinner Drippage Area - Rags soaked with waste thinner are hung to dry on the fence located adjacent to the southern exit to the cabinet shop. During the VSI, a strong smell and stressed vegetation was observed. This area drains directly south to Ship Creek.
ARRC Comments Regarding RFA Description	Reference to ARRC as the lessor to Westward Trading Company in 1983 is incorrect. The lessor was the federal Alaska Railroad
Documented Releases	None.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	Not Available / Not Available
Investigation and/or Cleanup Actions Conducted	None.
Agency Lead and Closure Status	Not documented.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Morrison-Knudsen Operations: Unknown (lease not found) Start Date: pre-1962 Stop Date 10/31/1962 B&P Enterprises Operations: Warehouse, storage site Start Date: 11/1/1962 Stop Date: 4/30/1969 N.D. Pierce Operations: Warehouse, storage site Start Date: 5/1/1969 Stop Date: 11/30/1979 Subtenant in building: Alaska Sales Company, Martins Seafood Northwest, Northern Optical Operations: Not Specified Start Date: Unknown Stop Date: Unknown (Present in 1979) Patrick Hickey Operations: Fish brokering, claim adjusting, shipping of salvage vehicles Start Date: 12/1/1979 Stop Date: 2/28/1983

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-078
Lease Property History & Site Use (Continued)	**Tenants, Operators or Other PRPs:** Subtenant: Westward Trading Company (May L. Jefford) Operations: Unknown Start Date: 6/1/1982 Stop Date: 2/28/1983 Westward Trading Company (May L. Jefford d/b/a Westco) Operations: Warehousing, storage, office space, wholesaling, retailing Start Date: 3/1/1983 Stop Date: 7/18/1996 Criterion General, Inc. Operations: Office, shop Start Date: 7/18/1996 Stop Date: 12/18/2002 Laser Properties, LLC (d/b/a Accel Fire Systems, Inc.) Operations: Office/warehouse Start Date: 12/18/2002 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-079**
ARRC Contract No.	**7175 (Assigned) / 8249 / 8255**
EPA Site Name	Alaska Pride Baking
Address	1115 East Whitney Road
Site Overview (narrative)	Site is east of area investigated during the Whitney Road Floating Product Study (1999). Located adjacent to and south of ARRC Railyard and east of LP-112, Whitney Enterprises (now Paul L. Reid 8639). According to report by Shannon and Wilson (May 1991), perched groundwater within the 500-gal UST basin was observed to be impacted by petroleum products, and the water table aquifer at lower depths was observed to be impacted, perhaps by an upgradient source. ADEC Contaminated Sites database reports that last monitoring event (c.1992) shows evidence of residual groundwater contamination, with unspecified analytes detected, but below drinking water standards.
RFA SWMUs or AOCs as Identified by EPA and Description	No SWMUs or AOCs identified in RFA.
ARRC Comments Regarding RFA Description	No additional comments.
Documented Releases	None.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	Not Available / Not Available
Investigation and/or Cleanup Actions Conducted	1. First UST (500-gallon) removed on February 21, 1990, along with 20 cyds of contaminated soil. Described in April 1990 UST Removal Monitoring Report by Shannon and Wilson. 2. February 23, 1990 NOV issued by ADEC to tenant for inspection revealing "presence of significant amounts of petroleum contaminated soil," presumably associated with UST removal. 3. Second UST (1,000-gallon) removed May 24, 1990, along with 50 cyds of contaminated soil. Described in June 1990 UST #2 Removal Monitoring Report by Shannon and Wilson. 4. July 1990 Waste Soil Disposal Plan prepared by Shannon and Wilson. 5. May 1991 Petroleum Hydrocarbon Assessment prepared by Shannon and Wilson. Included installation of four groundwater monitoring wells. 6. June 1996 Phase I ESA by Restoration Science and Engineering.
Agency Lead and Closure Status	Site listed as "inactive," but not closed in ADEC Contaminated Sites database.

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-079
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Alaska Metal Builders Operations: Unknown Start Date: Unknown Stop Date: Before 1959 Pfeil & Company, Inc. (inherited by Marianne Pfeil in 1993) Operations: Warehouse and storage site Start Date: 5/1/1959 Stop Date: 7/19/1996 Subtenant: General Electric Supply Company Operations: Not specified Start Date: 5/8/1959 Stop Date: Unknown Subtenant: Servomation Corporation Operations: Not specified Start Date: 4/4/1981 Stop Date: Unknown (Present in 1984) Subtenant: Service America Operations: Not specified Start Date: Unknown Stop Date: Unknown (Present in 1989) Alaska Pride Baking Company, LLC Operations: Bakery Start Date: 7/19/1996 Stop Date: 9/12/2001 Marianne Pfeil-Lang Operations: Not specified Start Date: 9/12/2001 Stop Date: 10/5/2001 MMME, LLC (d/b/a Alaska Marble and Granite, Alaskan Wood Molding, Inc., Vallarie Ruzzio Design Studio) Operations: Light manufacture of natural stone and wood products Start Date: 10/5/2001 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-083**		
ARRC Contract No.	**7241**		
EPA Site Name	Pruhs Corp.		
Address	2183 Viking Drive		
Site Overview (narrative)	Site is located adjacent to, and south / upgradient of Ship Creek. Western half of site utilized for concrete batching operations. Environmental concerns related primarily to maintenance of construction equipment.		
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 83-1: Used Oil Collection Area - Two 55-gallon drums of used oil were observed in shop. These drums were stored on a secondary containment pad within the enclosed shop over concrete flooring. Drums in good condition and no leaks or spills were observed. SWMU 83-2: Oil/Water Separation System - Floor drains in the vehicle maintenance shop connect to an underground oil/water separator located beneath the floor of the shop. Sludge from the system had not been removed in over four years. SWMU 83-3: Outdoor Drum Storage Area - Seventeen drums were stored outdoors in the northern portion of the site. These drums were unlabeled and stored on wooden pallets over bare ground. Drums were rusted, but no visible leaks were observed.		
ARRC Comments Regarding RFA Description	No additional comments.		
Documented Releases	None.		
Summary of Analytical Data Results		**Soil ppm**	**Groundwater ppb**
	VOC	0.039-0.074	Not Available
	SVOC	2.7-3	Not Available
	DRO	3200-3700	Not Available
	GRO	Not Detected	Not Available
	BTEX	0.014-0.014	Not Available
	Chlorinated Solvents	Not Detected	Not Available
Investigation and/or Cleanup Actions Conducted	None.		
Agency Lead and Closure Status	No documentation.		
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Pruhs Corporation Operations: Office building, "any purpose" Start Date: 6/1/1997 Stop Date: To Present Subtenant: Alaska Basic Industries Operations: Concrete batch plant Start Date: 2001 Stop Date: To Present		

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-085**		
ARRC Contract No.	**7266**		
EPA Site Name	CBS Equipment		
Address	1300 Post Road		
Site Overview (narrative)	Site is located downgradient of the ARRC Railyard, upgradient of Ship Creek. Soil and groundwater contamination exist at site, and may be influenced by off-sight sources.		
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 85-1: Empty Drum Storage Area - A letter dated 1994 states that there were empty drums at the site which were being sorted through for possible reuse or disposal. No additional information about this former area is available. SWMU 85-2: Used Oil Accumulation Areas - 55-gallon drums stored on concrete flooring inside an enclosed building on the eastern portion of the site that accumulate used oil. Used oil is also accumulated in a drum inside the repair and paint shop, located on the western portion of the site. Drums in good condition and no leaks or spills were noted. SWMU 85-3: Outdoor Drum Storage Areas - Two 16-gallon drums were observed in the back of a trailer parked in the site yard. Drums were rusted and in poor condition. AOC 85-1: Outdoor Paint Area - Equipment is painted outside of the paint shop, which is located on the western portion of the site. The painting is performed over an unpaved surface. AOC 85-2: UST Excavation Area - A 2,000-gallon gasoline UST was removed from the site in 1992. Groundwater contains elevated levels of gasoline range organics and BTEX.		
ARRC Comments Regarding RFA Description	AOC 85-2 ADEC files list this site with LP-134. Observed fuel and solvents in groundwater are believed to be from an upgradient source north of the site. UST grant possibly used for the site.		
Documented Releases	None.		
Summary of Analytical Data Results		**Soil ppm**	**Groundwater ppb**
	VOC	Not Available	1.9-150
	SVOC	Not Available	15-15
	DRO	Not Available	100-1970
	GRO	Not Available	54-140,000
	BTEX	Not Available	0.28-77,400
	Chlorinated Solvents	Not Available	0.5-150
	Metals	Not Available	10-1870
Investigation and/or Cleanup Actions Conducted	1. Two 2,000-gallon USTs (gasoline and waste oil) removed from site (c. 1992). 2. Additional soil sampling associated with waste oil UST (1993). 3. Three groundwater monitoring wells installed at site (1995). 4. Phase I Environmental Site Assessment conducted on a portion of the site (1996). 5. NOV issued 1996 to C.R. Lewis by MOA for (unpermitted?) operation of salvage operation. 6. Groundwater Sampling (1997, 1998).		
Agency Lead and Closure Status	ADEC closure obtained for two USTs.		

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-085
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Columbia Lumber Company of Alaska Operations: Warehouse and lumber storage Start Date: 2/1/1951 Stop Date: 4/30/1969 Harold Stafford (d/b/a Stafford Industrial Supplies Co. and Stafford Engineering) Operations: Warehouse, office, labor contracting Start Date: 5/1/1969 Stop Date: 1/15/1971 Subtenant: Silvertip Enterprises, Inc. Operations: Unknown Start Date: Unknown Stop Date: Unknown (Present in 1969) Subtenant: Parcel Delivery and Transfer, Inc. Operations: Shipping business Start Date: Unknown Stop Date: Unknown (Present in 1969-1971) Industrial Development, Inc. Operations: Shipping business Start Date: 1/15/1971 Stop Date: 6/30/1980 C.R. Lewis Co., Inc Operations: Storage warehouse and office space for mechanical contractor Start Date: 7/1/1980 Stop Date: 1/10/1997 Subtenant: Department of Public Safety (portion-buildings on lot 69) Operations: Unknown Start Date: Unknown Stop Date: Unknown (Present in 1980) Subtenant: Northwestern Controls, Inc. Operations: Unknown Start Date: Unknown Stop Date: Unknown (Present in 1988) Subtenant: Alaska Grocery Shippers Operations: Not defined Start Date: Unknown Stop Date: Unknown (Present in 1993) Carl C. Black (d/b/a CBS Equipment) Operations: Equipment sales Start Date: 1/10/1997 Stop Date: To Present Subtenant: Jacobs Engineering (portion) Operations: Warehousing of tools and equipment Start Date: Unknown Stop Date: Unknown (Present in 2001)

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-089**	
ARRC Contract No.	**7361 / 8549**	
EPA Site Name	Rock Partners	
Address	319 E. Ship Creek Avenue	
Site Overview (narrative)	No environmental reports, records, or documents have been obtained for this property. The property is on the north side of East Ship Creek Road. The site was not investigated during the VSI because site personnel were not present.	
RFA SWMUs or AOCs as Identified by EPA and Description		
ARRC Comments Regarding RFA Description	No additional comments.	
Documented Releases and/or Environmental Issues	None.	
Summary of Analytical Data Results	**Soil ppm**	**Groundwater ppb**
	Not Available	Not Available
Investigation and/or Cleanup Actions Conducted	None.	
Agency Lead and Closure Status	Not documented.	
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Wolfe's Hardware and Furniture Operations: Warehouse Start Date: 4/16/1950 Stop Date: 1/15/1972 Wolfe's Department Store Operations: Warehouse, office, and storage Start Date: 4/16/1972 Stop Date: 3/31/1973 Gerald and Lavonne Wolfe Operations: Same Start Date: 4/1/1973 Stop Date: 8/13/1997 Subtenant: Movers World Van Lines Operations: Unknown Start Date: Unknown Stop Date: Unknown (Present in 1994) Rock Partners Operations: Warehousing Start Date: 8/13/1997 Stop Date: 8/23/2001 C.V. Wells, Jr. Operations: Warehousing Start Date: 8/23/2001 Stop Date: To Present Subtenant: General Services Administration Operations: Warehouse/Storage Start Date: 9/2001 Stop Date: To Present	

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-094**		
ARRC Contract No.	**7475**		
EPA Site Name	Alaska Soil Recycling (sic Alaska Basic Industries)		
Address	2301 Spar Avenue		
Site Overview (narrative)	Site historically utilized for heavy vehicle storage/office by trucking firm, followed by operations associated with management and thermal treatment of petroleum-contaminated soils. Operations/management shifted from Clean Soils Alaska to Alaska Soil Recycling in 1997.		
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 94-1: CSA Formerly-Operated Contaminated Soil Storage Pads - Large concrete pad with concrete berms and a smaller unbermed concrete pad used for the storage of contaminated soils. Numerous violations. SWMU 94-2: CSA Formerly-Operated Temporary Containment Area - Temporary containment area located in the northwest corner of the site for the storage of waste oil. Liners and berms were associated with this unit. The containers and liners have since been removed and disposed of. In addition, soil below the area was excavated to a depth of one foot below the liner. Contamination samples were not collected. SWMU 94-3: Storage Tank Formerly Used by CSA to Store Contaminated Water - A large storage tank, located south of the storage pad was full of contaminated water that was pumped from the contaminated storage pad. This unit has been removed from the facility. SWMU 94-4: ASR Concrete Pad for the Storage of Contaminated Soils - Two-acre pad constructed of concrete with epoxy grout and surrounded by a concrete berm of a height of 8 inches. Collects stormwater. Stormwater then pumped from the pad to an aboveground holding tank. Petroleum-contaminated soils are stockpiled on this pad prior to treatment at the site. SWMU 94-5: Stormwater Treatment System - 5,000-gallon aboveground storage tank for stormwater accumulation. From this holding tank, stormwater is directed to a carbon treatment system for the removal of contaminants. Clean water is accumulated in an aboveground, 10,000-gallon tank and used as process water.		
ARRC Comments Regarding RFA Description	This facility treats soil with petroleum contamination. It is managed by the owner/ operator and regulated, permitted, inspected, and monitored by ADEC.		
Documented Releases	None.		
Summary of Analytical Data Results		**Soil ppm**	**Groundwater ppb**
	DRO	0.36-446	160-160
	GRO	1.25-1.25	Not Detected
	BTEX	0.08-0.12	Not Detected
	Metals	Not Detected	Not Analyzed
	PCB	Not Detected	Not Analyzed
Investigation and/or Cleanup Actions Conducted	Subsurface Exploration (1992). Site Assessment Report (1997). Ad Hoc activities to evaluate nature/extent of subsurface contamination associated with CleanSoils activities (early 1998). Phase I Environmental Site Assessment (1998). Soil and Groundwater Investigation (1998). Three or four groundwater monitoring wells are sampled annually for petroleum constituents.		

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-094
Agency Lead and Closure Status	ADEC lead. Site believed to be conducting annual groundwater monitoring. Soil remediation activities operate under air quality permit with ADEC, which requires continuous emission monitoring. CSA has received 3 separate NOVs in 1996, and an additional NOV in 1997, all related to poor management practices for contaminated soil. CSA also issued "numerous NOVs regarding air quality" (RFA). Letter dated April 17, 1997 from Alaska Soil Recycling to ADEC outlined several tasks planned which would resolve outstanding environmental management issues for the site.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Alaska West Express Operations: Linehaul trucking operations Start Date: 5/1/1982 Stop Date: 12/29/1987 Progressive Transport, Inc. Operations: Linehaul trucking operations Start Date: 12/29/1987 Stop Date: 6/30/1991 Cleansoils, Inc. Operations: Soil decontamination/recycling and office Start Date: 4/1/1992 Stop Date: 4/10/1998 Alaska Basic Industries, Inc. Operations: Soil decontamination Start Date: 4/10/1998 Stop Date: To Present Subtenant: Denali Telecommunications Operations: Office space Start Date: 2/1/2000 Stop Date: Unclear (Present in 2002)

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-098**
ARRC Contract No.	**7566 / 8457**
EPA Site Name	Constance C. Hayden
Address	1224 Whitney Road
Site Overview (narrative)	No environmental reports, records, or documents have been obtained for this property. The property is on the south side of Whitney Road, adjacent to LP-116, Suburban Propane, and has been operated since 1947 by multiple tenants for warehousing and storage purposes. The site was not investigated during the VSI because site personnel were not present.
RFA SWMUs or AOCs as Identified by EPA and Description	
ARRC Comments Regarding RFA Description	No additional comments.
Documented Releases and/or Environmental Issues	None.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	Not Available / Not Available
Investigation and/or Cleanup Actions Conducted	None.
Agency Lead and Closure Status	Not documented.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** King Building Supply Operations: Lumber and building material warehouse and storage Start Date: 10/1/1952 Stop Date: 10/1/1965 at latest (file missing) Wayne W. Lofgren d/b/a Alaska Furniture Warehouse Operations: Warehouse and storage Start Date: 10/1/1965 Stop Date: 5/31/1975 Catherine and Julian Longoria and Karl V. Holmberg Operations: Warehouse and storage Start Date: 6/1/1975 Stop Date: 5/26/1989 C. Michael Hayden Operations: Warehouse and storage Start Date: 5/26/1989 Stop Date: 10/15/1998 Subtenant: Tesoro Alaska Petroleum Co. Operations: Building use only Start Date: 8/16/1990 Stop Date: 8/15/1995 Subtenant: Exxon USA Operations: Document storage Start Date: 6/15/1995 Stop Date: 6/14/2000

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-098
Lease Property History & Site Use (Continued)	**Tenants, Operators or Other PRPs:** Constance C. Hayden Operations: Warehouse and storage Start Date: 10/15/1998 Stop Date: 8/4/2002 4041 Airport, LLC Operations: Office and warehouse Start Date: 8/4/2002 Stop Date: To Present Subtenant: Home Depot USA Operations: Warehouse Start Date: 10/1/2002 Stop Date: 12/31/2004

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-107**
ARRC Contract No.	**6983**
EPA Site Name	Safety-Kleen, Inc. (Lease Terminated)
Address	155 West 1st Avenue (Anchorage Freight House)
Site Overview (narrative)	Site use primarily by ARRC. RFA states possible use by Safety Kleen for temporary storage / management of military-derived, non-regulated wastes has not been confirmed. No known environmental impacts at this site.
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 107-1: Waste Storage Area - Request for storage of non-regulated waste from military installations in Alaska before sending off for final disposal. Material proposed to store included drums of dirt, absorbents, or water contaminated with oil or antifreeze. It is unclear whether this request was granted and whether these types of waste materials have been stored at this site.
ARRC Comments Regarding RFA Description	The facility is described as office and warehouse.
Documented Releases	None.
Summary of Analytical Data Results	**Soil ppm** **Groundwater ppb**
	Not Available Not Available
Investigation and/or Cleanup Actions Conducted	Property is included in Phase I Environmental Site Assessment, Ship Creek Intermodal Transportation Center (February 2003).
Agency Lead and Closure Status	Not documented.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Safety-Kleen (GS), Inc. Operations: Office and storage space in warehouse plus outside parking Start Date: 4/20/1995 Stop Date: 12/31/2000 The Anchorage Freight House (aka Freight Shed) is a long, rectangular structure built in the 1940s for storage and handling of railroad freight. Its 32,000 sf is predominately open in architecture and accommodated numerous types of freight over the decades. It had a slab floor renovation in 1966, following earthquake damage, and an office annex was added in the 1980s for a current total of approximately 38,000 sf. It is impossible to determine all the different commodities that were stored in the facility since the beginning of active freight usage, as no leases or permits were issued for this sort of transloading activity in which railroad employees and the receiving customer collaborated. In addition, it has been used by the Alaska Railroad for self storage. A separating wall was erected in 1988, and this more secure storage space was occasionally leased to a third party such as the Safety-Kleen arrangement noted by EPA's 2002 RFA Report. The original facility has no floor drains. The added office space (which was also occupied by Safety-Kleen) has a code compliant sewer system. Safety-Kleen's tenure was from mid-1995 to12/31/2000. Other known users of the secure storage were Fleenor Paper Products (boxes) (1990-1992), Anchorage Daily News (newsprint), and Hectoliters, Inc. (brewpub supplies and forklift) (1999). Laidlaw Environmental used the office space for office purposes prior to Safety-Kleen (1995-1996). Except for limited temporary short-term storage, ARRC is the current user of the entire facility.

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-109**
ARRC Contract No.	**7045**
EPA Site Name	Beat's Walkin' Automotive
Address	1425 Viking Drive
Site Overview (narrative)	Site located downgradient of LP-014, and adjacent to and south of Ship Creek,
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 109-1: Used Oil Accumulation Area - Used oil, spent transmission fluid, and spent solvent are accumulated in an aboveground, 300-gallon plastic holding tank connected to an on-site "Black Gold" oil burner. This unit is located in an enclosed building over concrete flooring and is in good condition. No major leaks or spills were observed. SWMU 109-2: Spent Aerosol Can Accumulation Area - Spent aerosol cans are collected in a plastic garbage can stored inside the repair shop and disposed of off site. SWMU 109-3: Two Outdoor Drum Storage Areas - Two separate outdoor drum storage areas were observed at the site. The first drum storage area was located in the southeast corner of the site and contained nine drums. The second area was located in the southwest corner of the site. Many drums rusted, stacked, and leaning.
ARRC Comments Regarding RFA Description	No additional comments.
Documented Releases	None.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	Not Available / Not Available
Investigation and/or Cleanup Actions Conducted	None.
Agency Lead and Closure Status	Not documented.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Frederick L. Costella (d/b/a Industrial Cleaning Services) [Also intermittent partners named Robert Bruce Burnett and Danny O. Whitaker in 1974-1975] Operations: Cleaning and washing trucks and heavy equipment, including sandblasting, painting and minor repair Start Date: 4/1/1972 Stop Date: 3/31/1976 Barry Woods Enterprises, Inc. Operations: Construction equipment retail sales and concrete cutting business Start Date: 4/1/1976 Stop Date: 3/31/1981 Thomas Oyster and Arden Anderson Operations: Truck repair shop Start Date: 4/1/1981 Stop Date: 9/30/1995 Subtenant: Ugly Brothers Operations: Not specified Start Date: Unknown Stop Date: Unknown (Present in 1995)

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-109
Lease Property History & Site Use (Continued)	**Tenants, Operators or Other PRPs:** Dennis French and Arden Anderson Operations: Vehicle repair shop Start Date: 10/1/1995 Stop Date: To Present Subtenant: Dwight Grosnickle (d/b/a A&A Services) Operations: Not specified Start Date: Unknown Stop Date: Unknown (Before 2001) Subtenant: Beat's Walkin' Automotive Operations: Auto repair Start Date: Unknown (Present in 2001) Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-110**
ARRC Contract No.	**7085**
EPA Site Name	Bob Benson Trucking
Address	2400 (2332) Railroad Avenue
Site Overview (narrative)	Site is technically part of the Standard Steel Superfund Site. However, the former junkyard/remediation cell is to the south of what was the K&T/Bob Benson Trucking site observed during the VSI. This northerly part of the site was historically used for warehouse and storage, construction, theater storage, and trucking/truck maintenance. The remediation cell area is now part of the lease premises and used by Benson for truck parking and storage under institutional controls imposed by the EPA. The site is upgradient of Ship Creek.
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 110-1: Used Oil Accumulation Area and Burner - 55-gallon drums used to store used oil. This is an aboveground tank located in the repair shop over concrete flooring and is connected to an oil burner. Minor leaks and spills were noted in this area. SWMU 110-2: Antifreeze Accumulation Area - 300-gallon square, plastic container to collect used antifreeze. Two drums of residue were stored in the northwest corner of the shop. SWMU 110-3: Temporary Container Storage Area - Five unlabeled 55-gallon drums were observed on the ground at the southeast corner of the former Standard Steel site adjacent to Bob Benson Trucking. Drums were rusted. No leaks were observed. Area is approximately 50 yards upgradient from Ship Creek.
ARRC Comments Regarding RFA Description	No additional comments.
Documented Releases	None.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	GRO: Not Detected / Not Available
	BTEX: Not Detected / Not Available
Investigation and/or Cleanup Actions Conducted	1. 1992 UST removal, no record of completed site assessment (inactive status?). 2. 1995 UST removal, along with excavation of 60 cyds of soil, apparently closed by ADEC.
Agency Lead and Closure Status	ADEC. USTs removed, one apparently inactive, one apparently closed.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Munter Construction Operations: Construction Start Date: Unknown Stop Date: Unknown (Prior to 11/1/1954) Graymark Distributors (d/b/a K&L Distributors) Operations: Warehousing Start Date: 11/1/1954 Stop Date: 11/30/1961 Griffith Pipe & Supply Co., Inc. Operations: Warehousing, storage Start Date: 12/1/1961 Stop Date: 1/15/1973

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-110
Lease Property History & Site Use (Continued)	**Tenants, Operators or Other PRPs:** Stano Steel & Metal Co., Inc. Operations: Warehousing, storage, offices associated with junkyard to the immediate south Start Date: 6/1/1973 Stop Date: 5/31/1982 Subtenant: Municipality of Anchorage Operations: Storage space for Repertory Theater (building only) Start Date: Unknown Stop Date: Unknown (Present in 1978) Ben Lomond, Inc. Operations: Warehouse and office Start Date: 6/1/1982 Stop Date: 8/31/1993 K&T Enterprises Operations: Warehouse, truck maintenance and storage Start Date: 10/1/1995 Stop Date: To Present Subtenant: Bob Benson Trucking Co. (portion) Operations: Trucking company maintenance and operations Start Date: 2/9/1998 Stop Date: To Present Subtenant: DiTomaso (portion) Operations: Trailer storage for wholesale grocer Start Date: Unknown Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-112**
ARRC Contract No.	**7207 / 8639**
EPA Site Name	Whitney Express (sic Whitney Enterprises)
Address	1101 E. Whitney Road
Site Overview (narrative)	No environmental reports, records, or documents have been obtained for this property. Little known about site. No hazardous materials utilized or generated at this location. Although the RFA states that groundwater impacts were detected at this site (part of larger Whitney Road plume), no soil or groundwater samples have been identified as originating from this site.
RFA SWMUs or AOCs as Identified by EPA and Description	AOC 112-1: Site Groundwater - Site groundwater. However, Environmental Site Assessment indicates no hazardous raw material or hazardous waste was generated or stored at this site. Building not inspected because personnel not present. Nature and extent of groundwater contamination has not been defined, nor has remediation been conducted.
ARRC Comments Regarding RFA Description	AOC - 1 [AOC 112-1] Reference to 1999 report that groundwater is contaminated with petroleum constituents, solvents, and metals is in error. The RFA reference does not state that groundwater at the site is contaminated or even that the site was part of the investigation described.
Documented Releases	None.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	Not Available / Not Available
Investigation and/or Cleanup Actions Conducted	None.
Agency Lead and Closure Status	Not documented.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Wolfe's Department Store Operations: Initially retail furniture, etc; then warehouse site, building materials wholesale Start Date: 1/1/1957 Stop Date: 8/31/1960 Pfeil & Company, Inc. Operations: Warehousing, storage Start Date: 1/1/1961 Stop Date: 12/31/1962 Western Supply, Inc. Operations: Cold storage and processing facility Start Date: 3/1/1964 Stop Date: 8/31/1964 BRRR, Inc. (possibly aka Western Supply) Operations: Cold storage and processing facility Start Date: 9/1/1964 Stop Date: 9/20/1996 Subtenant: Alaska Wholesale, Inc. Operations: Unknown Start Date: Unknown Stop Date: Unknown (Present in 1971)

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-112
Lease Property History & Site Use (Continued)	**Tenants, Operators or Other PRPs:** Whitney Enterprises Operations: Warehouse building for lease Start Date: 9/20/1996 Stop Date: 7/1/2003 Subtenant: Impact Development & Construction Operations: Storage of furniture and materials during remodeling Start Date: 12/1/1997 Stop Date: 5/30/1998 Subtenant: Sagaya Corp. Operations: Warehouse for grocery Start Date: 7/17/2002 Stop Date: 7/1/2003 Paul Reid (d/b/a Sagaya Properties) Operations: Warehouse for grocery Start Date: 7/1/2003 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-115**
ARRC Contract No.	**7357 (Assigned) / 8258**
EPA Site Name	Technic Services, Inc.
Address	101 N. Post Road
Site Overview (narrative)	Limited environmental reports, records, or documents have been obtained for this site. RFA states that asbestos was temporarily stored at the site and that oily waste was generated.
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 115-1: Asbestos Storage Area - Asbestos was temporarily stored at the site and oily wastes were generated. No information about the areas where these wastes were stored was found in file material. Unit is unoccupied and these former SWMUs could not be investigated.
ARRC Comments Regarding RFA Description	No additional comments.
Documented Releases	None.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	Not Available / Not Available
Investigation and/or Cleanup Actions Conducted	None.
Agency Lead and Closure Status	Not documented.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** J&J Company Operations: Warehouse and storage Start Date: 11/1/1963 Stop Date: 10/5/1981 Dennis and Joy L. O'Neil Operations: Warehouse, storage, and retail sales Start Date: 11/1/1981 Stop Date: 6/30/1984 Subtenant: Alaska Industrial Hardware Operations: Not specified Start Date: Unknown Stop Date: Unknown Commercial Development Operations: Warehousing, storage, wholesale/retail sales of hardware, industrial supplies Start Date: 7/1/1984 Stop Date: 9/30/1997 Subtenant: Ann E. Cook (d/b/a Golden Mermaid) Operations: Topless dancing Start Date: 4/1/1992 Stop Date: 3/4/1997 Technic Services, Inc. Operations: General contracting and retail sales (motorcycles) Start Date: 10/1/1997 Stop Date: 7/7/2001

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-115
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Josef F. Boehm (d/b/a Commercial Development) Operations: Not specified Start Date: 7/7/2001 Stop Date: 9/27/2001 Robert Burnett Operations: Commercial tool supply Start Date: 9/27/2001 Stop Date: To Present Subtenant: B&B Tool Supply Operations: Commercial tool supply Start Date: 10/1/2001 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-120**		
ARRC Contract No.	**7654**		
EPA Site Name	KAPP LLC d/b/a Hobbs Industries		
Address	229 Whitney Road		
Site Overview (narrative)	Former Knik Arm Power Plant, operated from 1950s - 1985, occupies this site. Site has substantial exposure on north to ARRC railyard operations, and is adjacent to Ship Creek to the south. Conveyance and storage features for collection of make up water / discharge of cooling water have substantially altered the Ship Creek riparian area. Discharges of contaminants to the Ship Creek area are suspected from this site. Site was subject of Targeted Brownfields Assessment Report in Nov 1999, which provides excellent historical information.		
RFA SWMUs or AOCs as Identified by EPA	SWMU 120-1: Outdoor Container Area at KAPP Permit Area - Permit storage area for drums and non-PCB transformers located adjacent to and east of the leased area. Unlabeled containers, one unlabeled open drum containing oil, and two full drums of unknown contents, were observed. These drums were rusted and in poor condition. About 50 small, non-PCB and two large, non-PCB transformers were also stored in this area. SWMU 120-2: Outdoor Container Area at KAPP Lease Area - Lease area located at the southwest corner of the main building. Unlabeled containers and 50 drums of various materials were noted. The drums were stored outdoors over wooden pallets on top of bare ground. Drums were in poor condition; some were rusted, and some were ruptured and visibly leaking onto the ground. AOC 120-1: Transformer Spill Area - A transformer spill incident occurred in 1998. EPA collected samples of soil, surface water, groundwater, and sediment.		
ARRC Comments Regarding RFA Description	AOC 120-1 two issues: 1) This release of non-PCB oil was investigated, remediated, and received a NFA letter from ADEC; 2) Targeted Brownfields Assessment included misinformation regarding metals - naturally occurring in soil - present from sediment in groundwater samples.		
Documented Releases	1. Two diesel USTs removed from site in 1990, each 10,000- or 20,000-gallon capacity. During removal, ADEC noted "presence of significant amounts of petroleum contaminated soil." 2. In 1998, vandalism resulted in release of 2,400 gallons of transformer oil containing PCBs, resulting in suspected releases to Ship Creek. Recovery estimates range from 1,100 to 1,900 gallons. 3. Three dry wells have been identified, and were: 1) used for collection of floor drainage in the diesel power plant; 2) connected to main power plant and associated with use / disposal of batteries in the main power plant; and 3) connected to septic / sewer system.		
Summary of Analytical Data Results		**Soil ppm**	**Groundwater ppb**
	VOC	0.00097-0.14	0.63-1.8
	SVOC	0.0011-610	0.52-1.3
	TPH	8.54-764	400-418,100
	DRO	0.012-2100	1050-19,000
	GRO	5-80	Not Detected
	BTEX	0.00007-7.42	0.71-339
	Chlorinated Solvents	0.0022-0.0226	0.4-0.4
	Metals	0.0056-33,700	0.052-181,000
	PCB	0.057-0.057	Not Detected
	Dioxin	0.00000033-0.00064	Not Analyzed

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-120
Investigation and/or Cleanup Actions Conducted	1. Site Inspection of Railyard / Ship Creek (for ARRC, 1985). 2. Environmental Assessment (for Hobbs Industries, 1990). 3. UST Closures and Site Characterization (for Hobbs Industries, 1990). 4. ADEC provided NFA letter for UST-related contamination October 1991. 5. Environmental Soil Sampling (for Chugach Electric Assoc., 1991). 6. Ship Creek Targeted Brownfields Assessment Report (for USEPA, 1999). 7. Site Investigation Report, KAPP Diversion Pond Sediment Sampling and Analysis (for KAPP, 2000).
Agency Lead and Closure Status	ADEC closed UST sites in 1991.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Chugach Electric Association Operations: Operation of electric power and steam plant known as Knik Arm Power Plant Start Date: 4/14/1960 Stop Date: 3/25/1991 Subtenant: Hobbs Industries, Inc. Operations: Unknown Start Date: 6/7/1989 Stop Date 3/25/1991 Hobbs Industries, Inc. Operations: Not Defined Start Date: 3/25/1991 Stop Date: 3/30/1999 KAPP, LLC Operations: Efforts to begin power production, flour milling Start Date: 3/30/1999 Stop Date: To Present Subtenant: Hobbs Industries Operations: Not Defined Start Date: Unknown Stop Date: Unknown (Present in 2001) Subtenant: 3-Way Electric Operations: Not Defined Start Date: Unknown Stop Date: Unknown (Present in 2001) Subtenant: Beeson Mechanical Operations: Not Defined Start Date: Unknown Stop Date: Unknown (Present in 2001) Subtenant: Marlow Development Operations: Not Defined Start Date: Unknown Stop Date: Unknown (Present in 2001) Subtenant: Marlow Construction Operations: Not Defined Start Date: Unknown Stop Date: Unknown (Present in 2001)

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-124**
ARRC Contract No.	**7707**
EPA Site Name	Alma Corp.
Address	222 East Ship Creek Avenue
Site Overview (narrative)	No environmental reports, records, or documents have been obtained for this property. The property is on the south side of East Ship Creek Avenue and, as reported in the RFA, has been operated as a storage facility. The site was not investigated during the VSI because site personnel were not present.
RFA SWMUs or AOCs as Identified by EPA and Description	
ARRC Comments Regarding RFA Description	No additional comments.
Documented Releases and/or Environmental Issues	None.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	Not Available / Not Available
Investigation and/or Cleanup Actions Conducted	None.
Agency Lead and Closure Status	Not documented.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** William Mellisn and Elmer Priest Operations: Unknown Start Date: 8/1/1946 Stop Date: Unknown (Prior to 8/1962) Tazlina Building Co, Inc. Operations: Warehouse and storage of building materials Start Date: 8/1/1962 Stop Date: 7/31/1979 Alma Corp. Operations: Office, warehouse, and storage of hotel/apartment supplies and furnishings Start Date: 8/1/1979 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-125**		
ARRC Contract No.	**7018 / 7733**		
EPA Site Name	Judith Kobbs and Linda Taylor		
Address	1825 Ship Avenue / 1800 Viking Drive		
Site Overview (narrative)	Large site with frontage on both Viking and Ship Avenues. Primary site improvement is Quonset hut building on east end of site. Potential impacts associated with four former USTs, and accumulation and management of waste oil/antifreeze.		
RFA SWMUs or AOCs as Identified by EPA	SWMU 125-1: Used Oil and Antifreeze Accumulation area and Oil Burner at L&J Cabs - 55-gallon drums used to accumulate used oil and antifreeze that are then transferred to an off-site, used oil burner. Five 55 gallon drums of used oil were stored outside and adjacent to the front of the shop. Drums stored on an asphalt surface and in good condition. SWMU 125-2: Wastewater System - Wastewater from the site drains through floor drains, but unknown where the floor drains discharge. SWMU 125-3: Used Oil and Antifreeze Accumulation Area at CPR Automotive - 55-gallon steel drums stored in the shop accumulate used oil and antifreeze. These waste management units were observed to be in good condition and no major leaks or spills were observed.		
ARRC Comments Regarding RFA Description	Noted that lessee prior to 1985 was FRA not ARRC.		
Documented Releases	None.		
Summary of Analytical Data Results		**Soil ppm**	**Groundwater ppb**
	VOC	Not Detected	Not Detected
	SVOC	Not Detected	Not Analyzed
	TPH	10.2-1520	Not Analyzed
	BTEX	0.0061-0.019	12.7-137
	Chlorinated Solvents	0.0113-0.0113	Not Detected
	Metals	4.3-30.6	Not Analyzed
	PCB	0.03-0.32	Not Analyzed
Investigation and/or Cleanup Actions Conducted	Two former 5,000-gallon gasoline USTs removed (1989). One former 1,000-gallon gasoline UST removed (1989). One former 1,000-gallon diesel UST removed (1989). Letter from ARRC to ADEC requesting site closure based on contaminated sites score of 0 (1996). MOA issued NOV for operation of salvage yard (1996).		
Agency Lead and Closure Status	ADEC lead. Closure requested by ARRC in 1996, but not clear whether NFA obtained.		
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Industrial Air Products Operations: Industrial and medical gases, welding and cutting equipment and supplies Start Date: 1/1/1967 Stop Date: 5/31/1967 W.R. Grasle Company Operations: Warehouse, storage, and office for electrical company Start Date: 6/1/1971 Stop Date: Unknown		

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-125
Lease Property History & Site Use (Continued)	**Tenants, Operators or Other PRPs:** Subtenant: S.S. Mullen Operations: Not Specified Start Date: 11/1/1975 Stop Date: 10/31/1977 Shelly Equipment Rental, Inc. / Alaska Line Construction Operations: Warehouse, storage, and office site Start Date: 10/1/1987 Stop Date: 3/1989 Randall L. Pope (d/b/a Midnight Mushroom Company) Operations: Not Specified Start Date: 6/1/1989 Stop Date: 7/1990 Restaurant Savers (portion) Operations: Storage of new and used restaurant equipment and building materials Start Date: 11/15/1991 Stop Date: 4/23/1993 Commercial Body & Paint (portion) Operations: Truck and body shop Start Date: 4/23/1993 Stop Date: 7/31/1993 Kevin Cox (d/b/a Commercial Body & Paint) (portion) Operations: Sandblasting and painting Start Date: 8/1/1993 Stop Date: 6/15/1995 D&J's Towing (portion) Operations: Towing Start Date: 1993 Stop Date: 1993 Judith Kobbs and Linda Taylor (all) Operations: Leasing and maintenance of taxi cabs, trailer sales, and storage of vehicles Start Date: 6/15/1995 Stop Date: 8/15/2000 Linda Taylor (d/b/a L&J Cabs) Operations: Leasing and maintenance of taxi cabs, trailer sales, and storage of vehicles Start Date: 6/23/1999 Stop Date: To Present Subtenant: B&J Leasing, Inc. (portion) Operations: Vehicle leasing Start Date: 7/1/1999 Stop Date: 6/30/2001

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-127**
ARRC Contract No.	**7745**
EPA Site Name	Post Road Co - Tenancy
Address	200/250 Post Road
Site Overview (narrative)	Site with numerous historical tenants and subleases. Primary operations of interest include electrical motor maintenance/transformer repair (Westinghouse, 1960s) and paint manufacturing (Kelley Moore Paint Co., 1997-1999). Located immediately north of and adjacent to Ship Creek riparian area.
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 127-1: Temporary Storage Area for Waste Ballasts at JL Properties - Waste ballasts were temporarily stored inside the building located at 200 Post Road. SWMU 127-2: Drum Storage Area 1 at Swalling - Four steel, 55-gallon drums were observed at the northeast corner of the building located at 250 Post Road. Drums were unlabeled, full, dented, and uncovered and stored over bare ground. Drums contain soil cuttings generated during sampling performed during the Phase I Assessment. SWMU 127-3: Drum Storage Area 2 at Swalling - Two drums of waste thinner were observed inside the small shop that fronts the east side of the building at 250 Post Road. Drums in good condition and leaks or spills were not observed. SWMU 127-4: Drum Storage Area 3 at Swalling - Large area containing numerous containers was observed along the south side of the building located at 250 Post Road. Container in poor condition. This area is on the banks of Ship Creek. SWMU 127-5: Spent Abrasive Disposal Area at Swalling - Sandblasting shed is located along the northern border of the property. Spent abrasive blast is allowed to collect on the ground during sandblasting operations. SWMU 127-6: Drum Storage Area 4 at Swalling - To the west of the building located at 250 Post Road, a group of containers was observed. Drums contained used oil and were in poor condition. Methyl ethyl ketone, hydraulic oil, and "red lead-danger." SWMU 127-7: Drum Storage Area 5 at Swalling - Three 55-gallon drums and two 5-gallon buckets containing used oil were observed inside a shop that fronts the north side of the building located at 250 Post Road. Area in good condition and no leaks or spills were noted. SWMU 127-8: Historical Injection Well - An unpermitted injection well was installed at site and was connected to the floor drain of one of the outbuildings at the rear of the site. No additional information about this unit is available. SWMU 127-9: Red Lead Waste Disposal Area - "Red lead" waste was lead paint removed by sandblasting at remote locations. This waste was transported back to the Swalling yard and mixed with cement to make parking bumpers. AOC 127-1: Hardened Paint Spot on Ground at Swalling - A release of material that appeared to be paint was noted on the ground in front of the small shop that fronts the east side of building at 250 Post Road. Paint residue was hardened and spread out over an area of approximately 5 square feet. AOC 127-2: Creosote Piling Staging Area - A large pile of creosote piling heavy timer beams was observed on the ground along the northern fence line. Pilings covered an area of approximately 20 feet long by 20 feet wide.

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-127		
ARRC Comments Regarding RFA Description	SWMU 127-4 ADEC file review indicates a groundwater management and cleanup plan have been approved by ADEC. Multiple sampling events. Adding corrective action is duplicative and unwarranted. AOC 127-2 Storage of creosote-treated pilings on the ground. This is not of concern - normal use of piling is direct placement into the ground. No factual grounds for release.		
Documented Releases	None.		
Summary of Analytical Data Results		Soil ppm	Groundwater ppb
	VOC	0.018-0.13	1.04-140
	SVOC	Not Detected	10-270
	TPH	Not Analyzed	Not Detected
	DRO	24.9-480	335-2220
	GRO	180-180	Not Detected
	BTEX	Not Detected	7.6-3170
	Chlorinated Solvents	0.02-6.5	1.2-6.5
	Metals	0.037-94	2.4-5700
	PCB	0.61-40	Not Detected
Investigation and/or Cleanup Actions Conducted	1. Early 1990s - USTs removed. 2. Contaminant Assessment Report, 1991. 3. Interim Remedial Action Report, 1992. 4. Remedial Action Report, 1993. 5. TCE Contaminated Soil Assessment, 1999. 6. Additional TCE Contaminated Soil Assessment, 1999. 7. Remedial Action Feasibility Study and Work Plan, 2002. 8. Remedial Action Investigation, 2003. 9. Five groundwater monitoring wells reported on site.		
Agency Lead and Closure Status	1. ADEC lead with active management by Kelly- Moore Paint Co. 2. In 1993, ADEC issued letter providing for NFA to AMFAC Warehouse based on low PCB levels, diesel levels near cleanup limit, and concerns re impacts to Ship Creek wetlands / riparian areas from further excavation. 3. HC summary states that PCB cleanup standard has been reduced from 10 mg/kg to 1 mg/kg. 4. Kelly-Moore Paint Store and Warehouse considered "Active" by ADEC.		
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Anchorage Sand & Gravel Operations: Not Specified Start Date: Unknown Stop Date: Unknown (Before 6/1959) Northern Supply Operations: Store, warehouse, and storage site Start Date: 6/1/1959 Stop Date: 8/31/1962 HA Faroe & Doris Faroe Operations: Store, warehouse, and storage site Start Date: 9/1/1962 Stop Date: 9/30/1981 Subtenant: Westinghouse Operations: Not Specified Start Date: 10/1/1965 Stop Date: 10/1/1971		

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-127
Lease Property History & Site Use (Continued)	**Tenants, Operators or Other PRPs:** Subtenant: Northern Supply Operations: Store, warehouse, and storage site Start Date: 1/1/1971 Stop Date: Unknown Subtenant: Amfac Supply Operations: Not Specified Start Date: Unknown Stop Date: Unknown (Present in 1976 through 1981) C.H. Wirum and Mary Lou Wirum (later family trust) Operations: Warehousing and storage and offices for retail and wholesale business (Subleasing) Start Date: 11/1/1981 Stop Date: 3/28/1997 Subtenant: Amfac Mechanical Supply Operations: Not Specified Start Date: Unknown Stop Date: Unknown (Present in 1988) Subtenant: Iron Oak Supply Operations: Not Specified Start Date: 1988 Stop Date: 1989 Subtenant: Preservative Paint Company Operations: Paint Company Start Date: 4/5/1991 Stop Date: 3/30/1996 Subtenant: Mike Swalling (d/b/a Swalling Construction) Operations: Construction Company Start Date: 8/1/1992 Stop Date: 8/1993 Subtenant: Alaska Builders Cache Operations: Not Specified Start Date: 4/1/1994 Stop Date: 10/17/1995 Mariners View Limited Partnership Operations: Warehousing and storage and offices for retail and wholesale business Start Date: 3/28/1997 Stop Date: 5/16/1997 611, LLC Operations: Warehousing and storage and offices for retail and wholesale business Start Date: 5/16/1997 Stop Date: 7/17/1997 Kelly-Moore Paint Company Operations: Warehousing and storage and offices for retail and wholesale businesses / manufacture and sales of paint Start Date: 7/17/1997 Stop Date: 9/17/1999 Post Road Co-Tenancy Operations: Office/warehouse Start Date: 9/17/1999 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-127
Lease Property History & Site Use (Continued)	**Tenants, Operators or Other PRPs:** Subtenant: Swalling Construction Operations: Construction Start Date: Unknown Stop Date: Unknown (Present in 2001 and 2003) Subtenant: JL Properties Operations: Not Specified Start Date: Unknown Stop Date: Unknown (Present in 2001) Subtenant: Builders Millwork Supplies Operations: Not Specified Start Date: Unknown Stop Date: Unknown (Present in 2001) Subtenant: Purely Alaskan Water Operations: Not Specified Start Date: Unknown Stop Date: Unknown (Present in 2001) Subtenant: Pruhs Operation: Unknown Start Date: Unknown Stop Date: Unknown (Present in 2003)

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-128**
ARRC Contract No.	**7789**
EPA Site Name	Fred T. Wade, d/b/a Seamless Flooring Systems
Address	321 E. Ship Creek Ave.
Site Overview (narrative)	No environmental reports, records, or documents have been obtained for this site. Site utilized for warehouse, storage, retail operations in association with flooring businesses. Materials stored / abandoned by previous tenants requires management / disposal.
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 128-1: Container Storage Area - A collection of containers of paint (primarily latex), stain, carbothane, urethanes, and floor rock (containing toluene, diisocyanate, and xyol) were stacked in the northeast corner of the building. Materials were left at site by previous occupant and have been stored there since 1987. No leaks or spills were observed from these containers.
ARRC Comments Regarding RFA Description	No additional comments.
Documented Releases	None.
Summary of Analytical Data Results	**Soil ppm** / **Groundwater ppb**
	Not Available / Not Available
Investigation and/or Cleanup Actions Conducted	None.
Agency Lead and Closure Status	Not documented.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Sullens & Hoss, Inc. Operations: Warehouse site (warehouse never constructed) Start Date: 9/1/1949 Stop Date: 8/31/1955 Fabra Insulation, Inc. Operations: Industrial insulation sales and service Start Date: 11/1/1957 Stop Date: 1/28/1960 Ronald Martin Operations: Warehouse and storage site Start Date: 2/1/1960 Stop Date: 6/30/1963 Service Stores, Inc. Operations: Warehouse and storage site Start Date: 7/1/1963 Stop Date: 10/31/1982 Loyd R. and Janet L. Messerli (d/b/a Seamless Systems) Operations: Warehouse, storage, and office site Start Date: 11/1/1982 Stop Date: 10/31/1998 Subtenant: Service Stores, Inc. Operations: Warehouse, storage, and office site Start Date: 11/1/1982 Stop Date: Unknown

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-128
Lease Property History & Site Use (Continued)	**Tenants, Operators or Other PRPs:** Daniel Fussner (d/b/a the Finished Edge) Operations: Not Specified Start Date: 5/1999 Stop Date: 10/1999 Fred T. Wade (d/b/a Seamless Flooring Systems) Operations: Equipment storage and office space Start Date: 11/1/1999 Stop Date:To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-131**		
ARRC Contract No.	**7880**		
EPA Site Name	Alaska Sheet Metal		
Address	568 E. Whitney Road		
Site Overview (narrative)	Property initially utilized by ARRC for storage (Dames and Moore report, 1995). Lease operations initiated in '53; site used since that time for wood milling, warehouse / storage / office functions, electrical equipment repair (?) and mechanical contracting. Building constructed in 1972, and site reportedly covered with asphalt in "the '70s." Site is located along Whitney Road, downgradient of Railyard, and in vicinity of Whitney Road Floating Product investigation performed in 1999. Site is adjacent and north of the Ship Creek riparian area.		
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 131-1: Used Oil Accumulation Areas - The used oil accumulation drum is a 55-gallon drum that is stored outside over asphalt in the southeast corner of the site. Areas in good condition and no leaks or spills were observed. SWMU 131-2: Formerly Operated Building Floor Drains and Sump - Building constructed in 1972 contained three floor drains which were directed to a sump. Transformers were assembled in the building. Drains and sump were used to capture wastewater within the building. When vacated, drains and sump were not all cleaned. During the baseline soil assessment performed in 1995, the sump was filled with water. No additional information regarding the status of this unit is available. SWMU 131-3: Formerly Operated Sandblast Room - A sandblast room is noted on the map in the baseline soil assessment report. However, no information on this operation was found in file material. This unit is no longer operated and no information was available concerning the former operation of this unit. AOC 131-1: Formerly Operated HazMat Storage Area - A HazMat storage area was noted in the baseline soil assessment report. This unit is no longer operated.		
ARRC Comments Regarding RFA Description	The RFA incorrectly states that ARRC is the lessor to Lenore M. Clilnton (leasee) in 1971. The lessor was the federal Alaska Railroad.		
Documented Releases	None.		
Summary of Analytical Data Results		**Soil ppm**	**Groundwater ppb**
	VOC	Not Detected	Not Available
	TPH	60.8-17,200	Not Available
	DRO	22.1-5250	Not Available
	GRO	Not Detected	Not Available
	BTEX	Not Detected	Not Available
	Chlorinated Solvents	Not Detected	Not Available
	Metals	0.41-31	Not Available
	PCB	0.04-12	Not Available
Investigation and/or Cleanup Actions Conducted	Phase I Site Assessment (1994). Soil Baseline Sampling (1995). Additional Soil Sampling (1996). Letter from ADEC to Eastern Electric (1997) requesting corrective action work plan.		

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-131**		
ARRC Contract No.	**7880**		
EPA Site Name	Alaska Sheet Metal		
Address	568 E. Whitney Road		
Site Overview (narrative)	Property initially utilized by ARRC for storage (Dames and Moore report, 1995). Lease operations initiated in '53; site used since that time for wood milling, warehouse / storage / office functions, electrical equipment repair (?) and mechanical contracting. Building constructed in 1972, and site reportedly covered with asphalt in "the '70s." Site is located along Whitney Road, downgradient of Railyard, and in vicinity of Whitney Road Floating Product investigation performed in 1999. Site is adjacent and north of the Ship Creek riparian area.		
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 131-1: Used Oil Accumulation Areas - The used oil accumulation drum is a 55-gallon drum that is stored outside over asphalt in the southeast corner of the site. Areas in good condition and no leaks or spills were observed. SWMU 131-2: Formerly Operated Building Floor Drains and Sump - Building constructed in 1972 contained three floor drains which were directed to a sump. Transformers were assembled in the building. Drains and sump were used to capture wastewater within the building. When vacated, drains and sump were not all cleaned. During the baseline soil assessment performed in 1995, the sump was filled with water. No additional information regarding the status of this unit is available. SWMU 131-3: Formerly Operated Sandblast Room - A sandblast room is noted on the map in the baseline soil assessment report. However, no information on this operation was found in file material. This unit is no longer operated and no information was available concerning the former operation of this unit. AOC 131-1: Formerly Operated HazMat Storage Area - A HazMat storage area was noted in the baseline soil assessment report. This unit is no longer operated.		
ARRC Comments Regarding RFA Description	The RFA incorrectly states that ARRC is the lessor to Lenore M. Clilnton (leasee) in 1971. The lessor was the federal Alaska Railroad.		
Documented Releases	None.		
Summary of Analytical Data Results		**Soil ppm**	**Groundwater ppb**
	VOC	Not Detected	Not Available
	TPH	60.8-17,200	Not Available
	DRO	22.1-5250	Not Available
	GRO	Not Detected	Not Available
	BTEX	Not Detected	Not Available
	Chlorinated Solvents	Not Detected	Not Available
	Metals	0.41-31	Not Available
	PCB	0.04-12	Not Available
Investigation and/or Cleanup Actions Conducted	Phase I Site Assessment (1994). Soil Baseline Sampling (1995). Additional Soil Sampling (1996). Letter from ADEC to Eastern Electric (1997) requesting corrective action work plan.		

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-131
Agency Lead and Closure Status	ADEC; classified as "Inactive" in contaminated sites database. April 11, 1997 letter from ADEC to Eastern Electric requested development and submittal of corrective action workplan; Eastern Electric sent letter declining to complete corrective action, indicating that others likely caused site contamination.
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** A.W. Hugill Operations: Warehouse and storage space for lumber and building material Start Date: 6/1/1953 Stop Date: 10/31/1961 Structures Incorporated Operations: Warehouse and storage site for general construction Start Date: 4/1/1964 Stop Date: 8/31/1971 J.R. Clinton Co. Employee Pension and Trust Operations: Warehouse storage site and office spaces Start Date: 9/1/1971 Stop Date: 3/30/1973 Lenore M. Clinton Operations: Warehouse storage site and office spaces Start Date: 4/1/1973 Stop Date: 1/10/1996 Subtenant: Westinghouse Apparatus Service Division Operations: Not Specified Start Date: Unknown Stop Date: Unknown (Present in 1983) Subtenant: Eastern Electric Apparatus Service Division Operations: Not Specified Start Date: Unknown Stop Date: Unknown (Present in 1987 to 1996) J.K.C. Properties Operations: Sheet metal shop and office Start Date: 1/10/1996 Stop Date: 4/24/2000 Subtenant: Alaska Sheet Metal (subsidiary of Superior Plumbing and Heating, Inc.) Operations: Sheet metal shop and office Start Date: 1996 Stop Date: 2002 I.F.R., LLC Operations: Rental to mechanical contractor Start Date: 4/24/2000 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-134**		
ARRC Contract No.	**7904**		
EPA Site Name	HW Alaska, LLC		
Address	1500 Post Road		
Site Overview (narrative)	To avoid confusion regarding this site and LP-085 -- note that although both leased by C.R. Lewis, this site and LP-085 (1300 Post Road) are separate lease properties. Site includes several improvements, including storage shed, sheet metal fab shop, former fueling station, and offices. Site is adjacent to and upgradient / immediately north of Ship Creek.		
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 143-1: Drum Storage Area No. 1 - Two 55-gallon drums were observed in the western wing of the main building. Drums in good condition and leaks or spills were not observed. SWMU 134-2: Drum Storage Area No. 2 - Two rusted drums were stored outside to the north of the western wing of the main building. Drums contain soil from the gasoline UST excavation. SWMU 134-3: Drum Storage Area No. 3 - Three rusted drums were stored outside to the north of the western wing of the main building. Drums labeled perchloroethylene and hydraulic oil. SWMU 134-4: Sump System - A floor drain was observed in a building used as a plumbing shop and materials storage area. Floor drains were part of a sump pump system designed to prevent flooding of the yard or shop. No additional information available. AOC 134-1: UST Excavation Area - A 2,000 gallon waste oil UST was removed from the site in 1992. Contaminated soil was stockpiled on-site during the UST removal.		
ARRC Comments Regarding RFA Description	AOC 134-1 see site LP-065		
Documented Releases	Unknown volume of gasoline likely released from rusted UST; removed from site in 1992.		
Summary of Analytical Data Results		**Soil ppm**	**Groundwater ppb**
	VOC	Not Available	1.9-150
	SVOC	Not Available	15-15
	DRO	Not Available	100-1970
	GRO	Not Available	54-140,000
	BTEX	Not Available	0.3-77,400
	Chlorinated Solvents	Not Available	0.5-150
	Metals	Not Available	10-1870
Investigation and/or Cleanup Actions Conducted	1. 2,000-gallon gasoline UST removal and Site Assessment (1992). Note that 2,000-gallon waste oil UST reference is for the other C.R. Lewis lease, LP-085. 2. 41 cyds of contaminated soil excavated and stockpiled on site for subsequent disposal (details regarding stockpile management not known). 3. Groundwater sampling (1993, 1995, 1997, 1998) involving three groundwater monitoring wells 4. Phase I Environmental Site Assessment (1998).		
Agency Lead and Closure Status	ADEC lead on UST removal. ADEC database for UST indicates closure status as "Not Listed."		

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-134
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Sparling Steel Company Operations: Not Specified Start Date: Before 1954 Stop Date: 1954 (lease not found) Territorial Mechanical Company Operations: Warehouse and storage site for construction plumbing and heating company Start Date: 2/1/1954 Stop Date: 10/30/1958 C.R. Lewis / C.R. Lewis Company (later held by bankruptcy trustee, Larry Compton) Operations: Warehouse for plumbing contractor Start Date: 11/1/1958 Stop Date: 4/3/2000 HW Alaska, LLC Operations: Office, storage Start Date: 4/3/2000 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-137**		
ARRC Contract No.	**7640 (Assigned) / 8304**		
EPA Site Name	Laidlaw Transit		
Address	1048 Whitney Road		
Site Overview (narrative)	Site undeveloped prior to 1958. Freighting service operated from late 1960s to 1990 (Mammoth Trucking). Laidlaw Transit stores and performs maintenance on school bus fleet. Five individual USTs removed from site, and about 140 cyds of impacted soil was excavated in 1990 by Mammoth. Site is within area investigated in CH_2M Hill's 1999 Whitney Road Floating Product Investigation.		
RFA SWMUs or AOCs as Identified by EPA and Description	SWMU 137-1: Floor Drains and Drainage Sump - A sump is located beneath the floor of the on-site building. The sump received discharge from the floor drains. Water sample collected from sump in 1994 was analyzed for HVOCs and BTEX, which were not detected. SWMU 137-2: Used Oil and Antifreeze Accumulation Area and Used Oil Burner - 55-gallon drums stored within the shop collect used oil and antifreeze. Areas in good condition and major leaks or spills were not observed. AOC 137-1: Area of UST Excavations - Five USTs were formerly located at this site and were removed in 1990. As a result, contamination is present in the soil and groundwater.		
ARRC Comments Regarding RFA Description	AOC 137-1. This site is part of the Whitney Road fuel area described in LP-034.		
Documented Releases	UST Assessment report concluded that "Contamination remains in the ground especially under the foundation of the shop and in groundwater." Free-phase petroleum hydrocarbon observed entering excavations during tank removal (1990).		
Summary of Analytical Data Results		**Soil ppm**	**Groundwater ppb**
	VOC	0.033-7.3	0.6-1700
	SVOC	0.052-10	3-460
	DRO	14-4070	2.3-440,000
	GRO	23-410	70-25,000
	BTEX	0.01-24	0.6-3900
	Chlorinated Solvents	0.02-6.5	0.9-44
	Metals	Not Analyzed	0.4-92,200
Investigation and/or Cleanup Actions Conducted	1. UST Assessment Report for Mammoth Trucking for removal of the following tanks: 1 1,000-gallon gasoline,1 500-gallon waste oil, 1 300-gallon waste oil, 1 5,000-gallon diesel, and 1 12,000-gallon diesel (1990). 2. Thermal treatment of 674 cyds impacted soil, 1992. 3. Phase I/II Site Assessment Report, 1994 (for Laidlaw, conducted prior to Laidlaw occupation of site). 4. Groundwater sampling event, 1999 (for ARRC).		
Agency Lead and Closure Status	ADEC lead on UST removal and associated soil remediation efforts. Closure status listed within ADEC UST database is "Tank removed from ground" for all five tanks.		

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-137
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** A.J. Hooper Company Operations: Warehouse and storage site for general contractor Start Date: 1/1/1952 Stop Date: 12/31/1952 Baker Newman Co. Operations: Unknown (file not found) Start Dates: 1/1/1953 Stop Date: Unknown Northway Equipment Co. Operations: Not Specified Start Date: 10/1/1953 Stop Date: 5/9/1956 Weaver Brothers, Inc. (later Weaver Brothers Profit Sharing Trust) Operations: Warehouse, office and storage site, and equipment maintenance shop for trucking company Start Date: 8/1/1956 Stop Date: 10/31/1979 Kandl Company, Inc. (affiliated with Mammoth of Alaska) Operations: Warehouse, office and storage site, and equipment maintenance shop for trucking company Start Date: 11/1/1979 Stop Date: 6/29/1984 Mammoth of Alaska, Inc. Operations: Warehouse, office and storage site, and equipment maintenance shop for trucking company Start Date: 6/7/1984 Stop Date: 3/24/1994 Laidlaw Transit Operations: School bus maintenance, bus parking, and office Start Date: 6/1/1994 Stop Date: 10/31/2001 Alaska West Express Operations: Truck terminal operation Start Date: 3/6/2002 Stop Date: To Present

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	**LP-991**		
ARRC Contract No.	Not Applicable		
Site Name	Arctic Cooperage		
Address	932 Whitney Rd.		
Site Overview (narrative)	Site used as for waste oil re-refining operations, waste oil management, and drum reconditioning. Located centrally within Whitney Road Floating Product study area, and adjacent to and immediately north of the Ship Creek riparian area. Site also located downgradient of railyard. Although RFA states that nature and extent of free-phase and dissolved-phase plumes have not been fully characterized, several investigations have been completed to define nature of impacts.		
RFA SWMUs or AOCs as Identified by EPA and Description	None discussed. This site has not been leased out by ARRC since 1988 and was therefore not included in the RFA list of currently occupied sites. From 1958 until 1964, an oil re-refinery was located at this site. Free phase and dissolved phase impacts were detected in groundwater, and site soils are impacted by petroleum constituents. Possible former SWMUs would include an oil/sludge separation tank, a diatomaceous earth/oil mix tank, a distillation tower, underground storage tank, and a filter press.		
ARRC Comments Regarding RFA Description	ADD general comments		
Documented Releases	Employee interview conducted as part of Phase I Environmental Assessment noted that waste disposal practice during re-refining activities included dumping unspecified materials in the Ship Creek floodplain.		
Summary of Analytical Data Results		**Soil ppm**	**Groundwater ppb**
	VOC	0.007-763	0.48-5400
	SVOC	0.006-340	0.64-7900
	DRO	10-35,000	100-130,000,000
	GRO	7-8400	54-2,400,000
	BTEX	0.006-1823	0.48-200,000
	Chlorinated Solvents	0.006-6	0.09-27
	Metals	0.4-124,000	2-170,000
	PCB	Not Detected	Not Analyzed
	Dioxin	0.00000034-0.0052	Not Analyzed
Investigation and/or Cleanup Actions Conducted	1. Phase I Environmental Assessment (1993). 2. Process UST Removal and Investigation (1995). 3. Gasoline UST Removal and Investigation (1996). 4. Phase II Site Assessment (1996). 5. Investigation and Monitoring (1997). 6. Floating Product Investigation (1999). 7. Field Sampling Report (2000). 8. Groundwater Assessment (2003).		
Agency Lead and Closure Status	Feb 11, 1997 letter from EPA to ARRC stated that "the facility does not score high enough to be proposed for inclusion on the NPL" and recommended NFA for the site. ADEC contaminated sites database lists site as "Active," and lists treatment of 48.42 tons of soil in 2003 as last entry.		

Lease Property Site Summary

RETEC Site Designation (based on EPA Site No.)	LP-991
Lease Property History & Site Use	**Tenants, Operators or Other PRPs:** Atro, Inc. Operations: Oil re-refining/drum washing and refilling Start Date 4/1/1958 Stop Date: 9/30/1963 Orval A. & Thelma M. Ross (d/b/a Arctic Refiners, later d/b/a Arctic Cooperage) Operations: Oil re-refining/drum washing and refilling Start Date: 10/1/1963 Stop Date: 3/31/1977 B.H. (Bernie) Saupe & M.L. Coulter (d/b/a Arctic Cooperage) Operations: Manufacturing oil and oil drum reconditioning Start Date: 4/1/1977 Stop Date: 5/1/1987

Additional Supporting Information

LP-002
Consolidated Freightways

1187019
LP-002-011

WALTER J. HICKEL, GOVERNOR

yellow
1.9.1

024

DEPT. OF ENVIRONMENTAL CONSERVATION

ANCHORAGE DISTRICT OFFICE
800 E. DIMOND BOULEVARD, SUITE 3-470
ANCHORAGE, ALASKA 99515 (907) 349-7755

CERTIFIED MAIL
RETURN RECEIPT
REQUESTED
February 24, 1993

Ben Encisco
Consolidated Freightways
801 1st Ave.
Anchorage, Alaska 99501

SUBJECT: Closure/No Further Action
Consolidated Freightways
Leaking Underground Storage Tank
801 1st Avenue, Anchorage
SPILL #: 89-2-1-0-116-04; FILE #: L55.81

Dear Mr. Encisco:

The Department has received and reviewed the BLYMER Engineers, Inc. report of January 8, 1993 on the above site. Based on this document and the previous site report(s), no further action is requested by the Department.

However, in the future, if contamination exceeding regulatory soil and groundwater cleanup standards is identified on the site, additional work may be necessary.

Please contact me if you have any questions at (907) 349-7755.

Sincerely,

Scott Bailey

Scott Bailey
Environmental Specialist

SB/cf
cc: John Halverson, ADEC/SCRO LUST Program Coordinator
Robert Weimer, ADEC/ADO LUST Program Coordinator
Linda Nuechterlein, ADEC/CO-Anchorage Data Base
Mike Lewis, BLYMER Engineers Inc.

USEPA SF
1187019

LP-002-006

Alaska Underground Storage Tank

Leaking UST Site Status and Correspondence Report

New UST/LUST Search

Contaminated Sites Database

Report for Event ID: 82 - Reckey: 1989210011604

Site Name:	Consolidated Freightways	**Election District:**	HD 12	**Staff:** Not Assigned
Location:	801 W. 1st Ave.;	**File Number:**	L55.81	**Facility ID List**
City:	Anchorage, AK 99501	**Priority:**	HIGH	305

Legal Desc: NW1/4, NW1/4, Sec 18, T13N, R3W, SM, Anchorage (A-8,NW) Quadrangle

Problem: Last staff assigned was Bailey. No BTEX detected in groundwater sampling reported in 10/89 site assessment. Soil sample from excavation soils left in place had up to 12,000 ppm diesel and 6200 ppm as gasoline. No further ADEC action is recorded in the project file as of 1/3/91.

Comments: Contaminated soils/groundwater encountered during 1989 removal of USTs and subsequent site assessment. Contaminants include gasoline and diesel. Approximately 700 cubic yards contaminated soil and 1000 gallon contaminated water removed. Extent of contamination unknown. Date & quantity of spill unknown. Human helth threat unknown.

Glossary/Acronyms

Action Date	Action	Action Comment
3/1/1989	Release Investigation	SI; Phase I Contamination Investigation performed by Blymyer Engineers, Inc. Included tank removal, groundwater supply well survey, and installation and sampling of monitoring wells. See "E" action for tank removal. Soil samples from monitoring well locations showed up to 720 ppm TPH as diesel, 990 ppm as motor oil, 690 ppm as gasoline, and up to 0.562 ppm sum BTEX. Groundwater samples showed up to 0.71 ppm TPH as diesel, 0.35 ppm as gasoline and the presence of hydrocarbons such as kerosene. No BTEX detected in groundwater.
4/21/1989	Corrective Action Plan	RAPR; Contamination Assessment Plan prepared by Blymyer Engineers, Inc. Includes removal of 6,000 gal diesel and 1,000 gal gasoline tanks and contaminated soil, and installation of monitoring wells. Proposed use of Anchorage Sand & Gravel for contaminated soil disposal. Plan reviewed by R. Klein.
4/26/1989	Confirmed Release	ADD; Diesel, used oil, gasoline contaminants.
4/27/1989	LUST Cleanup Initiated: Petroleum	LCAU; :LCAU Date changed DB conversion
6/12/1989	Other	REM; Removal of USTS and contaminated soil. Monitoring performed by Blymyer Engineers. Approx 1000 tons of soil excavated and 1800 gal water pumped from excavation. Water disposed of by Alaska Pollution

		Control. Soil samples from finished excavation showed up to 12,000 ppm TPH quantified as diesel (Mod 8015), 6200 ppm TPH as gasoline, 20 ppm TPH as motor oil, and 8 ppm sum BTEX. One sample aslo indicated possible presence of kerosene.
6/26/1989	Corrective Action Plan	RAPR; Work plan for installation of monitoring wells and soil and groundwater sampling.
6/15/1993	Site Cleanup Completed	CLOS; Site closed.

End of Report for 5/19/2004

LP-014
UCSC/Motor Doctor

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, WA 98101

LP-014-004

OCT 30 2003

Reply to
Attn Of: WCM-126

ENV-A095-03
Jos- file

Mr. Michael Burke, Branch Manager
Urethane Contractors Supply and Consulting
1425 Spar Avenue
Anchorage, AK 99501

Re: **RCRA Compliance Evaluation Inspection**
Urethane Contractors Supply and Consulting

Dear Mr. Burke:

On August 26, 2003, the United States Environmental Protection Agency (EPA) conducted a Compliance Evaluation Inspection (CEI) at the above referenced facility. The primary purpose of the inspection was to determine the facility's compliance with the hazardous waste regulations found in 40 C.F.R. Parts 260 through 270 and 279. Based on the portions of the facility inspected and the information obtained at the time of the inspection, no violations of the Resource Conservation and Recovery Act (RCRA) were found.

If you have any questions regarding this matter, please contact Xiang-Yu Ge of my staff at (206) 553-2859.

Sincerely,

Jamie Sikorski, Manager
RCRA Compliance Unit

cc: Karen Morrisey, Alaska Railroad Corporation
Ernest Piper, Alaska Railroad Corporation

Printed on Recycled Paper

LP-17
Polar Equipment

LP-020
Wholesale Distributors of Alaska

LP-049
Wrightway Auto Carriers

LP-056
Steel Fabricators

Anchorage
Boston
Edmonds
Jersey City
Long Beach
Portland
Seattle

June 26, 2003

Susan Schrader
Alaska Railroad Corporation
P.O. Box 107500
Anchorage, Alaska 99510-7500

Re: ARRC Leaseholder Water Level Measurements
Anchorage, Alaska
8814

Dear Ms. Schrader:

On Monday June 16, 2003, Alaska Railroad Corporation (ARRC) requested Hart Crowser to perform water well measurements at four Alaska Railroad Corporation leaseholder sites. The leased sites are located in the Ship Creek drainage basin.

Two principal groundwater systems are present in the lower Ship Creek basin, the upper unconfined aquifer and the lower confined aquifer. The impermeable clayey silts and clays, locally known as the Bootlegger Cove Clay, separate these two aquifers. The upper aquifer varies with seasonal influences, but in general is located 15 to 100 feet below the ground surface (bgs). In the Lower Ship Creek area (west of Post Road) the groundwater in the upper aquifer is generally found between 5 and 15 feet below grade. The lower aquifer is generally present in the Ship Creek basin from depths between 100 and 400 feet bgs.

LEASEHOLDER GROUNDWATER LEVEL MEASUREMENTS

Hart Crowser contacted the four ARRC tenants listed below prior to measuring the groundwater levels and total well depths at each site. Hart Crowser measured the water levels and well depths between June 18 and 25, 2003.

Site 6.17 - 2116 Post Road

Carl Glenn operates Post Road Properties. Post Road Properties operates a two-story building and the well is located within the structures. The well is constructed of 2.5-inch diameter steel pipe. The depth to water was 9.9 feet bgs and the total depth of the well was

1,2

2550 Denali Street, Suite 705
Anchorage, Alaska 99503-2737
Fax 907.276.2104
Tel 907.276.7475

11 feet bgs. A 1-inch-diameter polyvinyl chloride (PVC) pipe is placed inside the well. A single-stage jet pump is located on the second floor of the building and is used to draw the water from the well. The water is reportedly used solely for the operation of the toilet. Groundwater in this well is from the upper unconfined aquifer.

Site 6.20 - 2548 Post Road

Wholesale Distributors of Alaska, Inc., sells spas and saunas from this location. Robert Carlson is the leaseholder and contact. Wholesale Distributors of Alaska uses water from the well to fill demonstration spas and to service the interior plumbing. The well is constructed of 8-inch-diameter steel pipe housed in a shaft supported by timbers and is located under the paved parking lot. The water depth was 29.5 feet bgs and the total depth of the well was 77 feet bgs. Personnel at the site drink bottled water. Mr. Carlson had the water tested several years ago after a contaminant spill was reported at a nearby site. The samples reportedly tested free of contamination, but Mr. Carlson did not have the analytical results available for review.

The terrain is generally level between Wholesale Distributors of Alaska, Inc and Ship Creek, which is less than a quarter mile south of the site. Water from Ship Creek would likely recharge the shallow aquifer in along length.

Since the static groundwater water level in the well at the site is 29.5 feet below grade, and the well is screened approximately 47 feet below the static water level, it indicates that the well is screened in the lower aquifer.

Site 6.49 - 101 West Whitney Road

Bill Wright operates Wrightway Auto Carriers. Wrightway Auto Carriers has the water well on the north central portion of the property. The well is constructed of 8-inch-diameter steel. The top of the groundwater was measured at 4.5 feet bgs and the total depth of the well is greater than 150 feet bgs. John G. Grega of Wrightway Auto Carriers stated that the U.S. Environment Protection Agency (EPA) has monitored the water quality in this well and the analytical results reportedly met the State of Alaska's drinking water standards. Wrightway Auto Carriers did not have the analytical results available for review. The depth of the well would indicate that it is set in the lower, confined aquifer.

Site 6.56 - 2132 Railroad Avenue

Richard Faulkner operates Steel Fab and is the contact for this lease. Steel Fab operates the complex and water is provided to the buildings via a well located under the office building. The well is constructed of 10-inch-diameter steel. An attempt was made to measure the well, but when the bolts were loosened for access, water began flowing out of the well. Consequently, no measurements were taken. Mr. Faulkner reports that the well is 200 feet deep. The water is used for drinking and is sampled in house approximately every two years. Mr. Faulker stated that the EPA has also collected water quality samples from the well at multiple times. The analytical results reportedly met the federal drinking water standards. Mr. Faulkner did not have the analytical results available for review.

This Well displayed the artesian effect; the groundwater elevations in the well being higher than the groundwater elevations of the overlying upper aquifer and ground surface.

The reported total depth of the well and the artesian characteristics of the groundwater water flowing out of the loosened wellhead indicate that the well is set in the lower aquifer.

If we may provide additional information or clarification, please call us at 276-7475.

Sincerely,

HART CROWSER, INC.

Russell Grandel

RUSSELL G. GRANDEL
Project Geologist

LP-020
Wholesale Distributors of Alaska

ANALYTICA
Environmental Laboratories

Analytica Alaska Incorporated
website:
www.analyticagroup.com

9/2/2003

Hart Crowser, Inc
2550 Denali St
Suite 705
Anchorage, AK 99503-2737
Attn: Russell Grandell

Work Order #: A0308089
Date: 9/2/2003
Work ID: ARRC
Date Received: 8/22/2003

Sample Identification

Lab Sample Number	Client Description	Lab Sample Number	Client Description

Enclosed are the analytical results for the submitted sample(s). Please review the CASE NARRATIVE for a discussion of any data and/or quality control issues. Listings of data qualifiers, analytical codes, key dates, and QC relationships are provided at the end of the report.

Sincerely,

Jason Gray
Project Manager

"The Science of Analysis, The Art of Service"

Case Narrative

Analytica Alaska Inc.
Work Order: A0308089

Samples were prepared and analyzed according to EPA or equivalent methods outlined in the following references:

ADEC Method AK101 For the Determination of Gasoline Range Organics.
ADEC Method AK102 For the Determination of Diesel Range Organics.
Test Methods for Evaluating Solid Waste, USEPA SW-846, Third Ed., Rev. 4, Dec 1996

SAMPLE RECEIPT:
Two (2) samples were received at Analytica-Anchorage (ADEC Laboratory Approval Number: UST-014) on 8/22/2003 at a temperature of 5.7°C. Samples were received in good condition and in order per chain of custody.

Samples were transferred for analysis at Analytica Environmental Laboratories (AEL); 12189 Pennsylvania St. Thornton, CO 80241 where they were received at a temperature of 1.4°C in good condition and in order per chain of custody.

REVIEW FOR COMPLIANCE WITH ANALYTICA QA PLAN
A summary of our review is shown below, organized by test:

Test Method ADEC AK101 - (GRO) - Aqueous

HOLDING TIMES:
Holding times were met for this Test

SAMPLE PREPARATION ISSUES AND OBSERVATIONS
There were no unusual observations.

INSTRUMENT CALIBRATIONS:
Initial calibration and CCV samples met method criteria

SURROGATE RECOVERIES:
There were no surrogate outliers

METHOD BLANK OUTLIERS:
There were no MB outliers; No target analytes detected in the MB above the PQL

LCS/LCSD OUTLIERS:
There are no LCS/LCSD outliers

MS/MSD OUTLIERS:
No samples of this delivery were selected or designated for batch MS/MSD

Test Method: ADEC AK102/103 - (DRO & RRO) - Aqueous

HOLDING TIMES:
Holding times were met for this Test

SAMPLE PREPARATION ISSUES AND OBSERVATIONS:
There were no unusual observations.

INSTRUMENT CALIBRATIONS:
Initial calibration and CCV samples met method criteria

Case Narrative

Analytica Alaska Inc.
Work Order: A0308089
(continued)

SURROGATE RECOVERIES:
There were no surrogate outliers

METHOD BLANK OUTLIERS:
There were no MB outliers; No target analytes detected in the MB above the PQL.

LCS/LCSD OUTLIERS:
There are no LCS/LCSD outliers

MS/MSD OUTLIERS:
No samples of this delivery were selected or designated for batch MS/MSD

Test Method: SW6010B - ICP - Total - Aqueous

HOLDING TIMES:
Holding times were met for this Test

SAMPLE PREPARATION ISSUES AND OBSERVATIONS:
There were no unusual observations.

INSTRUMENT PERFORMANCE CHECKS:
Instrument checks were within method criteria

INITIAL CALIBRATIONS:
Initial calibrations were within method criteria.

CONTINUING CALIBRATIONS:
Continuing calibrations were within method criteria

METHOD BLANK OUTLIERS:
There are no method blank outliers

LCS OUTLIERS:
For metals analyses, we are using the LCS control windows internally generated by the laboratory. These statistically-generated windows are rather narrow, compared to typical acceptance windows of 80-120. Because of this, element recoveries may fall outside these windows periodically without significant negative effects on accuracy.

In this instance, the LCS shows a recovery that is low compared to the statistical windows (but not below 80%). Such results would be expected to be of normal accuracy. Any small bias is of no consequence since the associated samples are ND for the metals recovered high.

Type	BatchNumber	Analyte	Recovery	LCL	UCL	Status
LCS	T030830002	Potassium	82.0	90	115	Complete

MS/MSD and DUP OUTLIERS:
There are no MS/MSD or DUP outliers

Test Method: SW7470A - Mercury in Liquid Waste by CVAA - Total Hg - Aqueous

HOLDING TIMES:
Holding times were met for this Test

Case Narrative

Analytica Alaska Inc.
Work Order: A0308089
(continued)

SAMPLE PREPARATION ISSUES AND OBSERVATIONS:
There were no unusual observations.

INSTRUMENT PERFORMANCE CHECKS:
Instrument checks were within method criteria

INITIAL CALIBRATIONS:
Initial calibrations were within method criteria

CONTINUING CALIBRATIONS:
Continuing calibrations were within method criteria

METHOD BLANK OUTLIERS:
There are no method blank outliers

LCS OUTLIERS:
There are no LCS outliers

MS/MSD and DUP OUTLIERS:
There are no MS/MSD or DUP outliers

Test Method: SW8260B - VOCs by GC/MS - Aqueous

HOLDING TIMES:
Holding times were met for this Test

SAMPLE PREPARATION ISSUES AND OBSERVATIONS
There were no unusual observations.

INSTRUMENT PERFORMANCE CHECKS:
Instrument checks were within method criteria

INITIAL CALIBRATIONS:
Initial calibrations were within method criteria.

CONTINUING CALIBRATIONS:
Continuing calibrations were within method criteria.

INTERNAL STANDARD AREAS:
There were no Internal Standard outliers

SURROGATE RECOVERIES:
There were no surrogate outliers.

METHOD BLANK OUTLIERS:
Mmethylene chloride was detected below the PQL in the method blank indicated below. Any detections of this target in associated samples are flagged with a B to indicate that they are due to laboratory background, unless the sample result is 10X or more the method blank level.

Case Narrative

Analytica Alaska Inc.
Work Order: A0308089
(continued)

MB Batch	Analyte	Result	PQL	MDL
T030829003	Methylene Chloride	0.720	5	0.465
T030902007	Methylene Chloride	0.930	5	0.465

LCS OUTLIERS:
The LCS and LCSD shown below have a couple of targets outside of control windows These are high recoveries and are not detected in associated samples.

Type	BatchNumber	Analyte	Recovery	LCL	UCL	Status
LCS	T030902007	Trichlorofluoromethane	122.	50	118	Complete
LCS	T030902007	trans-1,2-Dichloroethene	123.	76	123	Complete
LCSD	T030902007	Trichlorofluoromethane	123.	50	118	Complete

MS/MSD and DUP OUTLIERS:
Several targets are out in the batch MS/MSD associated with these analyses, but the sample spiked is not associated with this project.

Detailed Analytical Report

Analytica Alaska Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Report Section: Client Sample Report

Client Sample Name: **2548 Post Rd- WW**

Matrix: Water

Collection Date: 8/22/2003 1:00:00PM

The following test was conducted by: Analytica - Anchorage

Lab Sample Number: A0308089-01B
Prep Date: 8/26/2003
Analytical Method ID: ADEC AK102/103 - (DRO & RRO)
Prep Method ID: 3510
Prep Batch Number: A030826004
Report Basis: As Received
Sample prep wt./vol: 980.00 ml

Analysis Date: 8/29/2003 9:43:00PM
Instrument: Woof
File Name: W3082894.D
Dilution Factor:
Analyst Initials: HW
Prep Extract Vol: 1.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	Rerun #:
Diesel Range Organics	n/a	ND		mg/L	0.10	0.020	1
Residual Range Organics	n/a	ND		mg/L	0.20	0.032	

Surrogate	CASNo	Result	Flags	Units	PQL	MDL	Spike	% Recov	LCL	UCL	Rerun #:
o-Terphenyl	84-15-1	**0.039**		mg/L	0.0051	0.00065	0.051	**76.5**	50	150	
Squalane	111-01-3	**0.055**		mg/L	0.0051	0.00098	0.051	**107**	50	150	

The following test was conducted by: Analytica - Anchorage

Lab Sample Number: A0308089-01A
Prep Date: 8/27/2003
Analytical Method ID: ADEC AK101 - (GRO)
Prep Method ID: 5030
Prep Batch Number: A030827002
Report Basis: As Received
Sample prep wt./vol: 5.00 ml

Analysis Date: 8/27/2003 1:51:00PM
Instrument: Boris
File Name: B3082712.D
Dilution Factor:
Analyst Initials: SG
Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	Rerun #:
Gasoline Range Organics	n/a	ND		ug/L	50	3.0	1

Surrogate	CASNo	Result	Flags	Units	PQL	MDL	Spike	% Recov	LCL	UCL	Rerun #:
Bromofluorobenzene	1072-85-1	**85**		ug/L	1.0	0.10	100	**85.3**	50	150	1
Difluorobenzene	540-36-3	**45**		ug/L	1.0	0.10	50	**89.3**	50	150	

The following test was conducted by: Analytica - Thornton

Lab Sample Number: A0308089-01D
Prep Date: 8/29/2003
Analytical Method ID: SW8260B - VOCs by GC/MS
Prep Method ID: P&TWater
Prep Batch Number: T030902007
Report Basis: As Received
Sample prep wt./vol: 5.00 ml

Analysis Date: 8/29/2003 3:34:00PM
Instrument: MS3VOA
File Name: 03082912.D
Dilution Factor:
Analyst Initials: mu
Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	Rerun #:
1,1,1,2-Tetrachloroethane	630-20-6	ND		ug/L	2.0	0.47	1
1,1,1-Trichloroethane	71-55-6	ND		ug/L	2.0	0.61	
1,1,2,2-Tetrachloroethane	79-34-5	ND		ug/L	2.0	0.48	
1,1,2-Trichloroethane	79-00-5	ND		ug/L	2.0	0.41	
1,1-Dichloroethane	75-34-3	ND		ug/L	2.0	0.44	

Detailed Analytical Report

Analytica Alaska Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Report Section: Client Sample Report

Client Sample Name: **2548 Post Rd- WW**

Matrix: Water

Collection Date: 8/22/2003 1:00:00PM

Lab Sample Number: A0308089-01D

Prep Date: 8/29/2003

Analytical Method ID: SW8260B - VOCs by GC/MS

Prep Method ID: P&TWater

Prep Batch Number: T030902007

Report Basis: As Received

Sample prep wt./vol: 5.00 ml

Analysis Date: 8/29/2003 3:34:00PM

Instrument: MS3VOA

File Name: 03082912.D

Dilution Factor:

Analyst Initials:

Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	Rerun #:
1,1-Dichloroethene	75-35-4	ND		ug/L	2.0	0.53	
1,1-Dichloropropene	563-58-6	ND		ug/L	2.0	0.43	
1,2,3-Trichlorobenzene	87-61-6	ND		ug/L	2.0	0.41	
1,2,3-Trichloropropane	96-18-4	ND		ug/L	2.0	0.61	
1,2,4-Trichlorobenzene	120-82-1	ND		ug/L	2.0	0.44	
1,2,4-Trimethylbenzene	95-63-6	ND		ug/L	2.0	0.48	
1,2-Dibromo-3-Chloropropane	96-12-8	ND		ug/L	10	0.32	
1,2-Dibromoethane	106-93-4	ND		ug/L	2.0	0.34	
1,2-Dichlorobenzene	95-50-1	ND		ug/L	2.0	0.51	
1,2-Dichloroethane	107-06-2	ND		ug/L	2.0	0.37	
1,2-Dichloropropane	78-87-5	ND		ug/L	2.0	0.51	
1,3,5-Trimethylbenzene	108-67-8	ND		ug/L	2.0	0.48	
1,3-Dichlorobenzene	541-73-1	ND		ug/L	2.0	0.55	
1,3-Dichloropropane	142-28-9	ND		ug/L	2.0	0.47	
1,4-Dichlorobenzene	106-46-7	ND		ug/L	2.0	0.65	
2,2-Dichloropropane	594-20-7	ND		ug/L	2.0	0.44	
2-Butanone	78-93-3	ND		ug/L	50	1.5	
2-Chloroethyl Vinyl Ether	110-75-8	ND		ug/L	10	0.24	
2-Chlorotoluene	95-49-8	ND		ug/L	2.0	0.57	
2-Hexanone	591-78-6	ND		ug/L	20	0.46	
4-Chlorotoluene	106-43-4	ND		ug/L	2.0	0.63	
4-Isopropyltoluene	99-87-6	ND		ug/L	2.0	0.55	
4-Methyl-2-Pentanone	108-10-1	ND		ug/L	20	0.36	
Acetone	67-64-1	ND		ug/L	50	3.2	
Acrylonitrile	107-13-1	ND		ug/L	10	0.41	
Benzene	71-43-2	ND		ug/L	2.0	0.32	
Bromobenzene	108-86-1	ND		ug/L	2.0	0.49	
Bromochloromethane	74-97-5	ND		ug/L	2.0	0.56	
Bromodichloromethane	75-27-4	ND		ug/L	2.0	0.42	
Bromoform	75-25-2	ND		ug/L	2.0	0.50	
Bromomethane	74-83-9	ND		ug/L	5.0	0.84	
Carbon Disulfide	75-15-0	ND		ug/L	2.0	0.46	
Carbon Tetrachloride	56-23-5	ND		ug/L	2.0	0.43	
Chlorobenzene	108-90-7	ND		ug/L	2.0	0.50	

Detailed Analytical Report

Analytica Alaska Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Report Section: Client Sample Report

Client Sample Name: **2548 Post Rd- WW**

Matrix: Water

Collection Date: 8/22/2003 1:00:00PM

Lab Sample Number: A0308089-01D

Prep Date: 8/29/2003

Analytical Method ID: SW8260B - VOCs by GC/MS

Prep Method ID: P&TWater

Prep Batch Number: T030902007

Report Basis: As Received

Sample prep wt./vol: 5.00 ml

Analysis Date: 8/29/2003 3:34:00PM

Instrument: MS3VOA

File Name: 03082912.D

Dilution Factor:

Analyst Initials:

Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	Rerun #:
Chloroethane	75-00-3	ND		ug/L	5.0	0.63	1
Chloroform	67-66-3	ND		ug/L	2.0	0.46	
Chloromethane	74-87-3	ND		ug/L	5.0	1.2	
Cis-1,2-Dichloroethene	156-59-2	ND		ug/L	2.0	0.47	
Cis-1,3-Dichloropropene	10061-015	ND		ug/L	2.0	0.39	
Dibromochloromethane	124-48-1	ND		ug/L	2.0	0.37	
Dibromomethane	74-95-3	ND		ug/L	2.0	0.41	
Dichlorodifluoromethane	75-71-8	ND		ug/L	5.0	1.5	
Ethylbenzene	100-41-4	ND		ug/L	2.0	0.47	
Hexachlorobutadiene	87-68-3	ND		ug/L	2.0	0.50	
Iodomethane	74-88-4	ND		ug/L	5.0	1.1	
Isopropylbenzene	98-82-8	ND		ug/L	2.0	0.48	
m&p Xylenes	108-38-3/106-	ND		ug/L	2.0	0.28	
Methylene Chloride	75-09-2	1.3	JB	ug/L	5.0	0.47	
Naphthalene	91-20-3	ND		ug/L	2.0	0.31	
n-Butylbenzene	104-51-8	ND		ug/L	2.0	0.46	
n-Propylbenzene	103-65-1	ND		ug/L	2.0	0.50	
O-Xylene	95-47-6	ND		ug/L	2.0	0.46	
sec-Butylbenzene	135-98-8	ND		ug/L	2.0	0.52	
Styrene	100-42-5	ND		ug/L	2.0	0.58	
tert-Butyl Methyl Ether	1634-04-4	ND		ug/L	2.0	0.36	
tert-Butylbenzene	98-06-6	ND		ug/L	2.0	0.43	
Tetrachloroethene	127-18-4	ND		ug/L	2.0	0.45	
Toluene	108-88-3	ND		ug/L	2.0	0.55	
trans-1,2-Dichloroethene	156-60-5	ND		ug/L	2.0	0.61	
trans-1,3-Dichloropropene	10061-026	ND		ug/L	2.0	0.39	
trans-1,4-Dichloro-2 Buten	110-57-	ND		ug/L	10	0.86	
Trichloroethene	79-01-6	ND		ug/L	2.0	0.55	
Trichlorofluoromethane	75-69-4	ND		ug/L	2.0	0.51	
Trichlorotrifluoroethane	76-13-1	ND		ug/L	2.0	0.60	
Vinyl Acetate	108-05-4	ND		ug/L	5.0	0.66	
Vinyl Chloride	75-01-4	ND		ug/L	2.0	0.53	

Surrogate	CASNo	Result	Flags	Units	PQL	MDL	Spike	% Recov	LCL	UCL	Rerun #:
1,2-Dichloroethane-d4	17060-07-0	48		ug/L	2.0	0.50	50	95.4	75	121	1

Detailed Analytical Report

Analytica Alaska Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Report Section: Client Sample Report

Client Sample Name: **2548 Post Rd- WW**

Matrix: Water

Collection Date: 8/22/2003 1:00:00PM

Lab Sample Number: A0308089-01D

Prep Date: 8/29/2003

Analytical Method ID: SW8260B - VOCs by GC/MS

Prep Method ID: P&TWater

Prep Batch Number: T030902007

Report Basis: As Received

Sample prep wt./vol: 5.00 ml

Analysis Date: 8/29/2003 3:34:00PM

Instrument: MS3VOA

File Name: 03082912.D

Dilution Factor:

Analyst Initials: mu

Prep Extract Vol: 5.00 ml

Dibromofluoromethane	1868-53-7	52	ug/L	2.0	0.20	50	**105**	76	
p-Bromofluorobenzene	460-00-4	42	ug/L	2.0	0.50	50	**84.8**	80	
Toluene D-8	108-88-3D	52	ug/L	2.0	0.22	50	**104**	82	119

The following test was conducted by: Analytica - Thornton

Lab Sample Number: A0308089-01C

Prep Date: 8/28/2003

Analytical Method ID: SW7470A - Mercury in Liquid Waste by CVAA - Total Hg

Prep Method ID: 7470A

Prep Batch Number: T030828004

Report Basis: As Received

Sample prep wt./vol: 20.00 ml

Analysis Date: 8/29/2003 12:50:12PM

Instrument: CVAA_1

File Name: B0308293.WK

Dilution Factor:

Analyst Initials: JC

Prep Extract Vol: 20.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	Rerun #:
Mercury	7439-97-6	ND		mg/L	0.00020	0.000060	

The following test was conducted by: Analytica - Thornton

Lab Sample Number: A0308089-01C

Prep Date: 8/30/2003

Analytical Method ID: SW6010B - ICP - Total

Prep Method ID: 3010A

Prep Batch Number: T030830002

Report Basis: As Received

Sample prep wt./vol: 50.00 ml

Analysis Date: 9/2/2003 12:33:00PM

Instrument: ICP_2

File Name: E09023A

Dilution Factor: 1

Analyst Initials: CCJ

Prep Extract Vol: 50.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	Rerun #:
Arsenic	7440-38-2	ND		mg/L	0.10	0.015	1
Barium	7440-39-3	**0.018**		mg/L	0.010	0.00016	
Cadmium	7440-43-9	ND		mg/L	0.0060	0.00051	
Chromium	7440-47-3	ND		mg/L	0.010	0.0018	
Lead	7439-92-1	ND		mg/L	0.050	0.011	
Selenium	7784-49-2	ND		mg/L	0.10	0.026	
Silver	7440-22-4	ND		mg/L	0.015	0.00066	

Detailed Analytical Report

Analytica Alaska Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Report Section: Client Sample Report

Client Sample Name: **Trip Blank**

Matrix: Water

Collection Date: 8/22/2003 1:00:00PM

The following test was conducted by: Analytica - Anchorage

Lab Sample Number: A0308089-02B

Prep Date: 8/27/2003

Analytical Method ID: ADEC AK101 - (GRO)

Prep Method ID: 5030

Prep Batch Number: A030827002

Report Basis: As Received

Sample prep wt./vol: 5.00 ml

Analysis Date: 8/27/2003 4:32:00PM

Instrument: Boris

File Name: B3082716.D

Dilution Factor: 1

Analyst Initials: SG

Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL						Rerun #:
Gasoline Range Organics	n/a	ND		ug/L	50	3.0						1
Surrogate	**CASNo**	**Result**	**Flags**	**Units**	**PQL**	**MDL**	**Spike**	**% Recov**	**LCL**	**UCL**	**Rerun #:**	
Bromofluorobenzene	1072-85-1	87		ug/L	1.0	0.10	100	86.8	50	150	1	
Difluorobenzene	540-36-3	45		ug/L	1.0	0.10	50	89.0	50	150		

The following test was conducted by: Analytica - Thornton

Lab Sample Number: A0308089-02A

Prep Date: 8/28/2003

Analytical Method ID: SW8260B - VOCs by GC/MS

Prep Method ID: P&TWater

Prep Batch Number: T030829003

Report Basis: As Received

Sample prep wt./vol: 5.00 ml

Analysis Date: 8/28/2003 5:14:00PM

Instrument: MS3VOA

File Name: 03082810.D

Dilution Factor: 1

Analyst Initials: mu

Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	Rerun #:
1,1,1,2-Tetrachloroethane	630-20-6	ND		ug/L	2.0	0.47	1
1,1,1-Trichloroethane	71-55-6	ND		ug/L	2.0	0.61	
1,1,2,2-Tetrachloroethane	79-34-5	ND		ug/L	2.0	0.48	
1,1,2-Trichloroethane	79-00-5	ND		ug/L	2.0	0.41	
1,1-Dichloroethane	75-34-3	ND		ug/L	2.0	0.44	
1,1-Dichloroethene	75-35-4	ND		ug/L	2.0	0.53	
1,1-Dichloropropene	563-58-6	ND		ug/L	2.0	0.43	
1,2,3-Trichlorobenzene	87-61-6	ND		ug/L	2.0	0.41	
1,2,3-Trichloropropane	96-18-4	ND		ug/L	2.0	0.61	
1,2,4-Trichlorobenzene	120-82-1	ND		ug/L	2.0	0.44	
1,2,4-Trimethylbenzene	95-63-6	ND		ug/L	2.0	0.48	
1,2-Dibromo-3-Chloropropane	96-12-8	ND		ug/L	10	0.32	
1,2-Dibromoethane	106-93-4	ND		ug/L	2.0	0.34	
1,2-Dichlorobenzene	95-50-1	ND		ug/L	2.0	0.51	
1,2-Dichloroethane	107-06-2	ND		ug/L	2.0	0.37	
1,2-Dichloropropane	78-87-5	ND		ug/L	2.0	0.51	
1,3,5-Trimethylbenzene	108-67-8	ND		ug/L	2.0	0.48	
1,3-Dichlorobenzene	541-73-1	ND		ug/L	2.0	0.55	
1,3-Dichloropropane	142-28-9	ND		ug/L	2.0	0.47	
1,4-Dichlorobenzene	106-46-7	ND		ug/L	2.0	0.65	

Detailed Analytical Report

Analytica Alaska Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Report Section: Client Sample Report

Client Sample Name: **Trip Blank**

Matrix: Water

Collection Date: 8/22/2003 1:00:00PM

Lab Sample Number: A0308089-02A

Prep Date: 8/28/2003

Analytical Method ID: SW8260B - VOCs by GC/MS

Prep Method ID: P&TWater

Prep Batch Number: T030829003

Report Basis: As Received

Sample prep wt./vol: 5.00 ml

Analysis Date: 8/28/2003 5:14:00PM

Instrument: MS3VOA

File Name: 03082810.D

Dilution Factor:

Analyst Initials:

Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	Rerun #:
2,2-Dichloropropane	594-20-7	ND		ug/L	2.0	0.44	
2-Butanone	78-93-3	ND		ug/L	50	1.5	
2-Chloroethyl Vinyl Ether	110-75-8	ND		ug/L	10	0.24	
2-Chlorotoluene	95-49-8	ND		ug/L	2.0	0.57	
2-Hexanone	591-78-6	ND		ug/L	20	0.46	
4-Chlorotoluene	106-43-4	ND		ug/L	2.0	0.63	
4-Isopropyltoluene	99-87-6	ND		ug/L	2.0	0.55	
4-Methyl-2-Pentanone	108-10-1	ND		ug/L	20	0.36	
Acetone	67-64-1	ND		ug/L	50	3.2	
Acrylonitrile	107-13-1	ND		ug/L	10	0.41	
Benzene	71-43-2	ND		ug/L	2.0	0.32	
Bromobenzene	108-86-1	ND		ug/L	2.0	0.49	
Bromochloromethane	74-97-5	ND		ug/L	2.0	0.56	
Bromodichloromethane	75-27-4	ND		ug/L	2.0	0.42	
Bromoform	75-25-2	ND		ug/L	2.0	0.50	
Bromomethane	74-83-9	ND		ug/L	5.0	0.84	
Carbon Disulfide	75-15-0	ND		ug/L	2.0	0.46	
Carbon Tetrachloride	56-23-5	ND		ug/L	2.0	0.43	
Chlorobenzene	108-90-7	ND		ug/L	2.0	0.50	
Chloroethane	75-00-3	ND		ug/L	5.0	0.63	
Chloroform	67-66-3	ND		ug/L	2.0	0.46	
Chloromethane	74-87-3	ND		ug/L	5.0	1.2	
Cis-1,2-Dichloroethene	156-59-2	ND		ug/L	2.0	0.47	
Cis-1,3-Dichloropropene	10061-015	ND		ug/L	2.0	0.39	
Dibromochloromethane	124-48-1	ND		ug/L	2.0	0.37	
Dibromomethane	74-95-3	ND		ug/L	2.0	0.41	
Dichlorodifluoromethane	75-71-8	ND		ug/L	5.0	1.5	
Ethylbenzene	100-41-4	ND		ug/L	2.0	0.47	
Hexachlorobutadiene	87-68-3	ND		ug/L	2.0	0.50	
Iodomethane	74-88-4	ND		ug/L	5.0	1.1	
Isopropylbenzene	98-82-8	ND		ug/L	2.0	0.48	
m&p Xylenes	108-38-3/106-	ND		ug/L	2.0	0.28	
Methylene Chloride	75-09-2	0.97	JB	ug/L	5.0	0.47	
Naphthalene	91-20-3	ND		ug/L	2.0	0.31	

Detailed Analytical Report

Analytica Alaska Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Report Section: Client Sample Report

Client Sample Name: **Trip Blank**

Matrix: Water

Collection Date: 8/22/2003 1:00:00PM

Lab Sample Number:	A0308089-02A	Analysis Date:	8/28/2003 5:14:00PM
Prep Date:	8/28/2003	Instrument:	MS3VOA
Analytical Method ID:	SW8260B - VOCs by GC/MS	File Name:	03082810.D
Prep Method ID:	P&TWater	Dilution Factor:	
Prep Batch Number:	T030829003		
Report Basis:	As Received	Analyst Initials:	mu
Sample prep wt./vol:	5.00 ml	Prep Extract Vol:	5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	Rerun #:
n-Butylbenzene	104-51-8	ND		ug/L	2.0	0.46	1
n-Propylbenzene	103-65-1	ND		ug/L	2.0	0.50	
O-Xylene	95-47-6	ND		ug/L	2.0	0.46	
sec-Butylbenzene	135-98-8	ND		ug/L	2.0	0.52	
Styrene	100-42-5	ND		ug/L	2.0	0.58	
tert-Butyl Methyl Ether	1634-04-4	ND		ug/L	2.0	0.36	
tert-Butylbenzene	98-06-6	ND		ug/L	2.0	0.43	
Tetrachloroethene	127-18-4	ND		ug/L	2.0	0.45	
Toluene	108-88-3	ND		ug/L	2.0	0.55	
trans-1,2-Dichloroethene	156-60-5	ND		ug/L	2.0	0.61	
trans-1,3-Dichloropropene	10061-026	ND		ug/L	2.0	0.39	
trans-1,4-Dichloro-2 Buten	110-57-	ND		ug/L	10	0.86	
Trichloroethene	79-01-6	ND		ug/L	2.0	0.55	
Trichlorofluoromethane	75-69-4	ND		ug/L	2.0	0.51	
Trichlorotrifluoroethane	76-13-1	ND		ug/L	2.0	0.60	
Vinyl Acetate	108-05-4	ND		ug/L	5.0	0.66	
Vinyl Chloride	75-01-4	ND		ug/L	2.0	0.53	

Surrogate	CASNo	Result	Flags	Units	PQL	MDL	Spike	% Recov	LCL	UCL	Rerun #:
1,2-Dichloroethane-d4	17060-07-0	47		ug/L	2.0	0.50	50	**94.8**	75	121	1
Dibromofluoromethane	1868-53-7	52		ug/L	2.0	0.20	50	**103**	76	122	
p-Bromofluorobenzene	460-00-4	44		ug/L	2.0	0.50	50	**88.1**	80	120	
Toluene D-8	108-88-3D	52		ug/L	2.0	0.22	50	**103**	82	119	

Detailed Analytical Report

Analytica Alaska Inc.

Workorder (SDG): A0308089

Project: ARRC

Client: Alaska Railroad Corporation

Client Project Number: 8814-00

Report Section: Method Blank Report

Client Sample Name: MB

Matrix: Aqueous

Collection Date: 8/26/2003 12:00:00AM

The following test was conducted by: Analytica - Anchorage

Lab Sample Number: A030826004-MB
Prep Date: 8/26/2003
Analytical Method ID: ADEC AK102/103 - (DRO & RRO)
Prep Method ID: 3510
Prep Batch Number: A030826004
Report Basis: Dry Weight Basis
Sample prep wt./vol: 1,000.00 ml

Analysis Date: 8/29/2003 2:05:00PM
Instrument: Woof
File Name: W3082879.D
Dilution Factor:
Analyst Initials: HW
Prep Extract Vol: 1.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	Rerun #:
Diesel Range Organics	n/a	ND		mg/L	0.10	0.020	
Residual Range Organics	n/a	ND		mg/L	0.20	0.031	

Surrogate	CASNo	Result	Flags	Units	PQL	MDL	Spike	% Recov	LCL	UCL	Rerun #:
o-Terphenyl	84-15-1	**0.037**		mg/L	0.0050	0.00064	0.050	**74.7**	50	150	1
Squalane	111-01-3	**0.048**		mg/L	0.0050	0.00096	0.050	**96.4**	50	150	

The following test was conducted by: Analytica - Anchorage

Lab Sample Number: A030827002-MB
Prep Date: 8/27/2003
Analytical Method ID: ADEC AK101 - (GRO)
Prep Method ID: 5030
Prep Batch Number: A030827002
Report Basis: Dry Weight Basis
Sample prep wt./vol: 5.00 ml

Analysis Date: 8/27/2003 9:17:00AM
Instrument: Boris
File Name: B3082704.D
Dilution Factor:
Analyst Initials: SG
Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	Rerun #:
Gasoline Range Organics	n/a	ND		ug/L	50	3.0	

Surrogate	CASNo	Result	Flags	Units	PQL	MDL	Spike	% Recov	LCL	UCL	Rerun #:
Bromofluorobenzene	1072-85-1	**91**		ug/L	1.0	0.10	100	**90.9**	50	150	1
Difluorobenzene	540-36-3	**45**		ug/L	1.0	0.10	50	**89.5**	50	150	

The following test was conducted by: Analytica - Thornton

Lab Sample Number: T030829003-MB
Prep Date: 8/28/2003
Analytical Method ID: SW8260B - VOCs by GC/MS
Prep Method ID: P&TWater
Prep Batch Number: T030829003
Report Basis: Dry Weight Basis
Sample prep wt./vol: 5.00 ml

Analysis Date: 8/28/2003 3:34:00PM
Instrument: MS3VOA
File Name: 03082807.D
Dilution Factor:
Analyst Initials: mu
Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	Rerun #:
1,1,1,2-Tetrachloroethane	630-20-6	ND		ug/L	2.0	0.47	
1,1,1-Trichloroethane	71-55-6	ND		ug/L	2.0	0.61	
1,1,2,2-Tetrachloroethane	79-34-5	ND		ug/L	2.0	0.48	
1,1,2-Trichloroethane	79-00-5	ND		ug/L	2.0	0.41	
1,1-Dichloroethane	75-34-3	ND		ug/L	2.0	0.44	

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Report Section: Method Blank Report

Client Sample Name: **MB**

Matrix: Aqueous

Collection Date: 8/28/2003 12:00:00AM

Lab Sample Number: T030829003-MB

Prep Date: 8/28/2003

Analytical Method ID: SW8260B - VOCs by GC/MS

Prep Method ID: P&TWater

Prep Batch Number: T030829003

Report Basis: Dry Weight Basis

Sample prep wt./vol: 5.00 ml

Analysis Date: 8/28/2003 3:34:00PM

Instrument: MS3VOA

File Name: 03082807.D

Dilution Factor:

Analyst Initials: mu

Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	Rerun #:
1,1-Dichloroethene	75-35-4	ND		ug/L	2.0	0.53	1
1,1-Dichloropropene	563-58-6	ND		ug/L	2.0	0.43	
1,2,3-Trichlorobenzene	87-61-6	ND		ug/L	2.0	0.41	
1,2,3-Trichloropropane	96-18-4	ND		ug/L	2.0	0.61	
1,2,4-Trichlorobenzene	120-82-1	ND		ug/L	2.0	0.44	
1,2,4-Trimethylbenzene	95-63-6	ND		ug/L	2.0	0.48	
1,2-Dibromo-3-Chloropropane	96-12-8	ND		ug/L	10	0.32	
1,2-Dibromoethane	106-93-4	ND		ug/L	2.0	0.34	
1,2-Dichlorobenzene	95-50-1	ND		ug/L	2.0	0.51	
1,2-Dichloroethane	107-06-2	ND		ug/L	2.0	0.37	
1,2-Dichloropropane	78-87-5	ND		ug/L	2.0	0.51	
1,3,5-Trimethylbenzene	108-67-8	ND		ug/L	2.0	0.48	
1,3-Dichlorobenzene	541-73-1	ND		ug/L	2.0	0.55	
1,3-Dichloropropane	142-28-9	ND		ug/L	2.0	0.47	
1,4-Dichlorobenzene	106-46-7	ND		ug/L	2.0		
2,2-Dichloropropane	594-20-7	ND		ug/L	2.0	0.44	
2-Butanone	78-93-3	ND		ug/L	50	1.5	
2-Chloroethyl Vinyl Ether	110-75-8	ND		ug/L	10	0.24	
2-Chlorotoluene	95-49-8	ND		ug/L	2.0	0.57	
2-Hexanone	591-78-6	ND		ug/L	20	0.46	
4-Chlorotoluene	106-43-4	ND		ug/L	2.0	0.63	
4-Isopropyltoluene	99-87-6	ND		ug/L	2.0	0.55	
4-Methyl-2-Pentanone	108-10-1	ND		ug/L	20	0.36	
Acetone	67-64-1	ND		ug/L	50	3.2	
Acrylonitrile	107-13-1	ND		ug/L	10	0.41	
Benzene	71-43-2	ND		ug/L	2.0	0.32	
Bromobenzene	108-86-1	ND		ug/L	2.0	0.49	
Bromochloromethane	74-97-5	ND		ug/L	2.0	0.56	
Bromodichloromethane	75-27-4	ND		ug/L	2.0	0.42	
Bromoform	75-25-2	ND		ug/L	2.0	0.50	
Bromomethane	74-83-9	ND		ug/L	5.0	0.84	
Carbon Disulfide	75-15-0	ND		ug/L	2.0	0.46	
Carbon Tetrachloride	56-23-5	ND		ug/L	2.0	0.43	
Chlorobenzene	108-90-7	ND		ug/L	2.0	0.50	

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Report Section: Method Blank Report

Client Sample Name: **MB**

Matrix: Aqueous

Collection Date: 8/28/2003 12:00:00AM

Lab Sample Number: T030829003-MB

Prep Date: 8/28/2003

Analytical Method ID: SW8260B - VOCs by GC/MS

Prep Method ID: P&TWater

Prep Batch Number: T030829003

Report Basis: Dry Weight Basis

Sample prep wt./vol: 5.00 ml

Analysis Date: 8/28/2003 3:34:00PM

Instrument: MS3VOA

File Name: 03082807.D

Dilution Factor: 1

Analyst Initials: mu

Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	Rerun #:
Chloroethane	75-00-3	ND		ug/L	5.0	0.63	1
Chloroform	67-66-3	ND		ug/L	2.0	0.46	
Chloromethane	74-87-3	ND		ug/L	5.0	1.2	
Cis-1,2-Dichloroethene	156-59-2	ND		ug/L	2.0	0.47	
Cis-1,3-Dichloropropene	10061-015	ND		ug/L	2.0	0.39	
Dibromochloromethane	124-48-1	ND		ug/L	2.0	0.37	
Dibromomethane	74-95-3	ND		ug/L	2.0	0.41	
Dichlorodifluoromethane	75-71-8	ND		ug/L	5.0	1.5	
Ethylbenzene	100-41-4	ND		ug/L	2.0	0.47	
Hexachlorobutadiene	87-68-3	ND		ug/L	2.0	0.50	
Iodomethane	74-88-4	ND		ug/L	5.0	1.1	
Isopropylbenzene	98-82-8	ND		ug/L	2.0	0.48	
m&p Xylenes	108-38-3/106-	ND		ug/L	2.0	0.28	
Methylene Chloride	75-09-2	**0.72**	J	ug/L	5.0	0.47	
Naphthalene	91-20-3	ND		ug/L	2.0	0.31	
n-Butylbenzene	104-51-8	ND		ug/L	2.0	0.46	
n-Propylbenzene	103-65-1	ND		ug/L	2.0	0.50	
O-Xylene	95-47-6	ND		ug/L	2.0	0.46	
sec-Butylbenzene	135-98-8	ND		ug/L	2.0	0.52	
Styrene	100-42-5	ND		ug/L	2.0	0.58	
tert-Butyl Methyl Ether	1634-04-4	ND		ug/L	2.0	0.36	
tert-Butylbenzene	98-06-6	ND		ug/L	2.0	0.43	
Tetrachloroethene	127-18-4	ND		ug/L	2.0	0.45	
Toluene	108-88-3	ND		ug/L	2.0	0.55	
trans-1,2-Dichloroethene	156-60-5	ND		ug/L	2.0	0.61	
trans-1,3-Dichloropropene	10061-026	ND		ug/L	2.0	0.39	
trans-1,4-Dichloro-2 Buten	110-57-	ND		ug/L	10	0.86	
Trichloroethene	79-01-6	ND		ug/L	2.0	0.55	
Trichlorofluoromethane	75-69-4	ND		ug/L	2.0	0.51	
Trichlorotrifluoroethane	76-13-1	ND		ug/L	2.0	0.60	
Vinyl Acetate	108-05-4	ND		ug/L	5.0	0.66	
Vinyl Chloride	75-01-4	ND		ug/L	2.0	0.53	

Surrogate	CASNo	Result	Flags	Units	PQL	MDL	Spike	% Recov	LCL	UCL	Rerun #:
1,2-Dichloroethane-d4	17060-07-0	47		ug/L	2.0	0.50	50	**93.2**	75	121	

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Report Section: Method Blank Report

Client Sample Name: **MB**

Matrix: Aqueous

Collection Date: 8/28/2003 12:00:00AM

Lab Sample Number: T030829003-MB
Prep Date: 8/28/2003
Analytical Method ID: SW8260B - VOCs by GC/MS
Prep Method ID: P&TWater
Prep Batch Number: T030829003
Report Basis: Dry Weight Basis
Sample prep wt./vol: 5.00 ml

Analysis Date: 8/28/2003 3:34:00PM
Instrument: MS3VOA
File Name: 03082807.D
Dilution Factor:
Analyst Initials: mu
Prep Extract Vol: 5.00 ml

Dibromofluoromethane	1868-53-7	52	ug/L	2.0	0.20	50	**104**	76	122	1
p-Bromofluorobenzene	460-00-4	44	ug/L	2.0	0.50	50	**88.4**	80	120	
Toluene D-8	108-88-3D	52	ug/L	2.0	0.22	50	**104**	82	119	

Lab Sample Number: T030902007-MB
Prep Date: 8/29/2003
Analytical Method ID: SW8260B - VOCs by GC/MS
Prep Method ID: P&TWater
Prep Batch Number: T030902007
Report Basis: Dry Weight Basis
Sample prep wt./vol: 5.00 ml

Analysis Date: 8/29/2003 12:48:00PM
Instrument: MS3VOA
File Name: 03082907.D
Dilution Factor:
Analyst Initials: mu
Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	Rerun #:
1,1,1,2-Tetrachloroethane	630-20-6	ND		ug/L	2.0	0.47	
1,1,1-Trichloroethane	71-55-6	ND		ug/L	2.0	0.61	
1,1,2,2-Tetrachloroethane	79-34-5	ND		ug/L	2.0	0.48	
1,1,2-Trichloroethane	79-00-5	ND		ug/L	2.0	0.41	
1,1-Dichloroethane	75-34-3	ND		ug/L	2.0	0.44	
1,1-Dichloroethene	75-35-4	ND		ug/L	2.0	0.53	
1,1-Dichloropropene	563-58-6	ND		ug/L	2.0	0.43	
1,2,3-Trichlorobenzene	87-61-6	ND		ug/L	2.0	0.41	
1,2,3-Trichloropropane	96-18-4	ND		ug/L	2.0	0.61	
1,2,4-Trichlorobenzene	120-82-1	ND		ug/L	2.0	0.44	
1,2,4-Trimethylbenzene	95-63-6	ND		ug/L	2.0	0.48	
1,2-Dibromo-3-Chloropropane	96-12-8	ND		ug/L	10	0.32	
1,2-Dibromoethane	106-93-4	ND		ug/L	2.0	0.34	
1,2-Dichlorobenzene	95-50-1	ND		ug/L	2.0	0.51	
1,2-Dichloroethane	107-06-2	ND		ug/L	2.0	0.37	
1,2-Dichloropropane	78-87-5	ND		ug/L	2.0	0.51	
1,3,5-Trimethylbenzene	108-67-8	ND		ug/L	2.0	0.48	
1,3-Dichlorobenzene	541-73-1	ND		ug/L	2.0	0.55	
1,3-Dichloropropane	142-28-9	ND		ug/L	2.0	0.47	
1,4-Dichlorobenzene	106-46-7	ND		ug/L	2.0	0.65	
2,2-Dichloropropane	594-20-7	ND		ug/L	2.0	0.44	
2-Butanone	78-93-3	ND		ug/L	50	1.5	
2-Chloroethyl Vinyl Ether	110-75-8	ND		ug/L	10	0.24	
2-Chlorotoluene	95-49-8	ND		ug/L	2.0	0.57	

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Report Section: Method Blank Report

Client Sample Name: **MB**

Matrix: Aqueous

Collection Date: 8/29/2003 12:00:00AM

Lab Sample Number: T030902007-MB

Prep Date: 8/29/2003

Analytical Method ID: SW8260B - VOCs by GC/MS

Prep Method ID: P&TWater

Prep Batch Number: T030902007

Report Basis: Dry Weight Basis

Sample prep wt./vol: 5.00 ml

Analysis Date: 8/29/2003 12:48:00PM

Instrument: MS3VOA

File Name: 03082907.D

Dilution Factor:

Analyst Initials: mu

Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	Rerun #:
2-Hexanone	591-78-6	ND		ug/L	20	0.46	
4-Chlorotoluene	106-43-4	ND		ug/L	2.0	0.63	
4-Isopropyltoluene	99-87-6	ND		ug/L	2.0	0.55	
4-Methyl-2-Pentanone	108-10-1	ND		ug/L	20	0.36	
Acetone	67-64-1	ND		ug/L	50	3.2	
Acrylonitrile	107-13-1	ND		ug/L	10	0.41	
Benzene	71-43-2	ND		ug/L	2.0	0.32	
Bromobenzene	108-86-1	ND		ug/L	2.0	0.49	
Bromochloromethane	74-97-5	ND		ug/L	2.0	0.56	
Bromodichloromethane	75-27-4	ND		ug/L	2.0	0.42	
Bromoform	75-25-2	ND		ug/L	2.0	0.50	
Bromomethane	74-83-9	ND		ug/L	5.0	0.84	
Carbon Disulfide	75-15-0	ND		ug/L	2.0	0.46	
Carbon Tetrachloride	56-23-5	ND		ug/L	2.0	0.43	
Chlorobenzene	108-90-7	ND		ug/L	2.0	0.50	
Chloroethane	75-00-3	ND		ug/L	5.0	0.63	
Chloroform	67-66-3	ND		ug/L	2.0	0.46	
Chloromethane	74-87-3	ND		ug/L	5.0	1.2	
Cis-1,2-Dichloroethene	156-59-2	ND		ug/L	2.0	0.47	
Cis-1,3-Dichloropropene	10061-015	ND		ug/L	2.0	0.39	
Dibromochloromethane	124-48-1	ND		ug/L	2.0	0.37	
Dibromomethane	74-95-3	ND		ug/L	2.0	0.41	
Dichlorodifluoromethane	75-71-8	ND		ug/L	5.0	1.5	
Ethylbenzene	100-41-4	ND		ug/L	2.0	0.47	
Hexachlorobutadiene	87-68-3	ND		ug/L	2.0	0.50	
Iodomethane	74-88-4	ND		ug/L	5.0	1.1	
Isopropylbenzene	98-82-8	ND		ug/L	2.0	0.48	
m&p Xylenes	108-38-3/106-	ND		ug/L	2.0	0.28	
Methylene Chloride	75-09-2	0.93	J	ug/L	5.0	0.47	
Naphthalene	91-20-3	ND		ug/L	2.0	0.31	
n-Butylbenzene	104-51-8	ND		ug/L	2.0	0.46	
n-Propylbenzene	103-65-1	ND		ug/L	2.0	0.50	
O-Xylene	95-47-6	ND		ug/L	2.0	0.46	
sec-Butylbenzene	135-98-8	ND		ug/L	2.0	0.52	

Detailed Analytical Report

Analytica Environmental Laboratories, Inc

Workorder (SDG): A0308089

Project: ARRC

Client: Alaska Railroad Corporation

Client Project Number: 8814-00

Report Section: Method Blank Report

Client Sample Name: MB

Matrix: Aqueous

Collection Date: 8/29/2003 12:00:00AM

Lab Sample Number: T030902007-MB
Prep Date: 8/29/2003
Analytical Method ID: SW8260B - VOCs by GC/MS
Prep Method ID: P&TWater
Prep Batch Number: T030902007
Report Basis: Dry Weight Basis
Sample prep wt./vol: 5.00 ml

Analysis Date: 8/29/2003 12:48:00PM
Instrument: MS3VOA
File Name: 03082907.D
Dilution Factor:
Analyst Initials: mu
Prep Extract Vol 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	Rerun #:
Styrene	100-42-5	ND		ug/L	2.0	0.58	1
tert-Butyl Methyl Ether	1634-04-4	ND		ug/L	2.0	0.36	
tert-Butylbenzene	98-06-6	ND		ug/L	2.0	0.43	
Tetrachloroethene	127-18-4	ND		ug/L	2.0	0.45	
Toluene	108-88-3	ND		ug/L	2.0	0.55	
trans-1,2-Dichloroethene	156-60-5	ND		ug/L	2.0	0.61	
trans-1,3-Dichloropropene	10061-026	ND		ug/L	2.0	0.39	
trans-1,4-Dichloro-2 Buten	110-57-	ND		ug/L	10	0.86	
Trichloroethene	79-01-6	ND		ug/L	2.0	0.55	
Trichlorofluoromethane	75-69-4	ND		ug/L	2.0	0.51	
Trichlorotrifluoroethane	76-13-1	ND		ug/L	2.0	0.60	
Vinyl Acetate	108-05-4	ND		ug/L	5.0	0.66	
Vinyl Chloride	75-01-4	ND		ug/L	2.0	0.53	

Surrogate	CASNo	Result	Flags	Units	PQL	MDL	Spike	% Recov	LCL	UCL	Rerun #:
1,2-Dichloroethane-d4	17060-07-0	47		ug/L	2.0	0.50	50	**94.4**	75	121	1
Dibromofluoromethane	1868-53-7	52		ug/L	2.0	0.20	50	**105**	76	122	
p-Bromofluorobenzene	460-00-4	45		ug/L	2.0	0.50	50	**89.0**	80	120	
Toluene D-8	108-88-3D	52		ug/L	2.0	0.22	50	**104**	82	119	

The following test was conducted by: Analytica - Thornton

Lab Sample Number: T030828004-MB
Prep Date: 8/28/2003
Analytical Method ID: SW7470A - Mercury in Liquid Waste by CVAA - Total Hg
Prep Method ID: 7470A
Prep Batch Number: T030828004
Report Basis: Dry Weight Basis
Sample prep wt./vol: 20.00 ml

Analysis Date: 8/29/2003 12:45:12PM
Instrument: CVAA_1
File Name: B0308293.WK
Dilution Factor: 1
Analyst Initials: JC
Prep Extract Vol 20.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	Rerun #:
Mercury	7439-97-6	ND		mg/L	0.00020	0.000060	1

The following test was conducted by: Analytica - Thornton

Lab Sample Number: T030830002-MB
Prep Date: 8/30/2003
Analytical Method ID: SW6010B - ICP - Total
Prep Method ID: 3010A

Analysis Date: 9/2/2003 12:20:00PM
Instrument: ICP_2
File Name: E09023A
Dilution Factor:

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Report Section: Method Blank Report

Client Sample Name: **MB**

Matrix: Aqueous

Collection Date: 8/30/2003 12:00:00AM

Prep Batch Number: T030830002

Report Basis: Dry Weight Basis

Analyst Initials: CCJ

Sample prep wt./vol: 50.00 ml

Prep Extract Vol: 50.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	Rerun #:
Arsenic	7440-38-2	ND		mg/L	0.10	0.015	
Barium	7440-39-3	ND		mg/L	0.010	0.00016	
Cadmium	7440-43-9	ND		mg/L	0.0060	0.00051	
Chromium	7440-47-3	ND		mg/L	0.010	0.0018	
Lead	7439-92-1	ND		mg/L	0.050	0.011	
Selenium	7784-49-2	ND		mg/L	0.10	0.026	
Silver	7440-22-4	ND		mg/L	0.015	0.00066	

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Tests Run at: Analytica Environmental Laboratories - Anchorage, Alaska

Workorder (SDG): A0308089

Project: ARRC

Project Number:

Prep Batch: **A030826004**

QUALITY CONTROL REPORT

LCS/LCSD REPORT

Analysis: ADEC AK102/103 - (DRO & RRO)

MB: A030826004-MB

Prep Date: 8/26/2003

MB Anal. Date: 8/29/2003 2:05:00PM

Units: mg/L

LCS Anal. Date: 8/29/2003 2:33:00PM LCSD Anal. Date: 8/29/2003 3:02:00PM

Matrix: Aqueous

Analyte Name	SampResult	LCSRes.	SDRes.	SPLev	SPDLev	Recov.	SD Recov	RPD	Recov Lim	RPDLim	Flag
Diesel Range Organics	ND	1.64	1.68	2.00	2.00	82.0	84.0	2.4	60 - 120	20	
Residual Range Organics	ND	1.87	2.05	2.00	2.00	93.5	102.5	9.2	60 - 120	20	

FOOTNOTES TO QC REPORT

Note 1: Results are shown to three significant figures to avoid rounding errors in calculations.

Note 2: If the sample concentration is greater than 4 times the spike level, a recovery is not meaningful, and the result should be used as a replicate. In such cases the spike is not as high as expected random measurement variability of the sample result itself.

Note 3: For sample duplicates, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample and duplicate results are not five times the PQL or greater, then the RPD is not expected to fall within the window shown and the comparison should be made on the basis of the absolute difference. Analytica uses the criterion that the absolute difference should be less than the PQL for water or less than 2XPQL for other matrices.

Note 4: For serial dilutions, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample result is not 50 times the MDL or greater, then the fact that the RPD does not meet the 10% criterion has little signifcance. Otherwise it indicates that a matrix bias may exist at the analytical step.

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Tests Run at: Analytica Environmental Laboratories - Anchorage, Alaska

Workorder (SDG): A0308089

Project: ARRC

Project Number:

Prep Batch: **A030827002**

QUALITY CONTROL REPORT

LCS/LCSD REPORT

Analysis: ADEC AK101 - (GRO)

MB: A030827002-MB

Prep Date: 8/27/2003

MB Anal. Date: 8/27/2003 9:17:00AM

Units: ug/L

LCS Anal. Date: 8/27/2003 10:00:00AM LCSD Anal. Date: 8/27/2003 10:33:00AM Matrix: Aqueous

Analyte Name	SampResult	LCSRes.	SDRes.	SPLev	SPDLev	Recov.	SD Recov	RPD	Recov Lim	RPDLim	Flag
Gasoline Range Organics	ND	1,100	1,090	1,100	1,100	100.0	99.1	0.9	60 - 120	20	

FOOTNOTES TO QC REPORT

Note 1: Results are shown to three significant figures to avoid rounding errors in calculations.

Note 2: If the sample concentration is greater than 4 times the spike level, a recovery is not meaningful, and the result should be used as a replicate. In such cases the spike is not as high as expected random measurement variability of the sample result itself.

Note 3: For sample duplicates, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample and duplicate results are not five times the PQL or greater, then the RPD is not expected to fall within the window shown and the comparison should be made on the basis of the absolute difference. Analytica uses the criterion that the absolute difference should be less than the PQL for water or less than 2XPQL for other matrices.

Note 4: For serial dilutions, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample result is not 50 times the MDL or greater, then the fact that the RPD does not meet the 10% criterion has little signifcance. Otherwise it indicates that a matrix bias may exist at the analytical step.

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Tests Run at: Analytica Environmental Laboratories - Thornton, Colorado

Workorder (SDG): A0308089

Project: ARRC

Project Number:

Prep Batch: **T030829003**

QUALITY CONTROL REPORT

LCS/LCSD REPORT

Analysis: SW8260B - VOCs by GC/MS

MB: T030829003-MB

Prep Date: 8/28/2003

MB Anal. Date: 8/28/2003 3:34:00PM

Units: ug/L

LCS Anal. Date: 8/28/2003 1:21:00PM LCSD Anal. Date: 8/28/2003 1:54:00PM

Matrix: Aqueous

Analyte Name	SampResult	LCSRes.	SDRes.	SPLev	SPDLev	Recov.	SD Recov	RPD	Recov Lim	RPDLim	Flag
Cis-1,2-Dichloroethene	ND	28.9	29.7	25.0	25.0	115.6	118.8	2.7	82 - 128	20	
Bromochloromethane	ND	27.0	29.1	25.0	25.0	108.0	116.4	7.5	75 - 133	20	
Chloroform	ND	26.9	27.1	25.0	25.0	107.6	108.4	0.7	81 - 128	20	
1,1,1-Trichloroethane	ND	27.1	28.1	25.0	25.0	108.4	112.4	3.6	77 - 124	20	
Carbon Tetrachloride	ND	25.4	25.9	25.0	25.0	101.6	103.6	1.9	75 - 125	20	
1,1-Dichloropropene	ND	27.7	27.8	25.0	25.0	110.8	111.2	0.4	75 - 125	20	
Benzene	ND	26.8	27.4	25.0	25.0	107.2	109.6	2.2	80 - 120	20	
1,2-Dichloroethane	ND	25.6	26.4	25.0	25.0	102.4	105.6	3.1	84 - 128	20	
Trichloroethene	ND	26.6	27.1	25.0	25.0	106.4	108.4	1.9	74 - 127	20	
1,2-Dichloropropane	ND	27.4	27.4	25.0	25.0	109.6	109.6	0.0	71 - 140	20	
Dibromomethane	ND	27.3	28.7	25.0	25.0	109.2	114.8	5.0	83 - 128	20	
Bromodichloromethane	ND	27.0	27.2	25.0	25.0	108.0	108.8	0.7	82 - 128	20	
Cis-1,3-Dichloropropene	ND	27.0	27.0	25.0	25.0	108.0	108.0	0.0	80 - 127	20	
Toluene	ND	28.6	29.1	25.0	25.0	114.4	116.4	1.7	80 - 120	20	
trans-1,3-Dichloropropene	ND	25.7	26.0	25.0	25.0	102.8	104.0	1.2	82 - 126	20	
1,1,2-Trichloroethane	ND	27.3	28.2	25.0	25.0	109.2	112.8	3.2	80 - 120	20	
Tetrachloroethene	ND	25.9	25.9	25.0	25.0	103.6	103.6	0.0	75 - 125	20	
1,3-Dichloropropane	ND	26.0	26.1	25.0	25.0	104.0	104.4	0.4	78 - 130	20	
1,2-Dibromoethane	ND	27.9	28.7	25.0	25.0	111.6	114.8	2.8	75 - 125	20	
Chlorobenzene	ND	24.4	24.5	25.0	25.0	97.6	98.0	0.4	80 - 120	20	
Ethylbenzene	ND	26.8	27.1	25.0	25.0	107.2	108.4	1.1	79 - 126	20	
1,1,1,2-Tetrachloroethane	ND	25.5	25.8	25.0	25.0	102.0	103.2	1.2	79 - 124	20	
m&p Xylenes	ND	54.7	55.1	50.0	50.0	109.4	110.2	0.7	76 - 119	20	
O-Xylene	ND	28.0	29.5	25.0	25.0	112.0	118.0	5.2	84 - 123	20	
Styrene	ND	27.7	29.4	25.0	25.0	110.8	117.6	6.0	85 - 124	20	
Bromoform	ND	26.2	27.5	25.0	25.0	104.8	110.0	4.8	70 - 135	20	
Isopropylbenzene	ND	25.5	25.7	25.0	25.0	102.0	102.8	0.8	73 - 127	20	
Bromobenzene	ND	24.5	24.3	25.0	25.0	98.0	97.2	0.8	79 - 126	20	
n-Propylbenzene	ND	26.7	26.8	25.0	25.0	106.8	107.2	0.4	70 - 130	20	
1,1,2,2-Tetrachloroethane	ND	24.5	25.0	25.0	25.0	98.0	100.0	2.0	75 - 127	20	

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Tests Run at: Analytica Environmental Laboratories - Thornton, Colorado

Workorder (SDG): A0308089

Project: ARRC

Project Number:

Prep Batch: **T030829003**

QUALITY CONTROL REPORT

LCS/LCSD REPORT

Analysis: SW8260B - VOCs by GC/MS

MB: T030829003-MB

Prep Date: 8/28/2003

MB Anal. Date: 8/28/2003 3:34:00PM

Units: ug/L

LCS Anal. Date: 8/28/2003 1:21:00PM LCSD Anal. Date: 8/28/2003 1:54:00PM

Matrix: Aqueous

Analyte Name	SampResult	LCSRes.	SDRes.	SPLev	SPDLev	Recov.	SD Recov	RPD	Recov Lim	RPDLim	Flag
1,2,3-Trichloropropane	ND	26.3	25.5	25.0	25.0	105.2	102.0	3.1	80 - 120	20	
2-Chlorotoluene	ND	25.4	25.6	25.0	25.0	101.6	102.4	0.8	76 - 131	20	
1,3,5-Trimethylbenzene	ND	25.3	25.1	25.0	25.0	101.2	100.4	0.8	70 - 130	20	
4-Chlorotoluene	ND	25.4	25.2	25.0	25.0	101.6	100.8	0.8	77 - 127	20	
tert-Butylbenzene	ND	25.6	25.5	25.0	25.0	102.4	102.0	0.4	73 - 125	20	
1,2,4-Trimethylbenzene	ND	25.6	25.3	25.0	25.0	102.4	101.2	1.2	75 - 125	20	
sec-Butylbenzene	ND	25.2	25.6	25.0	25.0	100.8	102.4	1.6	72 - 123	20	
4-Isopropyltoluene	ND	25.7	25.7	25.0	25.0	102.8	102.8	0.0	76 - 122	20	
1,3-Dichlorobenzene	ND	24.4	24.2	25.0	25.0	97.6	96.8	0.8	76 - 124	20	
1,4-Dichlorobenzene	ND	23.5	23.2	25.0	25.0	94.0	92.8	1.3	78 - 119	20	
n-Butylbenzene	ND	26.3	26.2	25.0	25.0	105.2	104.8	0.4	70 - 130	20	
1,2-Dichlorobenzene	ND	24.9	24.4	25.0	25.0	99.6	97.6	2.0	75 - 125	20	
1,2-Dibromo-3-Chloropropane	ND	25.0	25.8	25.0	25.0	100.0	103.2	3.1	70 - 130	20	
1,2,4-Trichlorobenzene	ND	26.3	26.3	25.0	25.0	105.2	105.2	0.0	75 - 125	20	
Hexachlorobutadiene	ND	26.9	25.9	25.0	25.0	107.6	103.6	3.8	50 - 131	20	
Naphthalene	ND	30.3	29.9	25.0	25.0	121.2	119.6	1.3	70 - 130	20	
1,2,3-Trichlorobenzene	ND	28.3	28.1	25.0	25.0	113.2	112.4	0.7	75 - 125	20	
Acetone	ND	24.2	25.4	25.0	25.0	96.8	101.6	4.8	44 - 152	20	
Acrylonitrile	ND	28.8	29.7	25.0	25.0	115.2	118.8	3.1	66 - 129	20	
2-Butanone	ND	28.2	29.4	25.0	25.0	112.8	117.6	4.2	60 - 140	20	
Carbon Disulfide	ND	27.4	27.9	25.0	25.0	109.6	111.6	1.8	68 - 128	20	
trans-1,4-Dichloro-2 Buten	ND	26.1	26.7	25.0	25.0	104.4	106.8	2.3	70 - 130	20	
2-Chloroethyl Vinyl Ether	ND	27.1	27.9	25.0	25.0	108.4	111.6	2.9	60 - 140	20	
2-Hexanone	ND	27.2	27.6	25.0	25.0	108.8	110.4	1.5	64 - 139	20	
Iodomethane	ND	16.9	21.4	25.0	25.0	67.6	85.6	23.5	52 - 146	20	RPD
4-Methyl-2-Pentanone	ND	26.5	26.8	25.0	25.0	106.0	107.2	1.1	67 - 135	20	
Vinyl Acetate	ND	24.7	26.7	25.0	25.0	98.8	106.8	7.8	60 - 140	20	
tert-Butyl Methyl Ether	ND	29.6	30.6	25.0	25.0	118.4	122.4	3.3	71 - 130	20	
Dibromochloromethane	ND	26.2	26.3	25.0	25.0	104.8	105.2	0.4	77 - 129	20	
Dichlorodifluoromethane	ND	25.8	25.1	25.0	25.0	103.2	100.4	2.8	60 - 140	20	

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Tests Run at: Analytica Environmental Laboratories - Thornton, Colorado

Workorder (SDG): A0308089

Project: ARRC

Project Number:

QUALITY CONTROL REPORT

Prep Batch: **T030829003**

LCS/LCSD REPORT

Analysis: SW8260B - VOCs by GC/MS

MB: T030829003-MB

Prep Date: 8/28/2003

MB Anal. Date: 8/28/2003 3:34:00PM

Units: ug/L

LCS Anal. Date: 8/28/2003 1:21:00PM LCSD Anal. Date: 8/28/2003 1:54:00PM Matrix: Aqueous

Analyte Name	SampResult	LCSRes.	SDRes.	SPLev	SPDLev	Recov.	SD Recov	RPD	Recov Lim	RPDLim	Flag
Chloromethane	ND	20.5	20.1	25.0	25.0	82.0	80.4	2.0	61 - 129	20	
Vinyl Chloride	ND	26.5	26.3	25.0	25.0	106.0	105.2	0.8	64 - 124	20	
Bromomethane	ND	23.6	24.8	25.0	25.0	94.4	99.2	5.0	60 - 131	20	
Chloroethane	ND	27.0	26.8	25.0	25.0	108.0	107.2	0.7	66 - 133	20	
Trichlorofluoromethane	ND	28.1	28.2	25.0	25.0	112.4	112.8	0.4	50 - 118	20	
1,1-Dichloroethene	ND	27.6	28.3	25.0	25.0	110.4	113.2	2.5	74 - 140	20	
Trichlorotrifluoroethane	ND	29.1	29.2	25.0	25.0	116.4	116.8	0.3	60 - 140	20	
Methylene Chloride	0.720	26.5	26.7	25.0	25.0	106.0	106.8	0.8	62 - 140	20	
trans-1,2-Dichloroethene	ND	28.6	29.1	25.0	25.0	114.4	116.4	1.7	76 - 123	20	
1,1-Dichloroethane	ND	26.9	27.4	25.0	25.0	107.6	109.6	1.8	77 - 128	20	
2,2-Dichloropropane	ND	27.6	28.6	25.0	25.0	110.4	114.4	3.6	60 - 130	20	

Prep Batch: **T030902007**

LCS/LCSD REPORT

Analysis: SW8260B - VOCs by GC/MS

MB: T030902007-MB

Prep Date: 8/29/2003

MB Anal. Date: 8/29/2003 12:48:00PM

Units: ug/L

LCS Anal. Date: 8/29/2003 10:37:00AM LCSD Anal. Date: 8/29/2003 11:10:00AM Matrix: Aqueous

Analyte Name	SampResult	LCSRes.	SDRes.	SPLev	SPDLev	Recov.	SD Recov	RPD	Recov Lim	RPDLim	Flag
Dichlorodifluoromethane	ND	28.8	29.1	25.0	25.0	115.2	116.4	1.0	60 - 140	20	
Chloromethane	ND	23.8	23.2	25.0	25.0	95.2	92.8	2.6	61 - 129	20	
Vinyl Chloride	ND	30.1	30.4	25.0	25.0	120.4	121.6	1.0	64 - 124	20	
Bromomethane	ND	28.6	27.7	25.0	25.0	114.4	110.8	3.2	60 - 131	20	
Chloroethane	ND	30.5	29.8	25.0	25.0	122.0	119.2	2.3	66 - 133	20	
Trichlorofluoromethane	ND	30.5	30.9	25.0	25.0	122.0	123.6	1.3	50 - 118	20	high,highdup
1,1-Dichloroethene	ND	30.4	29.9	25.0	25.0	121.6	119.6	1.7	74 - 140	20	
Trichlorotrifluoroethane	ND	29.0	27.7	25.0	25.0	116.0	110.8	4.6	60 - 140	20	
Methylene Chloride	0.930	29.2	28.8	25.0	25.0	116.8	115.2	1.4	62 - 140	20	

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Tests Run at: Analytica Environmental Laboratories - Thornton, Colorado

Workorder (SDG): A0308089

Project: ARRC

Project Number:

Prep Batch: **T030902007**

QUALITY CONTROL REPORT

LCS/LCSD REPORT

Analysis: SW8260B - VOCs by GC/MS

MB: T030902007-MB

Prep Date: 8/29/2003

MB Anal. Date: 8/29/2003 12:48:00PM

Units: ug/L

LCS Anal. Date: 8/29/2003 10:37:00AM LCSD Anal. Date: 8/29/2003 11:10:00AM Matrix: Aqueous

Analyte Name	SampResult	LCSRes.	SDRes.	SPLev	SPDLev	Recov.	SD Recov	RPD	Recov Lim	RPDLim	Flag
trans-1,2-Dichloroethene	ND	31.0	30.4	25.0	25.0	124.0	121.6	2.0	76 - 123	20	high
1,1-Dichloroethane	ND	28.8	28.5	25.0	25.0	115.2	114.0	1.0	77 - 128	20	
2,2-Dichloropropane	ND	19.0	18.8	25.0	25.0	76.0	75.2	1.1	60 - 130	20	
Cis-1,2-Dichloroethene	ND	30.6	30.2	25.0	25.0	122.4	120.8	1.3	82 - 128	20	
Bromochloromethane	ND	29.2	29.0	25.0	25.0	116.8	116.0	0.7	75 - 133	20	
Chloroform	ND	28.4	28.1	25.0	25.0	113.6	112.4	1.1	81 - 128	20	
1,1,1-Trichloroethane	ND	29.7	29.1	25.0	25.0	118.8	116.4	2.0	77 - 124	20	
Carbon Tetrachloride	ND	27.1	26.2	25.0	25.0	108.4	104.8	3.4	75 - 125	20	
1,1-Dichloropropene	ND	28.8	27.8	25.0	25.0	115.2	111.2	3.5	75 - 125	20	
Benzene	ND	28.3	27.8	25.0	25.0	113.2	111.2	1.8	80 - 120	20	
1,2-Dichloroethane	ND	26.5	26.2	25.0	25.0	106.0	104.8	1.1	84 - 128	20	
Trichloroethene	ND	27.7	26.8	25.0	25.0	110.8	107.2	3.3	74 - 127	20	
1,2-Dichloropropane	ND	28.3	27.6	25.0	25.0	113.2	110.4	2.5	71 - 140	20	
Dibromomethane	ND	28.7	28.7	25.0	25.0	114.8	114.8	0.0	83 - 128	20	
Bromodichloromethane	ND	28.1	27.3	25.0	25.0	112.4	109.2	2.9	82 - 128	20	
Cis-1,3-Dichloropropene	ND	25.2	24.6	25.0	25.0	100.8	98.4	2.4	80 - 127	20	
Toluene	ND	29.4	29.4	25.0	25.0	117.6	117.6	0.0	80 - 120	20	
trans-1,3-Dichloropropene	ND	24.3	23.4	25.0	25.0	97.2	93.6	3.8	82 - 126	20	
1,1,2-Trichloroethane	ND	28.2	28.2	25.0	25.0	112.8	112.8	0.0	80 - 120	20	
Tetrachloroethene	ND	25.7	25.3	25.0	25.0	102.8	101.2	1.6	75 - 125	20	
1,3-Dichloropropane	ND	26.0	25.6	25.0	25.0	104.0	102.4	1.6	78 - 130	20	
1,2-Dibromoethane	ND	28.7	28.5	25.0	25.0	114.8	114.0	0.7	75 - 125	20	
Chlorobenzene	ND	25.0	24.3	25.0	25.0	100.0	97.2	2.8	80 - 120	20	
Ethylbenzene	ND	27.0	26.7	25.0	25.0	108.0	106.8	1.1	79 - 126	20	
1,1,1,2-Tetrachloroethane	ND	25.8	25.4	25.0	25.0	103.2	101.6	1.6	79 - 124	20	
m&p Xylenes	ND	55.1	53.7	50.0	50.0	110.2	107.4	2.6	76 - 119	20	
O-Xylene	ND	28.4	28.4	25.0	25.0	113.6	113.6	0.0	84 - 123	20	
Styrene	ND	27.9	28.2	25.0	25.0	111.6	112.8	1.1	85 - 124	20	
Bromoform	ND	25.9	26.1	25.0	25.0	103.6	104.4	0.8	70 - 135	20	
Isopropylbenzene	ND	25.9	25.4	25.0	25.0	103.6	101.6	1.9	73 - 127	20	

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Tests Run at: Analytica Environmental Laboratories - Thornton, Colorado

Workorder (SDG): A0308089

Project: ARRC

Project Number:

QUALITY CONTROL REPORT

Prep Batch: **T030902007**

LCS/LCSD REPORT

Analysis: SW8260B - VOCs by GC/MS

MB: T030902007-MB

Prep Date: 8/29/2003

MB Anal. Date: 8/29/2003 12:48:00PM

Units: ug/L

LCS Anal. Date: 8/29/2003 10:37:00AM LCSD Anal. Date: 8/29/2003 11:10:00AM Matrix: Aqueous

Analyte Name	SampResult	LCSRes.	SDRes.	SPLev	SPDLev	Recov.	SD Recov	RPD	Recov Lim	RPDLim	Flag
Bromobenzene	ND	25.0	24.8	25.0	25.0	100.0	99.2	0.8	79 - 126	20	
n-Propylbenzene	ND	26.9	26.0	25.0	25.0	107.6	104.0	3.4	70 - 130	20	
1,1,2,2-Tetrachloroethane	ND	24.2	24.7	25.0	25.0	96.8	98.8	2.0	75 - 127	20	
1,2,3-Trichloropropane	ND	25.4	26.8	25.0	25.0	101.6	107.2	5.4	80 - 120	20	
2-Chlorotoluene	ND	25.8	24.9	25.0	25.0	103.2	99.6	3.6	76 - 131	20	
1,3,5-Trimethylbenzene	ND	25.5	24.7	25.0	25.0	102.0	98.8	3.2	70 - 130	20	
4-Chlorotoluene	ND	25.7	24.9	25.0	25.0	102.8	99.6	3.2	77 - 127	20	
tert-Butylbenzene	ND	25.8	24.9	25.0	25.0	103.2	99.6	3.6	73 - 125	20	
1,2,4-Trimethylbenzene	ND	25.9	24.9	25.0	25.0	103.6	99.6	3.9	75 - 125	20	
sec-Butylbenzene	ND	25.7	24.9	25.0	25.0	102.8	99.6	3.2	72 - 123	20	
4-Isopropyltoluene	ND	25.8	25.1	25.0	25.0	103.2	100.4	2.8	76 - 122	20	
1,3-Dichlorobenzene	ND	24.6	24.2	25.0	25.0	98.4	96.8	1.6	76 - 124	20	
1,4-Dichlorobenzene	ND	23.9	23.1	25.0	25.0	95.6	92.4	3.4	78 - 119	20	
n-Butylbenzene	ND	26.1	24.7	25.0	25.0	104.4	98.8	5.5	70 - 130	20	
1,2-Dichlorobenzene	ND	25.3	24.5	25.0	25.0	101.2	98.0	3.2	75 - 125	20	
1,2-Dibromo-3-Chloropropane	ND	24.0	24.6	25.0	25.0	96.0	98.4	2.5	70 - 130	20	
1,2,4-Trichlorobenzene	ND	25.0	24.1	25.0	25.0	100.0	96.4	3.7	75 - 125	20	
Hexachlorobutadiene	ND	26.4	24.2	25.0	25.0	105.6	96.8	8.7	50 - 131	20	
Naphthalene	ND	27.5	26.2	25.0	25.0	110.0	104.8	4.8	70 - 130	20	
1,2,3-Trichlorobenzene	ND	27.6	24.9	25.0	25.0	110.4	99.6	10.3	75 - 125	20	
Acetone	ND	28.4	28.1	25.0	25.0	113.6	112.4	1.1	44 - 152	20	
Acrylonitrile	ND	27.4	28.2	25.0	25.0	109.6	112.8	2.9	66 - 129	20	
2-Butanone	ND	27.1	28.0	25.0	25.0	108.4	112.0	3.3	60 - 140	20	
Carbon Disulfide	ND	28.8	27.9	25.0	25.0	115.2	111.6	3.2	68 - 128	20	
trans-1,4-Dichloro-2 Buten	ND	20.5	21.6	25.0	25.0	82.0	86.4	5.2	70 - 130	20	
2-Chloroethyl Vinyl Ether	ND	25.0	25.7	25.0	25.0	100.0	102.8	2.8	60 - 140	20	
2-Hexanone	ND	24.7	25.5	25.0	25.0	98.8	102.0	3.2	64 - 139	20	
Iodomethane	ND	20.5	22.2	25.0	25.0	82.0	88.8	8.0	52 - 146	20	
4-Methyl-2-Pentanone	ND	24.0	24.3	25.0	25.0	96.0	97.2	1.2	67 - 135	20	
Vinyl Acetate	ND	19.6	21.1	25.0	25.0	78.4	84.4	7.4	60 - 140	20	

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Tests Run at: Analytica Environmental Laboratories - Thornton, Colorado

Workorder (SDG): A0308089

Project: ARRC

Project Number:

Prep Batch: **T030902007**

QUALITY CONTROL REPORT

LCS/LCSD REPORT

Analysis: SW8260B - VOCs by GC/MS

MB: T030902007-MB

Prep Date: 8/29/2003

MB Anal. Date: 8/29/2003 12:48:00PM

Units: ug/L

LCS Anal. Date: 8/29/2003 10:37:00AM LCSD Anal. Date: 8/29/2003 11:10:00AM Matrix: Aqueous

Analyte Name	SampResult	LCSRes.	SDRes.	SPLev	SPDLev	Recov.	SD Recov	RPD	Recov Lim	RPDLim	Flag
tert-Butyl Methyl Ether	ND	28.7	29.5	25.0	25.0	114.8	118.0	2.7	71 - 130	20	
Dibromochloromethane	ND	26.1	25.7	25.0	25.0	104.4	102.8	1.5	77 - 129	20	

FOOTNOTES TO QC REPORT

Note 1: Results are shown to three significant figures to avoid rounding errors in calculations.

Note 2: If the sample concentration is greater than 4 times the spike level, a recovery is not meaningful, and the result should be used as a replicate. In such cases the spike is not as high as expected random measurement variability of the sample result itself.

Note 3: For sample duplicates, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample and duplicate results are not five times the PQL or greater, then the RPD is not expected to fall within the window shown and the comparison should be made on the basis of the absolute difference. Analytica uses the criterion that the absolute difference should be less than the PQL for water or less than 2XPQL for other matrices.

Note 4: For serial dilutions, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample result is not 50 times the MDL or greater, then the fact that the RPD does not meet the 10% criterion has little signifcance. Otherwise it indicates that a matrix bias may exist at the analytical step.

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Tests Run at: Analytica Environmental Laboratories - Thornton, Colorado

Workorder (SDG): A0308089

Project: ARRC

Project Number:

QUALITY CONTROL REPORT

Prep Batch: **T030830002**

LCS REPORT

Analysis: SW6010B - ICP - Total

MB: T030830002-MB

Prep Date: 8/30/2003

MB Anal. Date: 9/2/2003 12:20:00PM

Units: mg/L

LCS Anal. Date: 9/2/2003 12:24:00PM

Matrix: Aqueous

Analyte Name	SampResult	LCSRes.	SPLev	Recov.	Recov Lim	RPDLim	Flag
Arsenic	ND	2.12	2.00	106.0	91 - 115		
Barium	ND	2.01	2.00	100.5	91 - 115		
Cadmium	ND	0.0497	0.0500	99.4	77 - 115		
Chromium	ND	0.210	0.200	105.0	94 - 115		
Lead	ND	0.520	0.500	104.0	91 - 115		
Selenium	ND	2.13	2.00	106.5	90 - 115		
Silver	ND	0.0539	0.0500	107.8	91 - 115		

Prep Batch: **T030828004**

LCS REPORT

Analysis: SW7470A - Mercury in Liquid Waste by CVAA - Total Hg

MB: T030828004-MB

Prep Date: 8/28/2003

MB Anal. Date: 8/29/2003 12:45:12PM

Units: mg/L

LCS Anal. Date: 8/29/2003 12:47:32PM

Matrix: Aqueous

Analyte Name	SampResult	LCSRes.	SPLev	Recov.	Recov Lim	RPDLim	Flag
Mercury	ND	0.00480	0.00496	96.8	80 - 120		

FOOTNOTES TO QC REPORT

Note 1: Results are shown to three significant figures to avoid rounding errors in calculations.

Note 2: If the sample concentration is greater than 4 times the spike level, a recovery is not meaningful, and the result should be used as a replicate. In such cases the spike is not as high as expected random measurement variability of the sample result itself.

Note 3: For sample duplicates, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample and duplicate results are not five times the PQL or greater, then the RPD is not expected to fall within the window shown and the comparison should be made on the basis of the absolute difference. Analytica uses the criterion that the absolute difference should be less than the PQL for water or less than 2XPQL for other matrices.

Note 4: For serial dilutions, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample result is not 50 times the MDL or greater, then the fact that the RPD does not meet the 10% criterion has little signifcance. Otherwise it indicates that a matrix bias may exist at the analytical step.

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

SURROGATE RECOVERY SUMMARY REPORT

Test Method: **ADEC AK102/103 - (DRO & RRO)**

Lab Sample #: A0308085-01C | Dilution: 1
Analysis Date: 8/29/2003 9:14:00PM | Client Sample: **Batch QC**
Batch Number: A030826004 | Data File: W3082893.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
o-Terphenyl	86	50	150		
Squalane	99	50	150		Complete

Lab Sample #: A0308089-01B | Dilution: 1
Analysis Date: 8/29/2003 9:43:00PM | Client Sample: **2548 Post Rd- WW**
Batch Number: A030826004 | Data File: W3082894.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
o-Terphenyl	77	50	150		Complete
Squalane	107	50	150		Complete

Lab Sample #: A030826004-MB | Dilution:
Analysis Date: 8/29/2003 2:05:00PM | Client Sample: **MB**
Batch Number: A030826004 | Data File: W3082879.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
o-Terphenyl	75	60	120		Complete
Squalane	96	60	120		Complete

Lab Sample #:
Analysis Date: **LCS**
Batch Number: W3082880.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
o-Terphenyl	80	60	120		Complete
Squalane	94	60	120		Complete

Squalane Complete

Complete

Lab Sample #: A0308085-01C-MSD | Dilution:
Analysis Date: 8/29/2003 10:40:00PM | Client Sample: **MSD**
Batch Number: A030826004 | Data File: W3082896.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
o-Terphenyl	87	50	150		Complete
Squalane	105	50	150		Complete

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Test Method: **ADEC AK101 - (GRO)**

Lab Sample #: A0308085-01A | Dilution:
Analysis Date: 8/27/2003 11:07:00AM | Client Sample: **Batch QC**
Batch Number: A030827002 | Data File: B3082707.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
Bromofluorobenzene	88	[illegible]	150		Complete
Difluorobenzene			150		Complete

Lab Sample #: A0308089-01A | Dilution: 1
Analysis Date: 8/27/2003 1:51:00PM | Client Sample: **2548 Post Rd- WW**
Batch Number: A030827002 | Data File: B3082712.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
Bromofluorobenzene	85	50	150		Complete
Difluorobenzene	89	50	150		Complete

Complete
Complete

Result Status
91 120 Complete
90 120 Complete

A030827002-LCS | Dilution:
8/27/2003 10:00:00AM | Client Sample:
A030827002 | Data File:

UCL	Result Status
120	Complete
120	Complete

A030827002-LCSD | Dilution:
8/27/2003 10:33:00AM | Client Sample:
A030827002 | Data File:

UCL	Result Status
120	Complete
120	Complete

A0308085-01A-MS
8/27/2003 11:39:00AM
A030827002 B3082708.D

SSRecov			SSFlag	Result Status
98	50	150		Complete
100	50	150		Complete

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Test Method: **ADEC AK101 - (GRO)**

Lab Sample #:	A0308085-01A-MSD	Dilution:	1
Analysis Date:	8/27/2003 12:12:00PM	Client Sample:	**MSD**
Batch Number:	A030827002	Data File:	B3082709.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
Bromofluorobenzene	98	50	150		Complete
[illegible]	101	50	150		Complete

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Test Method: **SW8260B - VOCs by GC/MS**

Lab Sample #: A0308089-02A
Analysis Date: 8/28/2003 5:14:00PM
Batch Number: T030829003

Dilution: 1
Client Sample: **Trip Blank**
Data File: 03082810.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
1,2-Dichloroethane-d4	95	75	121		Complete
Dibromofluoromethane	103	76	122		Complete
p-Bromofluorobenzene	88	80	120		Complete
Toluene D-8	103	82	119		Complete

Lab Sample #: B0308242-01A
Analysis Date: 8/29/2003 1:21:00PM
Batch Number: T030902007

Dilution: 1
Client Sample: **Batch QC**
Data File: 03082908.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
1,2-Dichloroethane-d4	94	75	121		Complete
Dibromofluoromethane	105	76	122		Complete
p-Bromofluorobenzene	87	80	120		Complete
Toluene D-8	104	82	119		Complete

Lab Sample #: J0308238-03I
Analysis Date: 8/29/2003 1:54:00PM
Batch Number: T030902007

Dilution: 1
Client Sample: **Batch QC**
Data File: 03082909.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
1,2-Dichloroethane-d4	95	75	121		Complete
Dibromofluoromethane	106	76	122		Complete
p-Bromofluorobenzene	88	80	120		Complete
Toluene D-8	102	82	119		Complete

Lab Sample #: A0308089-01D
Analysis Date: 8/29/2003 3:34:00PM
Batch Number: T030902007

Dilution: 1
Client Sample: **2548 Post Rd- WW**
Data File: 03082912.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
1,2-Dichloroethane-d4	95	75	121		Complete
Dibromofluoromethane	105	76	122		Complete

Complete

Complete

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Test Method: **SW8260B - VOCs by GC/MS**

Lab Sample #: T030902007-MB
Analysis Date: 8/29/2003 12:48:00PM
Batch Number: T030902007
Dilution:
Client Sample: **MB**
Data File: 03082907.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
1,2-Dichloroethane-d4	94	75	121		Complete
Dibromofluoromethane	105	76	122		Complete
p-Bromofluorobenzene	89	80	120		Complete
Toluene D-8	104	82	119		Complete

Lab Sample #: T030829003-LCS
Analysis Date: 8/28/2003 1:21:00PM
Batch Number: T030829003
Dilution:
Client Sample: **LCS**
Data File: 03082803.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
1,2-Dichloroethane-d4	93	75	121		Complete
Dibromofluoromethane	101	76	122		Complete
p-Bromofluorobenzene	88	80	120		Complete
Toluene D-8	102	82	119		Complete

Lab Sample #: T030902007-LCS
Analysis Date: 8/29/2003 10:37:00AM
Batch Number: T030902007
Dilution: 1
Client Sample: **LCS**
Data File: 03082903.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
1,2-Dichloroethane-d4	93	75	121		Complete
Dibromofluoromethane	102	76	122		Complete
			119		Complete

Lab Sample #: T030829003-LCSD
Analysis Date: 8/28/2003 1:54:00PM
Batch Number: T030829003
Dilution: 1
Client Sample: **LCSD**
Data File: 03082804.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
1,2-Dichloroethane-d4	92	75	121		Complete
Dibromofluoromethane	101	76	122		Complete
p-Bromofluorobenzene	87	80	120		Complete
Toluene D-8	100	82	119		Complete

Lab Sample #: T030902007-LCSD
Analysis Date: 8/29/2003 11:10:00AM
Batch Number: T030902007
Dilution:
Client Sample: **LCSD**
Data File: 03082904.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
1,2-Dichloroethane-d4	93	75	121		Complete
Dibromofluoromethane	103	76	122		Complete
					Complete

Lab Sample #: J0308238-03I-MS
Analysis Date: 8/29/2003 6:19:00PM
Batch Number: T030902007
Dilution:
Client Sample: **MS**
Data File: 03082917.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

Test Method: **SW8260B - VOCs by GC/MS**

Lab Sample #: J0308238-03I-MS | Dilution: 1
Analysis Date: 8/29/2003 6:19:00PM | Client Sample: **MS**
Batch Number: T030902007 | Data File: 03082917.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
1,2-Dichloroethane-d4	97	75	121		Complete
Dibromofluoromethane	105	76	122		Complete
p-Bromofluorobenzene	94	80	120		Complete
Toluene D-8	101	82	119		Complete

Lab Sample #: B0308242-01A-MS | Dilution: 1
Analysis Date: 8/29/2003 7:25:00PM | Client Sample: **MS**
Batch Number: T030902007 | Data File: 03082919.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
1,2-Dichloroethane-d4	98	75	121		Complete
Dibromofluoromethane	105	76	122		Complete
p-Bromofluorobenzene	92	80	120		Complete
Toluene D-8	102	82	119		Complete

Lab Sample #: J0308238-03I-MSD | Dilution: 1
Analysis Date: 8/29/2003 6:53:00PM | Client Sample: **MSD**
Batch Number: T030902007 | Data File: 03082918.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
1,2-Dichloroethane-d4	98	75	121		Complete
Dibromofluoromethane	106	76	122		Complete
					Complete

Lab Sample #: B0308242-01A-MSD | Dilution:
Analysis Date: 8/29/2003 7:58:00PM | Client Sample: **MSD**
Batch Number: T030902007 | Data File: 03082920.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
1,2-Dichloroethane-d4	96	75	121		Complete
Dibromofluoromethane	104	76	122		Complete

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

QC BATCH ASSOCIATIONS - BY METHOD BLANK

Lab Project ID: **19,052** **Lab Project Number:** **A0308089**

Prep Date: 8/26/2003

Lab Method Blank Id: A030826004-MB
Prep Batch ID: A030826004
Method: ADEC AK102/103 - (DRO & RRO)

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

SampleNum	ClientSampleName	DataFile	AnalysisDate
A030826004-LCS	LCS	W3082880.D	8/29/2003 2:33:00PM
A030826004-LCSD	LCSD	W3082881.D	8/29/2003 3:02:00PM
A0308085-01C	Batch QC	W3082893.D	8/29/2003 9:14:00PM
A0308089-01B	2548 Post Rd- WW	W3082894.D	8/29/2003 9:43:00PM
A0308085-01C-MS	MS	W3082895.D	8/29/2003 10:11:00PM
A0308085-01C-MSD	MSD	W3082896.D	8/29/2003 10:40:00PM

Prep Date: 8/27/2003

Lab Method Blank Id: A030827002-MB
Prep Batch ID: A030827002
Method: ADEC AK101 - (GRO)

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

SampleNum	ClientSampleName	DataFile	AnalysisDate
A030827002-LCS	LCS	B3082705.D	8/27/2003 10:00:00AM
A030827002-LCSD	LCSD	B3082706.D	8/27/2003 10:33:00AM
A0308085-01A	Batch QC	B3082707.D	8/27/2003 11:07:00AM
A0308085-01A-MS	MS	B3082708.D	8/27/2003 11:39:00AM
A0308085-01A-MSD	MSD	B3082709.D	8/27/2003 12:12:00PM
A0308089-01A	2548 Post Rd- WW	B3082712.D	8/27/2003 1:51:00PM
A0308089-02B	Trip Blank	B3082716.D	8/27/2003 4:32:00PM

Prep Date: 8/28/2003

Lab Method Blank Id: T030828004-MB
Prep Batch ID: T030828004
Method: SW7470A - Mercury in Liquid Waste by CVAA - Total Hg

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

SampleNum	ClientSampleName	DataFile	AnalysisDate
A0308089-01C	2548 Post Rd- WW	B0308293.WKS	8/29/2003 12:50:12PM
B0308157-01A	Batch QC	B0308293.WKS	8/29/2003 12:52:37PM
T030828004-LCS	LCS	B0308293.WKS	8/29/2003 12:47:32PM
B0308157-01A-DUP	DUP	B0308293.WKS	8/29/2003 12:59:58PM
B0308157-01A-MS	MS	B0308293.WKS	8/29/2003 1:02:20PM

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

QC BATCH ASSOCIATIONS - BY METHOD BLANK

Lab Project ID: **19,052** **Lab Project Number:** **A0308089**

Prep Date: 8/28/2003

Lab Method Blank Id: T030829003-MB
Prep Batch ID: T030829003
Method: SW8260B - VOCs by GC/MS

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

SampleNum	ClientSampleName	DataFile	AnalysisDate
T030829003-LCS	LCS	03082803.D	8/28/2003 1:21:00PM
T030829003-LCSD	LCSD	03082804.D	8/28/2003 1:54:00PM
A0308089-02A	Trip Blank	03082810.D	8/28/2003 5:14:00PM

Prep Date: 8/30/2003

Lab Method Blank Id: T030830002-MB
Prep Batch ID: T030830002
Method: SW6010B - ICP - Total

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

SampleNum	ClientSampleName	DataFile	AnalysisDate
A0308089-01C	2548 Post Rd- WW	E09023A	9/2/2003 12:33:00PM
B0308176-09A	Batch QC	E09023A	9/2/2003 12:38:00PM
T030830002-LCS	LCS	E09023A	9/2/2003 12:24:00PM
B0308176-09A-DUP	DUP	E09023A	9/2/2003 12:42:00PM
B0308176-09A-MS	MS	E09023A	9/2/2003 12:47:00PM
B0308176-09A-MSD	MSD	E09023A	9/2/2003 12:51:00PM
B0308176-09A-PDS	PDS	E09023A	9/2/2003 12:56:00PM

'rep Date: 8/29/2003

Lab Method Blank Id: T030902007-MB
Prep Batch ID: T030902007
Method: SW8260B - VOCs by GC/MS

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

SampleNum	ClientSampleName	DataFile	AnalysisDate
T030902007-LCS	LCS	03082903.D	8/29/2003 10:37:00AM
T030902007-LCSD	LCSD	03082904.D	8/29/2003 11:10:00AM
B0308242-01A	Batch QC	03082908.D	8/29/2003 1:21:00PM
J0308238-03I	Batch QC	03082909.D	8/29/2003 1:54:00PM
A0308089-01D	2548 Post Rd- WW	03082912.D	8/29/2003 3:34:00PM
J0308238-03I-MS	MS	03082917.D	8/29/2003 6:19:00PM
J0308238-03I-MSD	MSD	03082918.D	8/29/2003 6:53:00PM
B0308242-01A-MS	MS	03082919.D	8/29/2003 7:25:00PM
B0308242-01A-MSD	MSD	03082920.D	8/29/2003 7:58:00PM

DATA FLAGS AND DEFINITIONS

The PQL is the Method Quantitation Limit as defined by USACE.
Reporting Limit: Limit below which results are shown as "ND". This may be the PQL, MDL, or a value between. See the report conventions below.

Result Field:

ND = Not Detected at or above the Reporting Limit
NA = Analyte not applicable (see Case Narrative for discussion)

Qualifier Fields:

LOW = Recovery is below Lower Control Limit
HIGH = Recovery , RPD, or other parameter is above Upper Control Limit
E = Reported concentration is above the instrument calibration upper range

Organic Analysis Flags:

B = Analyte was detected in the laboratory method blank
J = Analyte was detected above MDL or Reporting Limit but below the Quant Limit (PQL)

Inorganic Analysis Flags:

J = Analyte was detected above the Reporting Limit but below the Quant Limit (PQL)
W = Post digestion spike did not meet criteria
S = Reported value determined by the Method of Standard Additions (MSA)

Other Flags may be applied. See Case Narrative for Description

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): A0308089

Project: **ARRC**

Client: **Alaska Railroad Corporation**

Client Project Number: **8814-00**

REPORTING CONVENTIONS FOR THIS REPORT

A0308089

TestPkgName	Basis	# Sig Figs	Reporting Limit
6010B/3010A (Aqueous) - Total	As Received	2	Report to PQL
7470A/7470A (Aqueous) - Total Hg	As Received	2	Report to PQL
8260B/5030 (Aqueous)	As Received	2	Report to MDL, J qual below PQL
AK101/5030 (Aqueous) - (GRO)	As Received	2	Report to PQL
AK102/103/3510 (Aqueous) - (DRO & RRO)	As Received	2	Report to PQL

ANALYTICA
ALASKA Inc.

Support Documentation

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Cooler Receipt Form

AAI-ANCHORAGE

ANALYTICA

Client: Alaska Railroad Corporation **Client Code:** 002920 **Order #:** A0308089
Project: ARRC

Cooler ID: 1

A. Preliminary Examination Phase: **Date cooler opened:** 8/22/2003
Cooler opened by: dw **Signature:** Dorie Wheeler

1. **Was airbill Attached?** No **Airbill #:** **Carrier Name:** Client
2. **Custody Seals?** No **How many?** 0 **Location:** **Seal Name:**
3. **Seals intact?** N/A
4. **Screened for radiation?** N/A
5. **COC Attached?** Yes **Properly Completed?** Yes **Signed by AEL employee?** Yes
6. **Project Identification from custody paper:** ARRC
7. **Preservative:** BlueGel **Temperature:** 5.7

Designated person initial here to acknowledge receipt: DW **Date:** 8-25-03

COMMENTS:

B. Log-In Phase: **Samples Log-In Date:** 8/25 **Log-In By:** dw **Signature:** Dorie Wheeler

1. **Packing Type:** Bubblewrap
2. **Were samples in separate bags?** Yes
3. **Were containers intact?** Yes **Labels agree with COC?** Yes
4. **Number of bottles received:** 8 **Number of samples received:** 2
5. **Correct containers used?** Yes **Correct preservatives added?** Yes
6. **Sufficient sample volume?** Yes
7. **Bubbles in VOA samples?** No
8. **Was Project manager called and status discussed?** No
9. **Was anyone called?** No **Who was called?** _____ **By whom?** **Date:**

COMMENTS:

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Cooler Receipt Form

AEL-THORNTON

Client: Alaska Railroad Corporation **Client Code:** 002920 **Order #:** A0308089
Project: ARRC

Cooler ID: 2

A. Preliminary Examination Phase: **Date cooler opened:** 8/26/2003
Cooler opened by: DM **Signature:** Dan Morris

1. **Was airbill Attached?** Yes **Airbill #:** 790880889530 **Carrier Name:** FedEx
2. **Custody Seals?** Yes **How many?** 1 **Location:** top **Seal Name:** DW
3. **Seals intact?** Yes
4. **Screened for radiation?** N/A
5. **COC Attached?** Yes **Properly Completed?** Yes **Signed by AEL employee?** Yes
6. **Project Identification from custody paper:** ARRC
7. **Preservative:** BlueGel **Temperature:** 1.4

Designated person initial here to acknowledge receipt: DSM **Date:** 8-26-03

COMMENTS:

B. Log-In Phase: **Samples Log-in Date:** 8/27/2003 **Log-in By:** RA **Signature:** RRa

1. **Packing Type:** Bubblewrap
2. **Were samples in separate bags?** Yes
3. **Were containers intact?** Yes **Labels agree with COC?** Yes
4. **Number of bottles received:** 4 **Number of samples received:** 2
5. **Correct containers used?** Yes **Correct preservatives added?** Yes
6. **Sufficient sample volume?** Yes
7. **Bubbles in VOA samples?** No
8. **Was Project manager called and status discussed?** No
9. **Was anyone called?** No **Who was called?** _____ **By whom?** **Date:** _____

COMMENTS:

LP-022
Municipal Light & Power

Alaska Railroad Corporation

Corporate Address: P.O. Box 107500, Anchorage, Alaska 99510-7500
327 W. Ship Creek Avenue, Anchorage, Alaska 99501

TO Diane Richardson
US EPA Alaska Operations Office
222 West 7th Avenue, #19
Anchorage, AK 99513-7588

FROM Karen Morrissey
Director, Real Estate
907-265-2617

DATE July 3, 2003

RE: Third Transmittal of ADEC and ARRC Site Records

Enclosed are two copies of the third installment of deliverables in follow-up to our meetings of May 28-29, 2003. Some of the following sites have been evaluated to determine if drinking water is taken from the shallow aquifer in the Ship Creek lowlands or from the deeper artesian aquifer beneath the Bootlegger Cove clay aquitard. Other sites are subject to ongoing management by the leaseholder and ADEC. Applicable documents describing well depths or demonstrating ongoing site management are attached, but as was agreed, no attempt has been made to send the complete files, which are significant and represent years of site activity. Information on other sites, if available, will be delivered to you in Seattle at the time of the conference scheduled for July 8, 2003.

1 Site 6.17 – 2116 Post Road – formerly Polar Equipment, Inc.

- See attached Hart Crowser letter report dated June 26, 2003. The well is an old shallow aquifer source used solely for a single toilet at the facility.

2. Site 6.20 – 2548 Post Road – Robert A. Carlson/Wholesale Distributors of Alaska

- See attached Hart Crowser letter report dated June 26, 2003. This well is screened in the deeper confined aquifer.

3. Site 6.22 and Site 6.55 – Municipality of Anchorage, Municipal Light and Power (ML&P) and 800 Ship Creek Avenue (CV Wells, Jr.)

- Table of Contents, Abstract, list of Tables, Figures, Appendices for Off-site Characterization Study by META Environmental for the Electric Power Research Institute, dated October 1996
- Letter from ADEC to ML&P requesting a work plan for sampling monitoring wells for a period of one year, dated April 23, 1999

- Sampling work plan for 1999 submitted to ADEC, dated August 2, 1999
- Letter dated August 9, 1999 from ADEC approving sampling work plan
- Groundwater monitoring report submitted to ADEC, dated December 10, 1999

As stated in the Abstract by META Environmental in 1996 after area-wide investigation activities were conducted "The results of the off-site sampling and analysis program showed that impacts of the 1964 diesel spill were greatest at the near source location southwest of Power Plant 1 . . . .Impacts are "attenuated to near background levels at downgradient locations proximate to Ship Creek. . . Therefore, the off-site characterization study did not identify any substantially contaminated areas remote from the original source and identifies the downgradient limits of contaminated soil and groundwater. . . data collected from this and previous studies would be suitable for the purpose of estimating potential risk to human health and environmental receptors. Therefore, it would be appropriate to consider intrinsic remediation [natural attenuation] and risk-based corrective action when evaluating the preferred cleanup alternative." In summary, the highest concentrations of DRO were observed at and near the source, off of ARRC property. After this report was written in 1996, ADEC promulgated risk-based cleanup levels in 18AAC75. Additionally, only one well in 1999 had DRO levels above ADEC's risk-based concentrations, and this well is on ML&P property, not on ARRC property.

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4. **Site 6.25 – 459 West Bluff Road – Chevron USA Products Company**
   - Transmittal memo from Gettler-Ryan Inc. to Chevron dated November 11, 2002, submitting annual groundwater monitoring report, and containing a list of Figures and Tables in the report (copy to ADEC)

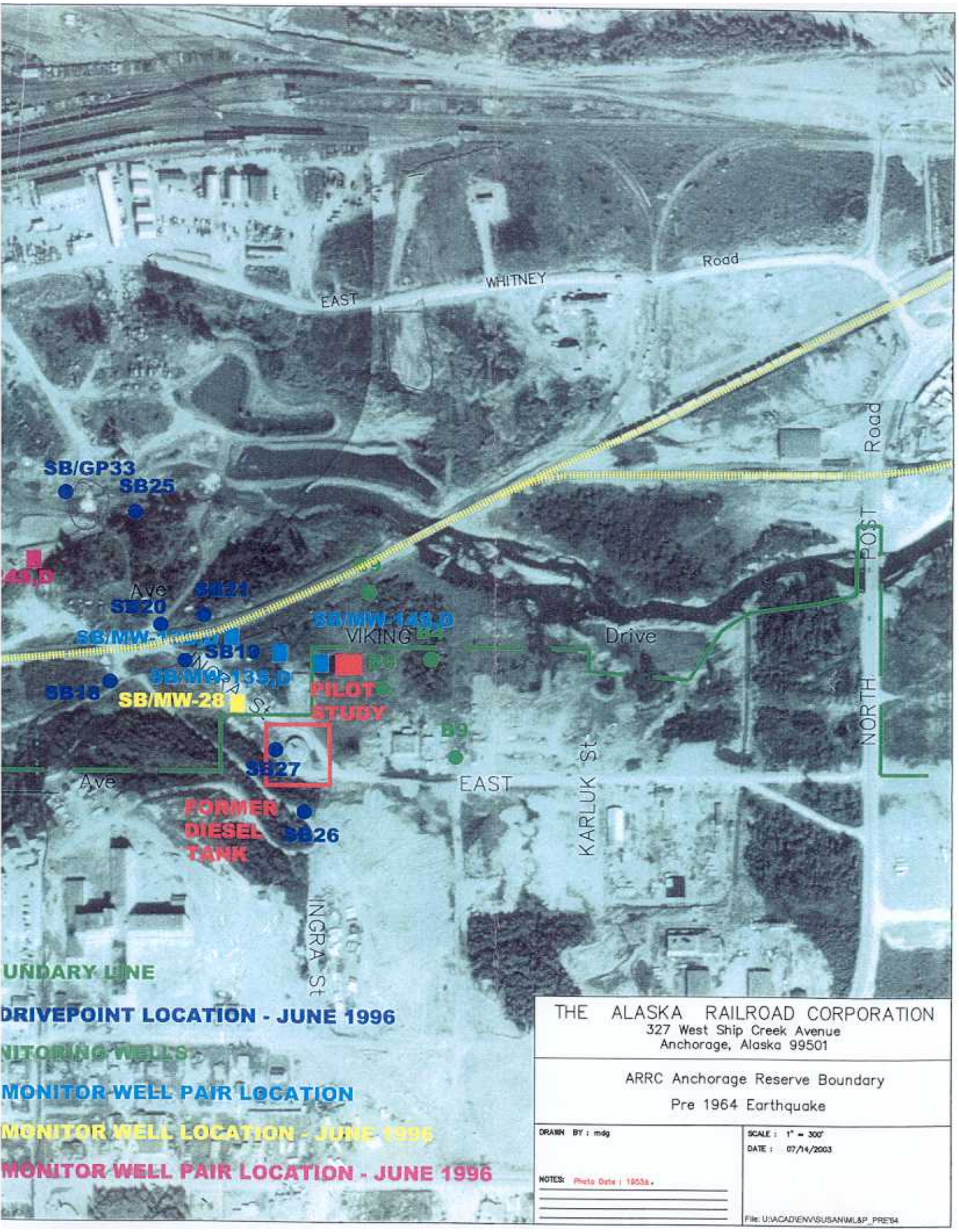
This site is actively managed by Chevron and ADEC.

5. **Site 6.49 – 101 West Whitney Road – Wrightway Auto Carriers**
   - See attached Hart Crowser letter report dated June 26, 2003. There is a well on the property set in the deeper confined aquifer.

6. **Site 6.56 – 2132 Railroad Avenue – Steel Fabricators**
   - See attached Hart Crowser letter report dated June 26, 2003. The well on this property is set into the deeper confined aquifer.

7. **Site 6.94 – 2301 Spar Avenue – Alaska Soil Recycling (ASR)**
   - Letter from Tellus, Ltd. to CleanSoils Alaska, Inc., dated October 28, 1997
   - Letter from Tellus, Ltd. To CleanSoils Alaska, Inc., dated February 20, 1998
   - Letter from CleanSoils Alaska, Inc. to ADEC dated April 10, 1998, documenting that "all required work associated with NOV #9721023806 has been completed and documentation has been submitted to ADEC, with the exception of continued quarterly monitoring of groundwater well-MW-4."
   - Letter from ASR to ADEC dated April 17, 1997, explaining that ASR acquired the

Road
WHITNEY
SB29
SB/GB30
SB31
SB/GP32
SB/MW-24S
W SHIP CREEK Ave EAST
SHIP CREEK Ave EAST
SB34
N CORDOVA
ARRC Freight House
ARRC BOUNDARY LINE
Ave
EAST
1st
AREA
Sloped
Sloped
Barrow St
Cordova Street
A Street
ARRC BOUN
SOIL BORING/DRI
EXISTING MONIT
SOIL BORING/MO
SOIL BORING/MO
SOIL BORING/MO



THE ALASKA RAILROAD CORPORATION
327 West Ship Creek Avenue
Anchorage, Alaska 99501

ARRC Anchorage Reserve Boundary

Pre 1964 Earthquake

DRAWN BY : mdg

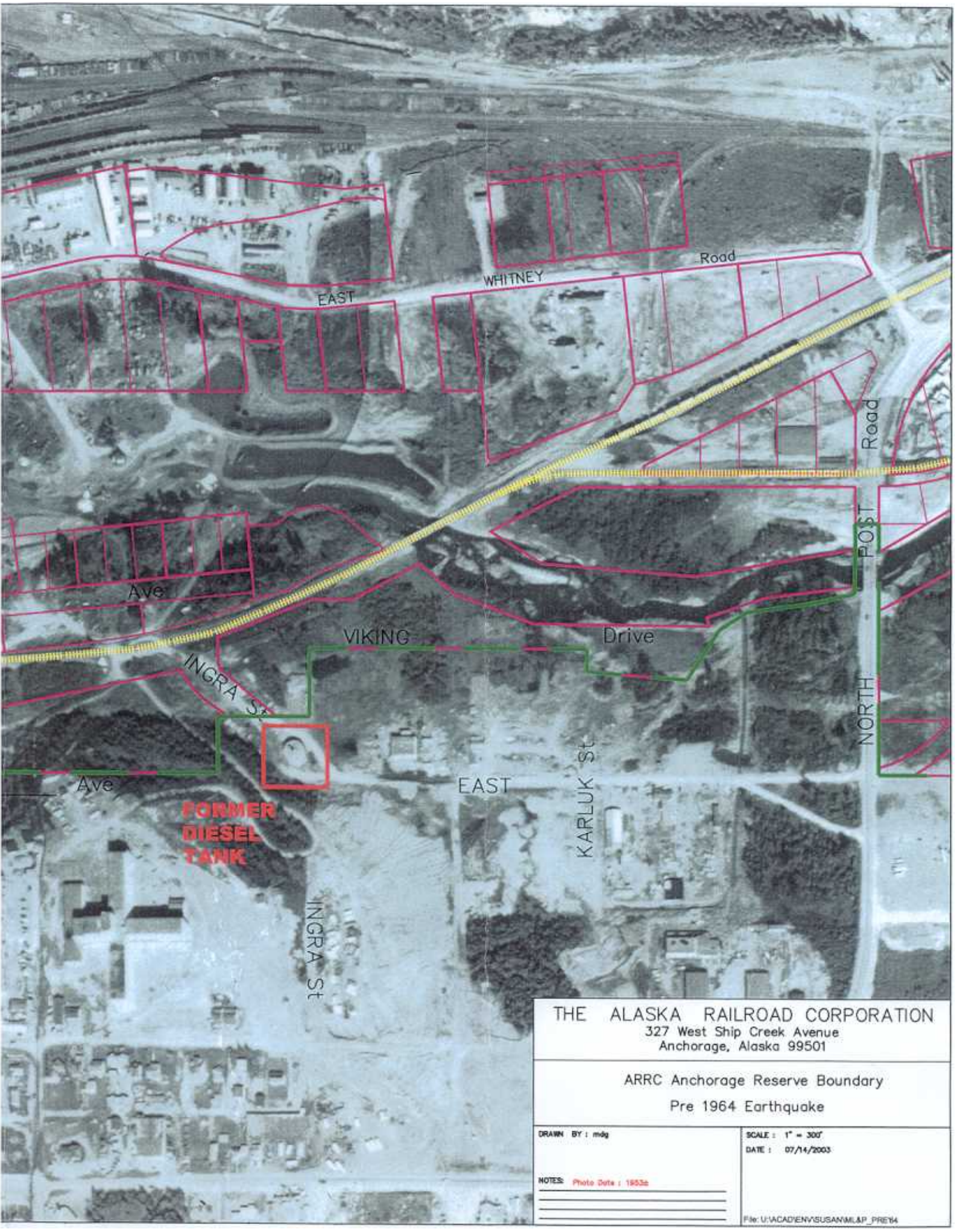
SCALE : 1" = 300'

DATE : 07/14/2003

NOTES: Photo Date : 1953±.

File: U:\ACAD\ENV\SUSAN\ML&P_PRE'64

Road
WHITNEY
Parcel B
Parcel C
W SHIP CREEK Ave
EAST
SHIP CREEK Ave
EAST
CORDOVA
ARRC Freight House
Ave
EAST
1st
AREA
Sloped
Sloped
Barrow St
Cordova Street
A Street



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Anchorage, Alaska 99501

ARRC Anchorage Reserve Boundary

Pre 1964 Earthquake

DRAWN BY : mdg

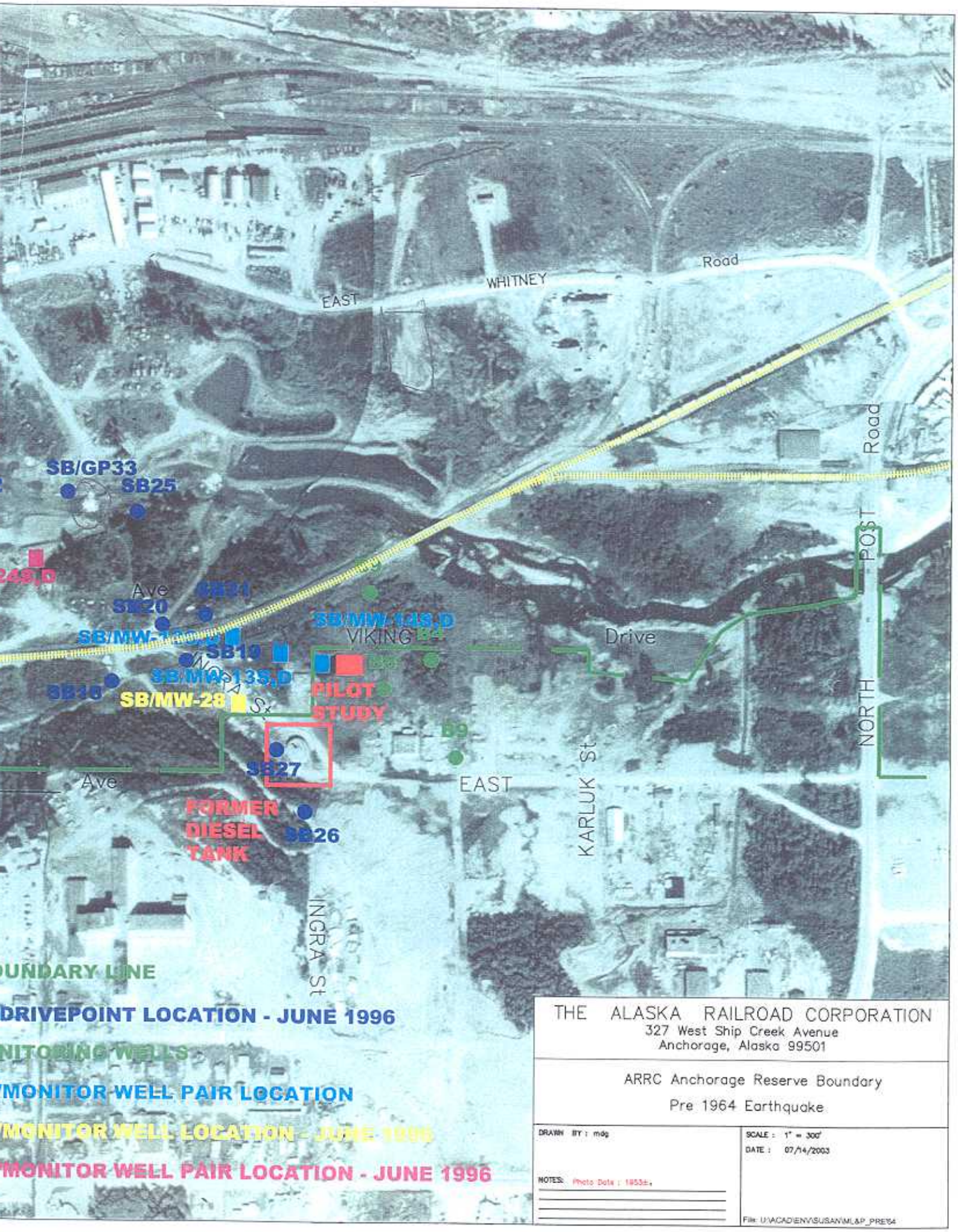
SCALE : 1" = 300'

DATE : 07/14/2003

NOTES: Photo Date : 1953c

File: U:\ACAD\ENV\SUSAN\ML&P_PRE'64

Road
WHITNEY
SB29
SB/GB30
SB31
SB/GP32
SB/MW-24
W SHIP CREEK Ave EAST
SHIP CREEK Ave EAST
SB34
N CORDOVA
ARRC Freight House
ARRC BOUNDARY LINE
Ave
EAST
1st
AREA
Sloped
Sloped
Barrow St.
Cordova Street
A Street
ARRC BOUND
SOIL BORING/DRIV
EXISTING MONITO
SOIL BORING/MON
SOIL BORING/MON
SOIL BORING/MON



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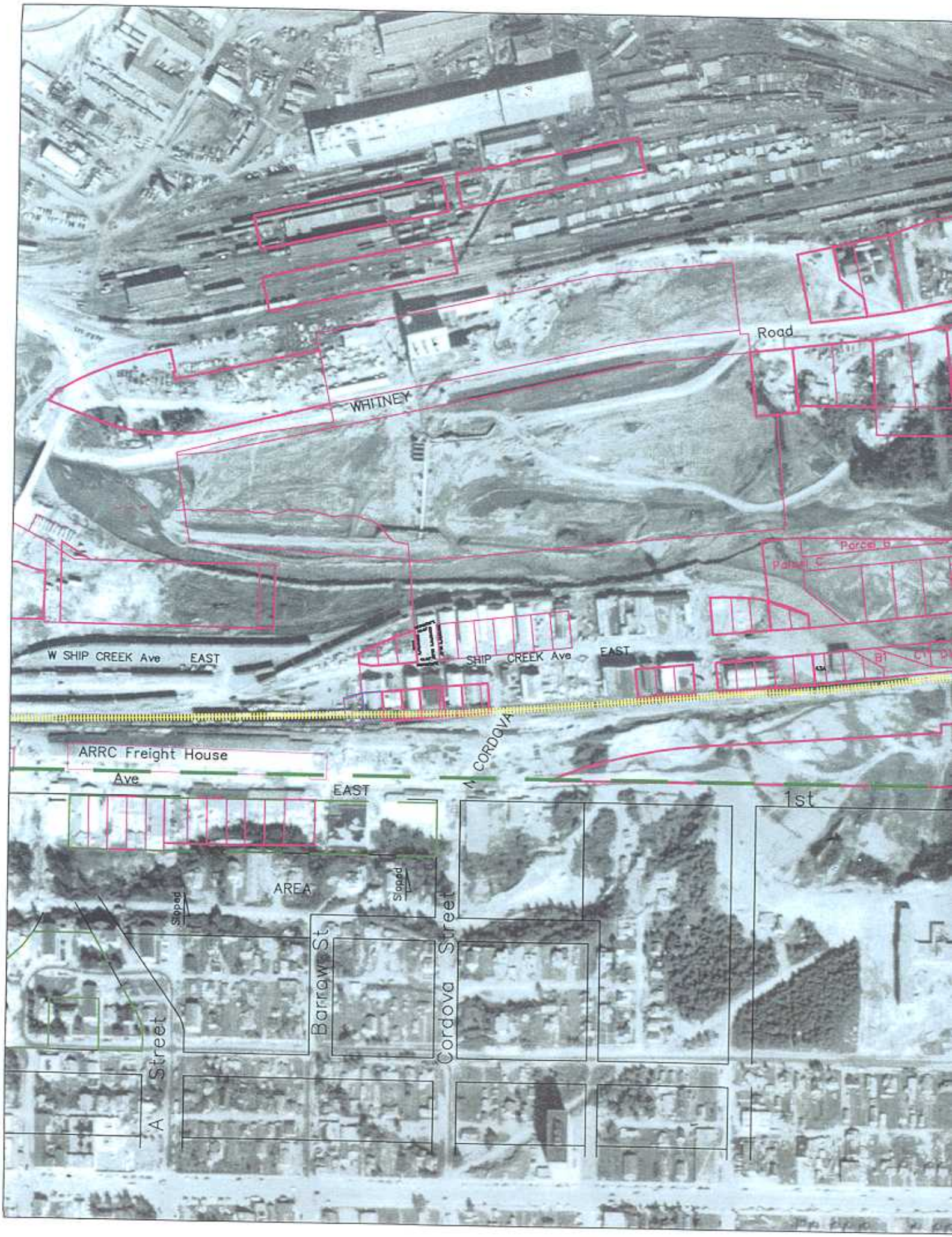
Road
WHITNEY
Parcel B
Parcel C
W SHIP CREEK Ave
EAST
SHIP CREEK Ave
EAST
B1
C1
CORDOVA
ARRC Freight House
Ave
EAST
1st
AREA
Sloped
Sloped
Barrow St
Cordova Street
A Street

LP-024
Prescott Equipment

Copy Prescott Eq. Site #24

P-024-008

STATE OF ALASKA

FRANK H. MURKOWSKI, GOVERNOR

DEPT. OF ENVIRONMENTAL CONSERVATION
DIVISION OF SPILL PREVENTION AND RESPONSE
CONTAMINATED SITES PROGRAM
http://www.state.ak.us/dec/

555 Cordova Street
Anchorage, AK 99501-2617
Phone: (907) 269-7527
Fax: (907) 269-7649

FAXED ARR 265-2550

June 9, 2003

Mary Jane Hendrickson
Prescott Equipment Company, Inc.
Box 10-0658
Anchorage, AK 99510

Subject: No Further Remedial Action Planned/Institutional Control Status (NFRAP/IC) Alternative Cleanup Levels for site soils, and Record of Decision for the Prescott Equipment site, 1924 Post Road, Anchorage (ADEC File No. CS57.14)

Dear Mr. Henrickson:
The Department has reviewed the subject file, including the "Prescott Equipment Co.; 1924 Post Rd. Final Report and Closure Request" dated December 4, 2002 and the "Sampling Workplan for Mercury" approved on August 13, 2002 and implemented on August 20, 2002. These documents summarize current site conditions, past investigations, and removal actions at the approximately three-quarter acre Alaska Railroad owned site, which has been leased by Prescott since 1988 for a metals salvage operation. Contaminants at the site that exceeded site cleanup levels before cleanup included petroleum hydrocarbons, lead, mercury and PCBs.

Based on the information provided by your consultant, AlaskChem, contaminants in site soils have been cleaned up to the Department's method two residential cleanup levels with the exceptions of diesel range organics (DRO) and benzene, which have been cleaned up to approved method three alternative cleanup levels. The Department grants No Further Remedial Action Planned/Institutional Control Status for this site, to take effect upon receipt of written concurrence by the property owner, with the following conditions and comments:

1) Written landowner concurrence required: As a condition of receiving NFRAP/IC status, the Alaska Railroad Corporation (ARRC), as property owner, must provide written concurrence that the alternative cleanup levels and other conditions of this letter are acceptable.

2) Approval of alternative cleanup levels for petroleum hydrocarbon compounds: The Department approves alternative cleanup levels in soils of up to ten times the petroleum hydrocarbon levels for the method two residential migration to groundwater levels found in Tables B1 and B2 of the Department's Oil and Hazardous Substances Pollution Control Regulations (18 AAC 75, Articles 3 and 9). The approved alternative cleanup level for DRO is 2500 mg/kg and for benzene is 0.2 mg/kg. Both DRO and benzene concentrations remaining in site soils are below the approved alternate cleanup levels.

3) Institutional controls for petroleum hydrocarbon contamination in soils: The alternative cleanup levels for the soil are specific to this site and, if soils are to be removed from the site, they are subject to 18 AAC 75.325(i) written approval by the ADEC. The NFRAP status will

remain on the Department's Contaminated Sites database as an institutional control to notify future lessees, property users or owners that the removal of soil from the site requires prior written Department approval.

5) Decommissioning of groundwater monitoring wells: Groundwater monitoring wells at site have been decommissioned by AlasChem with Department approval.

In summary, with written landowner concurrence as noted in item (1) above, ADEC will consider site status to be "no further remedial action planned status with institutional controls" and will be indicated as such on the ADEC Contaminated Sites Database. The NFRAP status indicates that the Department does not require additional cleanup action because the petroleum hydrocarbons remaining at the site do not pose a risk to human health or the environment. If site conditions should change, and evidence indicates that the alternative cleanup levels are not protective of human health or the environment, additional investigative and/or corrective action work may be necessary.

Please call me at 269-7527 if you have questions or comments.

Sincerely,

Eileen Olson

Eileen Olson
Environmental Specialist

cc: Ralph Hulbert, P.E., AlaskChem Engineering (fax 746-4586)
Karen Morrissey, Alaska Railroad Corporation
Bob Glascott, CSP

THE ALASKA RAILROAD CORPORATION
327 West Ship Creek Avenue
Anchorage, Alaska 99501

ARRC Anchorage Reserve Boundary

Pre 1964 Earthquake

DRAWN BY : mdg

SCALE : 1" = 300'

DATE : 07/14/2003

NOTES: Photo Date : 1953±

File: U:\ACAD\ENV\SUSAN\ML&P_PRE'64

Appendix E

Ship Creek Focused Summary

Ship Creek Focused Summary

This Appendix summarizes key information on the Ship Creek exposure area. It is not intended as an exhaustive discussion on Ship Creek fluvial geomorphology, historical changes, habitat, or environmental conditions. The appendix focuses on three aspects of the site background for Ship Creek:

1. Changes in the course of Ship Creek since 1950
2. Identity of outfalls identified for Ship Creek
3. Summary of basic habitat and analytical data for reaches identified in Ship Creek

Ship Creek Description

Ship Creek originates at Ship Lake at the 2,700 foot level of the Chugach Mountains. The creek flows north then west for 25 miles to its mouth in Knik Arm of Cook Inlet. The watershed drains 117 square miles. The watershed includes alpine meadow, perennial snow fields, forest, wetlands and urban areas. There is virtually no glacial input, and the creek flows clear except during spring runoff or heavy rains.

The upper 15 miles of the creek (above Glenn Highway) are pristine and largely untouched by development. The lower 10 miles has been affected by development. For eight miles Ship Creek flows through Fort Richardson and Elmendorf Air Force Base. Three dams are located on this reach of Ship Creek. Ship Creek receives storm water inflow from the military facilities and from suburban development in this reach.

At Reeve Blvd. Ship Creek enters the ARRC site area. The reaches between Reeve Blvd. and the mouth of the creek have been channelized, and the land use is industrial. Storm water from the ARRC railyard, commercial and industrial areas, and urban areas of the Municipality of Anchorage enters Ship Creek from multiple outfalls in these reaches. A dam constructed in 1953 is located ½ mile from the mouth. The dam functioned to provide a cooling water source for Knik Arm Power (KAPP). The power plant is no longer active. The dam divides Ship Creek into a lower reach which is influenced by tides and upper reaches which are freshwater. A fish ladder allows passage of the annual runs of salmon.

The entire Ship Creek valley at one time consisted of riparian wetlands and woodlands. Encroachment from building of the railroad in the 1920's and subsequent industrial development since the 1950's has resulted in a large decline in riparian habitat. Most of the riparian habitat present today appears to be of recent origin, as the creek itself has been channelized and modified.

Changes in Ship Creek Channel

Figure E-1 shows changes in the course of Ship Creek since 1953, based on aerial photographs of the Ship Creek from 1953, 1961, 1989, and 2003. No aerial photographs prior to 1953 were found. Ship Creek, which originally meandered along the entire valley floor, was partially channelized along the southern bluff sometime in

the 1920's to allow development of the railroad (Anchorage Historical Society). By 1953 the alignment of the creek was roughly similar to that seen today.

Around 1953 the KAPP dam and power plant was under construction. Ship Creek was dewatered at this time. The alignment of the creek included several areas that today are low-lying marshy riparian areas. The sand and gravel bars located above the future KAPP dam were still bare due to tidal effects. The reach between what is now Reeve Blvd. and Sitka St. was still largely undeveloped.

Additional photos are available from 1961 and 1989. These show that the main channel of Ship Creek has shifted repeatedly within the low-lying areas where industrial fill has not encroached upon the creek. This indicates that areas that currently are riparian dry land fairly recently may have been within the main channel of the creek.

Outfalls to Ship Creek

Numerous stormwater outfalls to Ship Creek exist within the site. Figure E-2 shows the identified subdrainage basins managed by ARRC or MOA and their discharge points to Ship Creek. The outfalls include stormwater from the ARRC railyard, ARRC lease properties, and non-site related industrial, commercial and residential areas. Several of the smaller subdrainage basins do not have a collector system and discharge to the creek by surface runoff. The ongoing Preliminary Ship Creek Habitat Survey will further describe and identify the outfalls and their source. Information on subdrainages and outfalls was acquired from "*Anchorage Watershed Catalog Series: Ship Creek – Draft*", MOA Document No. APg03003, October 2003.

Ship Creek Reaches

For the purpose of this review, Ship Creek was divided into four reaches within the site. The division into reaches is based on physical characteristics and determined by best professional judgment.

1. Reach A (from Reeve Blvd. to Sitka St.). This is the most "natural" reach remaining. Riparian areas are present, and the stream has some room to meander and to form riffle-run successions.

2. Reach B (from Sitka St. to the upper railroad bridge). This reach is heavily channelized, and riparian habitat is minimal.

3. Reach C (from upper railroad bridge to KAPP dam). This reach is less channelized, and some riparian habitat is present. The riparian habitat appears recent, however, and indications of historical activities, such as excavated ponds, are present.

4. Reach D (below KAPP dam). This reach is influenced by daily tidal flux, and is estuarine in nature. The reach is channelized and virtually no riparian habitat is present.

The Ship Creek Habitat Survey additionally evaluated conditions in the reach upstream of the ARRC property, from Reeve Blvd. upstream to the Elemendorf Hatchery dam. Data for this reach will be considered background or reference data for future evaluations.

Environmental Conditions

The attached tables summarize environmental information available for Ship Creek. Additional information on habitat and current conditions for Ship Creek will be presented in the Ship Creek Habitat Survey.

Ship Creek Summary of Data

RETEC Site No.	**Ship Creek**		
Site Name	**General or Non-specific Information**		
Impacts and History identified in Literature Survey (general site description) (please refer to Hart Crowser 2004a for further information)	1. Mayor's Task Force Reconnaissance visit in 1997 (descriptive) 2. Several reports on fisheries, water flows, and general planning for Anchorage area.		
Impacts and History identified in Literature Survey (water quality) (please refer to Hart Crowser 2004a for further information)	1. ADEC 1989: Non-point source evaluation of Ship Creek (narrative) 2. ADNR and UAA (1997): Phase I report on common pollutants in Ship Creek. Phase II: Twelve sediment and water samples collected between hatchery and KAPP dam in 1997. Depositional sediment collected. Low level PAH above KAPP dam, high Pb, Cu, Zn below OU-5 drain (?) at Yakatat St. 3. USGS (2001) SPMD sample from Ship Creek. No PAHs but some OCP. Concludes no bioaccumulation. 4. CH2M Hill report (1996): background metals for Ship Creek 5. USGS (2002): extensive sediment sampling in Cook Inlet.		
Impacts and History identified in Literature Survey (biological investigations) (please refer to Hart Crowser 2004a for further information)	1. National Bioaccumulation Study (1985-87) includes fish tissue samples 2. USGS (2000): tissue concentrations (and sediment) in Cook Inlet. Only metals high. 3. Macroinvertebrate studies: seven conducted. (a) Major et al 2001 at Post Rd. "Poor" rating (b) Milner and Oswood, two stations upstream of site. "Good" rating. (c) Love 1999. Glenn (upstream), hatchery (upstream), Post Rd. and KAPP dam. "Very good" at Glenn, "Good" at Post, "Good to poor" at KAPP (d) Cushing et al. 1994: Five upstream (incl. hatchery), Post Rd. No differences between stations. (e) CH2M Hill: Post Rd sample. "Poor" rating. (f) USGS 2001: Two stations, both upstream. No rating.		
Summary of Analytical Data Results (note: data set includes surface water samples from LP-003 drainage ditch to Cook Inlet and samples from Ship Creek backwaters and drain ditches)	ANALYTE	SEDIMENT	SURFACE / STORM WATER
	Petroleum Hydrocarbons	Detected 12-2200 mg/kg (14/33)	Detected 10-1100 ug/L (24/64)
	BTEX:	Detected 1.8 - 46 ug/kg (8/74), Toluene	Detected 0.01-40 ug/L (49-87)
	PAHs:	Detected 0.9 - 650 ug/kg (11/111)	None detected. Some RLs exceed.
	SVOCs:	Detected 4.2- 24000 ug/kg (5/24)	1 detected 35 ug/L (2/42). Some RLs exc.
	VOCs:	Detected 3.3-130 ug/kg (8/63)	Detected 0.4-23 ug/L (13/32)
	PCBs:	Detected 46-2500 ug/kg (6/53)	None detected. Some RLs exceed.
	Metals:	Detected 0.05-22000 mg/kg (47/49)	Detected 0.05 ug/L - 27000 mg/L (54/54)
	Inorganics:	Not analyzed	Detected
	Dioxins and Furans:	Detected 1.3-13 ng/kg (4/4)	Not analyzed
	Pesticides:	Detected 1.9-4.4 ug/kg (3/32)	None detected. Some RLs exceed.

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Ship Creek Summary of Data

RETEC Site No.	Ship Creek
Site Name	**Reach A (from Reeve Blvd. to Sitka Street)**
Site Overview (narrative)	Ship Creek in this reach flows in broad meanders and has a succession of riffles and runs. Some straightening and channeling is present, but compared to other reaches the creek is fairly unconstrained. Riparian areas are fairly well developed, and include marshland and wooded bottomlands, particularly on the north shore. Habitat appears good, and salmon are frequent. Construction of a public bike trail along the south shore is ongoing. Construction has affected part of the remaining riparian habitat in this area.
Historical Survey (please refer to Figure 1 for further information)	Historical photos indicate this reach was relatively undeveloped until 1950. Industrial development on both banks since have encroached on the floodplain, but the Ship Creek bed has moved considerably over the last 50 years, as seen in Figure E-1. There is still some room for limited creek bed migration. The historic footprint of Ship Creek in this area includes some riparian habitat.
Impacts and History identified in Literature Survey (please refer to Hart Crowser 2004a for further information)	1. Standard Steel site (closed CERCLA site): A sediment and water sample collected 100 ft upstream and downstream of site in 1985 (PCBs found downstream). Additional sediment samples collected 1987, unknonw location (PCBs still present, although conflicting reports exist). A USFWS fish tissue sample exists for this area. The 1994 RAO report mentions additional toxicity and chemistry samples that may be available. 2. Elmendorf AFB: Quarterly sampling of upstream water and downstream of "identified inflows" in 1995-96. Metals and some VOCs reported. Most or all of these samples are upstream of the site. OU-5 RI/FS (1999) reports TCE in "beaver pond" station SC-3, this beaver pond apparently before reaching Ship Creek. **MOST OR ALL OF THESE SAMPLES UPSTREAM OF SITE**. 3. Fort Richardson: Cooling ponds at base and outfalls to Ship Creek evaluated in Source Evaluaton for OU-D. PCBs and DRO high, some metals. T**HESE SAMPLES ARE UPSTREAM OF SITE**
Stormwater Issues (please refer to Figure 2 for further information)	The following stormwater drainages have been identified in this reach: 1. Elmendorf OU5 discharge 2. MOA zones 830 and 832 (mostly diffuse flow from lease properties on north side. No major outfalls) 3. MOA zone 834 outfall (storm sewer, drains mostly off-site areas on south side) 4. MOA zone 835 (storm sewer, drains mostly off-site industrial areas on south side)
Ongoing Investigations	The Preliminary Habitat Survey inspected this area and will report on current conditions and suspected sources
Other Suspected Impacts	1. The reach is bordered by several sites of concern for the RI: the former Standard Steel NPL site, Emulsion Products (LP-099), and Pruhs Corporation (LP-083) with potential environmental issues. 2. Several smaller leaseholders along Railroad Ave and Post Rd. use COPCs and may have affected adjacent riparian areas.
Summary of Analytical Data Results	3. Sediment sample locations and 7 surface/storm water sample locations available in this reach.
Investigation and/or Cleanup Actions Conducted	None
Future Investigation or Cleanup Actions	Further data needs to be determined following results of Interim Action.

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Ship Creek Summary of Data

RETEC Site No.	Ship Creek
Site Name	**Reach B (from Sitka St. to upper railroad bridge)**
Site Overview (narrative)	Ship Creek in this reach is strongly channelized and straightened. The creek flow is dominated by runs, and riffles are rare. Riprapped banks are common, and riparian habitat is limited to a few point bars and relict channels. Habitat in this reach is limited. Construction of a public bike trail along the south shore is ongoing. Construction has affected part of the remaining riparian habitat in this area.
Historical Survey (please refer to Figure 1 for further information)	Historical photos indicate this reach has changed little in recent decades. The channel had its current conformation already in 1950. Additional industrial development on the north bank has encroached on the limited amounts of riparian habitat, as seen in Figure E-1. The channel is fully constrained.
Impacts and History identified in Literature Survey (please refer to Hart Crowser 2004a for further information)	
EPA Level of Concern	not ranked
Stormwater Issues (please refer to Figure 2 for further information)	The following stormwater drainages have been identified in this reach: 1. MOA zone 833 (storm sewer, drains mostly off-site industrial areas on south side). 2. MOA zone 831 (diffuse flow from lease properties on north side. No major outfalls) 3. MOA zone 810 (diffuse flow from relict channel and riparian strip on north side) 4. MOA zone 827 (diffuse flow from riparian strip on north side) 5. ARRC zone E (storm sewer drains to ditch along railroad track and thence to creek. Zone E drains eastern portion of railyard, and may include stormwater and seepage from north boundary area)
Ongoing Investigations	The Preliminary Habitat Survey inspected this area and will report on current conditions and suspected sources
Other Suspected Impacts	1. The reach is bordered by two leases of concern for the RI: Post Road Co-tenancy (LP-127) and HW Alaska (LP-134) 2. Additional discharges to the ditch along the railroad may be present.
Summary of Analytical Data Results	2 sediment and 2 surface / storm water sample locations available for this reach
Investigation and/or Cleanup Actions Conducted	None
Future Investigation or Cleanup Actions	Further data needs to be determined following results of Interim Action

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Ship Creek Summary of Data

RETEC Site No.	Ship Creek
Site Name	**Reach C (from upper railroad bridge. to KAPP dam)**
Site Overview (narrative)	Ship Creek in this reach is channelized and straightened, but somewhat less so than Reach B primarily due to extensive flats on north side. The creek flow is dominated by runs, but some riffles are present. Riprapped banks are common, particularly on the south shore. The north shore presents wider riparian zones, as well as a retention pond of unknown origin. Riparian habitat is young but well-developed. Remains of structures, pumping stations, and other debris is frequent in this reach. The KAPP dam ensures that the conditions remain freshwater dominated. Some deposition (primarily sand) behind dam is evident. The wider area behind the dam is shallow.
Historical Survey (please refer to Figure 1 for further information)	Historical photos indicate that this reach has seen significant modifications. In 1950, as part of the construction of the KAPP dam, Ship Creek was dewatered and most of the current riparian areas consisted of tidal flats that appear to have been graded at that time. Since that time, the main channel of Ship Creek has moved from the north side, adjacent to the KAPP pond to the south side, leaving multiple relict channels. In addition, two artificial ponds were present in 1950 south of Whitney Road. One of those remains unchanged today, and is a receiving water for stormwater discharges. These ponds are of uncertain origin. As part of the building of KAPP, a large cooling water pond was constructed along lower Whitney Road. This pond also remains.
Impacts and History identified in Literature Survey (please refer to Hart Crowser 2004a for further information)	1. Arctic Cooperage site (LP-991): ditch reported from site to Ship Creek in Phase II Site Assessment. Four sediment and two water samples collected in ditch in 1996 "upgradient" and "downgradient" of site. Organics and metals detected. 2. KAPP site (LP-120): In 1986 one water sample collected above dam for ARRC SI. For 1999 Brownfield report five sediment and surface water from cooling pond (metals, PCBs, PAHs exceeded screening levels in sediment). Two samples of surface water and sediment collected "above KAPP dam" (Mn and Ni exceeded). In 2002 SI Report, six sediment cores in area behind dam planned for dredging. Ni and Cu exceeded.
EPA Level of Concern	not ranked
Stormwater Issues (please refer to Figure 2 for further information)	The following stormwater drainages have been identified in this reach: 1. MOA zone 828 (diffuse flow from riparian zone on north side). 2.ARRC zone A / MOA zone 829 (storm sewer to pond on north side, which in turn drains to the creek. This zone drains sections of the railyard, and also is connected with storm drainage from MOA zone 829 from residential areas on the north bluffs. This system may also capture seepage along the north bluffs). 4. MOA zone 813 (diffuse flow from riparian areas on north side) 5. MOA zone 826 (storm sewer, drains industrial areas, including some lease properties, as well as some downtown commercial areas) [Hart Crowser Site 13] 6. MOA zone 812 (2 storm sewers, drain industrial areas, primarily lease properties, on south side) [Hart Crowser Sites 14 and 16]
Ongoing Investigations	The Preliminary Habitat Survey inspected this area and will report on current conditions and suspected sources

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Ship Creek Summary of Data

Other Suspected Impacts	This reach includes several areas of concern: 1. Historical discharges and structures in and near the ponds of uncertain origin on the north side. Debris and remains of old structures are present in the riparian area. 2. Potential releases from or via lease properties along Whitney Road, including Arctic Cooperage (LP-991), Criterion General (LP-078), Deans Automotive (LP-069), Alaska Sheet Metal (LP-131), and others. 3. Potential releases from KAPP (LP-120) to Ship Creek or cooling pond 4. Accumulation of impacted sediment washed down from upstream sources and deposited in depositional area behind the KAPP dam
Summary of Analytical Data Results	17 sediment sample locations and 14 surface / storm water sample locations available for this reach
Investigation and/or Cleanup Actions Conducted	None
Future Investigation or Cleanup Actions	Further data needs to be determined following results of Interim Action

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Ship Creek Summary of Data

RETEC Site No.	Ship Creek
Site Name	**Reach D (from KAPP dam to mouth)**
Site Overview (narrative)	Below KAPP dam Ship Creek is a tidal influenced stream emerging via estuary-like conditions to Knik Arm. This reach is tidal. The stream bed covers the entire width between the built-up banks. High tides fill the channel up to the dam. The channel bed is cobble and gravel in the upper part, giving way to marine mudflats in the lower portions. Below the constriction caused by the railroad bridge culvert, Ship Creek runs in a deeply incised gravel-bottom channel through the tidal mudflats. The deep incision is the result of the very high tidal range (>30 ft), resulting in strong erosive action during low tide. All banks are steep and riprapped. There is virtually no riparian habitat, except two small stormwater detention swales on the south side. The mudlflats are unvegetated, except for a small saltmarsh area of C Street. This reach sees heavy use by recreational fishermen.
Historical Survey (please refer to Figure 1 for further information)	Historical photos show that this reach has changed little since 1950and the construction of KAPP dam. There may have been some encroachment of the mudlflats in the outer harbor area by port facilities.
Impacts and History identified in Literature Survey (please refer to Hart Crowser 2004a for further information)	1. KAPP investigations (LP-120). Two water samples collected from storm drains for ARRC SI (1986). Ship Creek Brownfields Assessment Report (1999) reported PCB in storm sewer system following transformer spill. ADEC noted "sheen" on Ship Creek. Three water and sediment samples from mouth of sewers collected. Metals, PAHs, PCBs detected above screening level. 2. ARRC Railyard investigations: Sediment and water samples collected from storm sewer outfalls for ARRC SI (1986). PCBs, 1,2DCE, and benzene reported. A 1986 report by Shannon and Wilson on oil seeps also may exist.
EPA Level of Concern	not ranked
Stormwater Issues (please refer to Figure 2 for further information)	The following stormwater and other drainages have been identified in this reach: 1. MOA zone 811 (storm sewer, drains lease holds and downtown industrial and commercial areas on south side) [Hart Crowser Site 18] 2. MOA zone 809 (storm sewer, drains downtown commerical areas) [Hart Crowser Site 22] 3. MOA zone 890 (storm sewer, drains industrial areas, including some lease properties, as well as some downtown commercial areas) [Hart Crowser Site 23] 4. MOA zone 808 (2 storm sewers, drain industrial and residential areas on south side [Hart Crowser Site 25] 5. KAPP pond drain (sewer located adjacent ot dam on north side, thought to drain KAPP holding pond) [Hart Crowser Site 17A] 6. ARRC zone B (also MOA zone 825) (drains large portion of western railyard, as well as receiving flwo from seeps along North Bluffs and residential areas on north bluffs. This drain system apparetnly also captures stormflow along Whitney Road. There are interconnections with old drains on KAPP property. This sewer located next to KAPP pond drain. [Hart Crowser Site 17] 7. MOA/ADOT storm sewer (drains highway bridge and right-of-way on north side of Ship Creek) [Hart Crowser Sit 8. ARRC zone A (drains western portions of railyard) 9. ARRC zone C (also MOA zone 814) (drains railyard areas west of highway and east of C street, appears to be i 10. Two small swales located on north shore east and west of ARRC building. These swales are marshy and capt

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Ship Creek Summary of Data

Ongoing Investigations	The Preliminary Habitat Survey inspected this area and will report on current conditions and suspected sources
Other Suspected Impacts	This reach includes several areas of concern: 1. Discharge from KAPP pond. 2. Seepage from north bank adjacent to Wrightway Auto Carriers (LP-049) [Hart Crowser Site 19]
Summary of Analytical Data Results	7 sediment and 4 surface / storm water sample locations available for this reach
Investigation and/or Cleanup Actions Conducted	None
Future Investigation or Cleanup Actions	Further data needs to be determined following results of Interim Action

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LEGEND

- 1950 DRY OR DIVERSION CHANNEL DURING CONSTRUCTION
- 1950 STREAM CHANNEL
- 1961 STREAM CHANNEL
- 1989 STREAM CHANNEL
- 2003 STREAM CHANNEL
- ARRC PROPERTY BOUNDARY

RIPARIAN AREAS
(TAKEN FROM AUGUST 2003 PHOTO)

- VEGETATED AREAS
- MUDFLATS/TIDAL ZONE
- UNVEGETATED BANKS OR SAND/GRAVEL BAR

0 200 400 Feet

N

NOTES:
1. Basemap provided by Municipality of Anchorage, August, 2004.
2. Lot ID # referenced from MOA parcel file, provided as part of the basemap dataset.
3. Property boundary digitized from ARRC CADD basemap August 12, 2004.
4. Channel morphology alignment was derived from georeferenced aerial photos of varying quality, not from ortho-rectified aerial photography. Alignments are approximate.

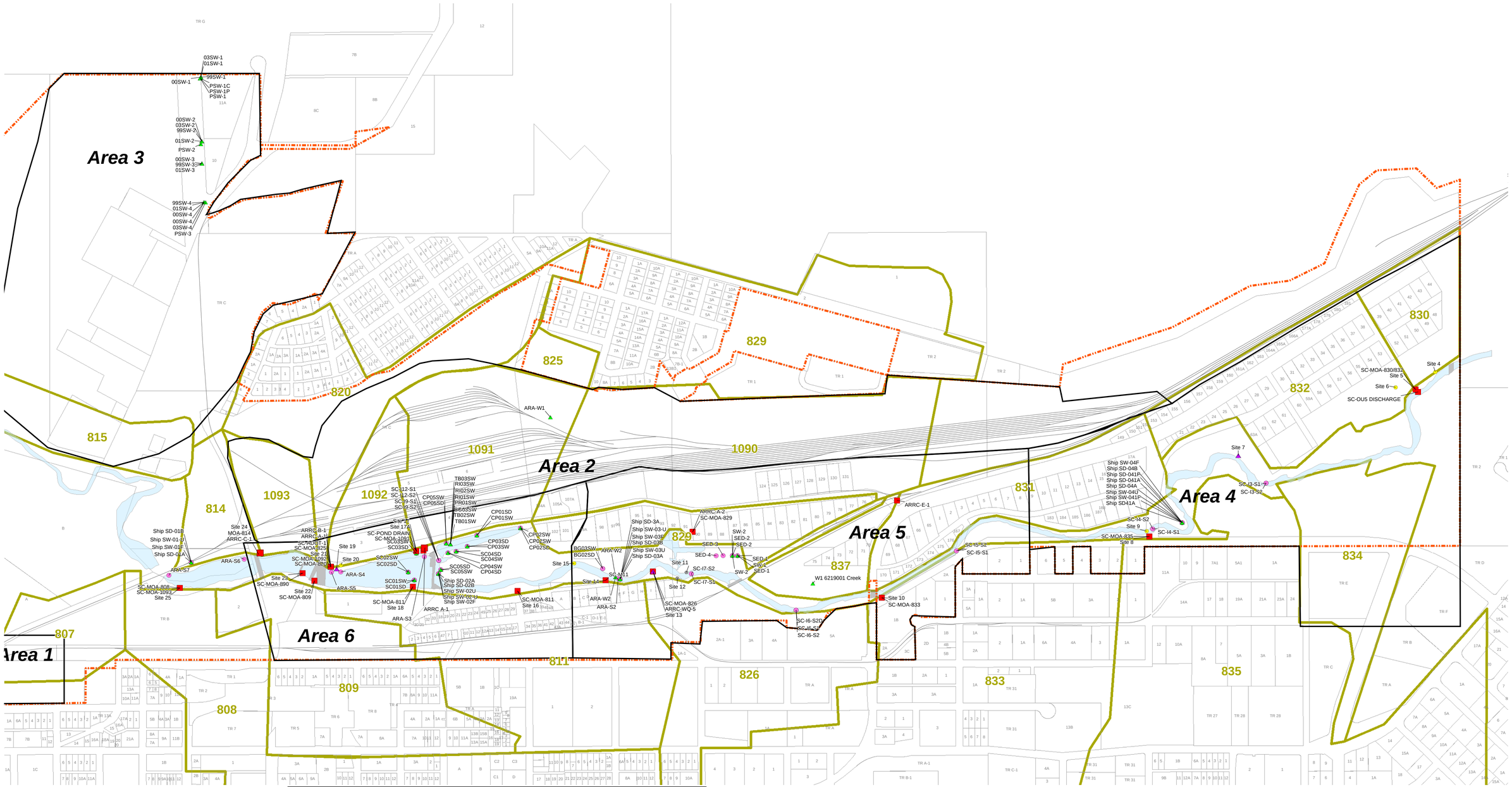
RETEC

REMEDIAL INVESTIGATION
ALASKA RAILROAD, ANCHORAGE, ALASKA

SHIP CREEK:
HISTORICAL CHANNEL MORPHOLOGY

Date: 10/14/04 | Dwn By: KBL/ftc | File Name:

FIGURE E-1



LEGEND

- STORMWATER OUTFALL (ID WITH "SC-MOA" IS MUNICIPALITY OF ANCHORAGE STORMWATER OUTFALL. ID WITH "ARRC" IS AN ARRC STORMWATER OUTFALL.)
- GROUNDWATER SEEP LOCATIONS
- SURFACE WATER SAMPLING LOCATION
- SEDIMENT SAMPLING LOCATION
- OTHER PIPE IDENTIFIED IN APRIL 2004 SURVEY
- STRUCTURE
- ARRC PROPERTY BOUNDARY
- PROPOSED STUDY AREA
- 826 MOA SUBDRAINAGE DESIGNATION

NOTES:
1. Basemap provided by Municipality of Anchorage, August, 2004.
2. Lot ID # referenced from MOA parcel file, provided as part of the basemap dataset.
3. Property boundary digitized from ARRC CADD basemap August 12, 2004.

0 200 400 800 Feet

N

RETEC

REMEDIAL INVESTIGATION ALASKA RAILROAD, ANCHORAGE, ALASKA			SHIP CREEK: SAMPLE LOCATIONS AND STORM WATER OUTFALLS
Date: 10/14/04	Dwn By: KBL/ftc	File Name:	FIGURE E-2

Appendix F

Summary of Analytical Data Detected Above Screening Levels

(Revised February 1, 2005)

Table F-1 Summary of Detected Soil Concentrations Exceeding Region IX Industrial PRGs
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	end_depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	USEPA Region IX Industrial Soil PRG mg/kg
LP991	Arctic Cooperage	Area 5	10/25/2000	EX3		Subsurface	1,1,2-Trichloroethane	79-00-5	4.5	1.61
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	5	Subsurface	1,2,4-Trimethylbenzene	95-63-6	180	170
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	1,2,4-Trimethylbenzene	95-63-6	220	170
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	1,2,4-Trimethylbenzene	95-63-6	230	170
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	1,2,4-Trimethylbenzene	95-63-6	280	170
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	8	Subsurface	1,2,4-Trimethylbenzene	95-63-6	360	170
LP991	Arctic Cooperage	Area 5	10/19/2000	EX3		Subsurface	1,2-Dichloropropane	78-87-5	1.3	0.742
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	1,3,5-Trimethylbenzene	108-67-8	73	70
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	1,3,5-Trimethylbenzene	108-67-8	77	70
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	1,3,5-Trimethylbenzene	108-67-8	89	70
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	8	Subsurface	1,3,5-Trimethylbenzene	108-67-8	110	70
LP991	Arctic Cooperage	Area 5	5/30/1996	SB4	2.5	Subsurface	Aluminum	7429-90-5	124000	100000
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Antimony	7440-36-0	480	410
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL7		Subsurface	Aroclor 1221	11104-28-2	1.13	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL3		Subsurface	Aroclor 1221	11104-28-2	2.1	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL13		Subsurface	Aroclor 1221	11104-28-2	19	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL14		Subsurface	Aroclor 1221	11104-28-2	24	0.74
LP024	Prescott Equipment	Area 4	8/12/1998	B3	7	Subsurface	Aroclor 1232	11141-16-5	0.819	0.74
LP024	Prescott Equipment	Area 4	8/12/1998	SS2	0.5	Surface	Aroclor 1232	11141-16-5	0.848	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL4		Subsurface	Aroclor 1242	53469-21-9	1.14	0.74
LP127	Post Road Company - Tenancy	Area 5	8/25/1992	SS22		Subsurface	Aroclor 1242	53469-21-9	1.7	0.74
LP127	Post Road Company - Tenancy	Area 5	8/25/1992	SS22		Subsurface	Aroclor 1242	53469-21-9	1.8	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL5		Subsurface	Aroclor 1242	53469-21-9	1.83	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL2		Subsurface	Aroclor 1242	53469-21-9	3	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL7		Subsurface	Aroclor 1242	53469-21-9	4.15	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL1		Subsurface	Aroclor 1242	53469-21-9	4.53	0.74
LP127	Post Road Company - Tenancy	Area 5	8/25/1992	SS22		Subsurface	Aroclor 1242	53469-21-9	4.9	0.74
LP127	Post Road Company - Tenancy	Area 5	8/28/1992	SS27		Subsurface	Aroclor 1242	53469-21-9	5	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL3		Subsurface	Aroclor 1242	53469-21-9	6.26	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL13		Subsurface	Aroclor 1242	53469-21-9	84	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL14		Subsurface	Aroclor 1242	53469-21-9	109	0.74
LP127	Post Road Company - Tenancy	Area 5	8/25/1992	SS24		Subsurface	Aroclor 1254	11097-69-1	0.89	0.74
LP127	Post Road Company - Tenancy	Area 5	8/25/1992	SS21		Subsurface	Aroclor 1254	11097-69-1	2	0.74
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Aroclor 1260	11096-82-5	0.76	0.74
LP022	Municipal Light & Power	Area 5	6/14/1994	THCOMP		Subsurface	Aroclor 1260	11096-82-5	0.84	0.74
RY065	Railyard	Area 2	6/23/1987	PIT1	3	Subsurface	Aroclor 1260	11096-82-5	0.86	0.74
LP127	Post Road Company - Tenancy	Area 5	8/28/1992	SS22		Subsurface	Aroclor 1260	11096-82-5	1	0.74
LP127	Post Road Company - Tenancy	Area 5	8/25/1992	SS24		Subsurface	Aroclor 1260	11096-82-5	1.8	0.74
LP022	Municipal Light & Power	Area 5	9/26/1991	MW3	6	Subsurface	Aroclor 1260	11096-82-5	2.5	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL4		Subsurface	Aroclor 1260	11096-82-5	2.71	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL5		Subsurface	Aroclor 1260	11096-82-5	2.73	0.74
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Aroclor 1260	11096-82-5	3.04	0.74
LP127	Post Road Company - Tenancy	Area 5	10/6/1991	SS3	0.5	Surface	Aroclor 1260	11096-82-5	3.29	0.74
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Aroclor 1260	11096-82-5	3.82	0.74
LP127	Post Road Company - Tenancy	Area 5	10/6/1991	SS1	0.5	Surface	Aroclor 1260	11096-82-5	3.86	0.74
LP127	Post Road Company - Tenancy	Area 5	8/25/1992	SS21		Subsurface	Aroclor 1260	11096-82-5	6.1	0.74
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Aroclor 1260	11096-82-5	6.4	0.74
LP022	Municipal Light & Power	Area 5	9/27/1991	B2	12	Subsurface	Aroclor 1260	11096-82-5	7.1	0.74

Table F-1 Summary of Detected Soil Concentrations Exceeding Region IX Industrial PRGs
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	end_depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	USEPA Region IX Industrial Soil PRG mg/kg
LP022	Municipal Light & Power	Area 5	9/27/1991	B5	0.5	Surface	Aroclor 1260	11096-82-5	7.9	0.74
LP022	Municipal Light & Power	Area 5	9/30/1991	B7	4	Subsurface	Aroclor 1260	11096-82-5	8	0.74
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Aroclor 1260	11096-82-5	8.04	0.74
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Aroclor 1260	11096-82-5	9.01	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL2		Subsurface	Aroclor 1260	11096-82-5	10.8	0.74
LP022	Municipal Light & Power	Area 5	9/26/1991	B4	0.5	Surface	Aroclor 1260	11096-82-5	11	0.74
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Aroclor 1260	11096-82-5	13.9	0.74
LP127	Post Road Company - Tenancy	Area 5	8/28/1992	SS27		Subsurface	Aroclor 1260	11096-82-5	16	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL8		Subsurface	Aroclor 1260	11096-82-5	16.2	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL5		Subsurface	Aroclor 1260	11096-82-5	16.8	0.74
LP127	Post Road Company - Tenancy	Area 5	8/25/1992	SS22		Subsurface	Aroclor 1260	11096-82-5	18	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL7		Subsurface	Aroclor 1260	11096-82-5	19.1	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL3		Subsurface	Aroclor 1260	11096-82-5	20.7	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL10		Subsurface	Aroclor 1260	11096-82-5	22.1	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL1		Subsurface	Aroclor 1260	11096-82-5	22.8	0.74
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Aroclor 1260	11096-82-5	25.6	0.74
LP127	Post Road Company - Tenancy	Area 5	8/25/1992	SS22		Subsurface	Aroclor 1260	11096-82-5	27	0.74
LP022	Municipal Light & Power	Area 5	9/26/1991	MW3	0.5	Surface	Aroclor 1260	11096-82-5	30	0.74
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Aroclor 1260	11096-82-5	32.9	0.74
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Aroclor 1260	11096-82-5	34	0.74
LP022	Municipal Light & Power	Area 5	9/30/1991	B7	0.5	Surface	Aroclor 1260	11096-82-5	73	0.74
RY065	Railyard	Area 2	10/30/1985	PIT1		Subsurface	Aroclor 1260	11096-82-5	102	0.74
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Aroclor 1260	11096-82-5	130	0.74
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Aroclor 1260	11096-82-5	138	0.74
RY065	Railyard	Area 2	6/23/1987	PIT1	5	Subsurface	Aroclor 1260	11096-82-5	181	0.74
RY065	Railyard	Area 2	6/23/1987	PIT1	6	Subsurface	Aroclor 1260	11096-82-5	273	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL13		Subsurface	Aroclor 1260	11096-82-5	1051	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL14		Subsurface	Aroclor 1260	11096-82-5	1342	0.74
RY065	Railyard	Area 2	10/30/1985	PIT1		Subsurface	Aroclor 1260	11096-82-5	19023	0.74
RY065	Railyard	Area 2	10/30/1985	PIT1		Subsurface	Aroclor 1260	11096-82-5	120000	0.74
RY065	Railyard	Area 2	10/30/1985	PIT1		Subsurface	Aroclor 1260	11096-82-5	165000	0.74
LP120	KAPP	Area 6	4/4/2000	B2	7	Subsurface	Arsenic	7440-38-2	1.62	1.6
LP003	Flint Hills	Area 3	2/25/1992	B1	4	Subsurface	Arsenic	7440-38-2	2	1.6
LP003	Flint Hills	Area 3	2/26/1992	B18	4	Subsurface	Arsenic	7440-38-2	2	1.6
LP003	Flint Hills	Area 3	2/25/1992	19A	4	Subsurface	Arsenic	7440-38-2	2	1.6
LP127	Post Road Company - Tenancy	Area 5	8/31/1999	B2	11.5	Subsurface	Arsenic	7440-38-2	2.34	1.6
LP120	KAPP	Area 6	4/4/2000	B5	3	Subsurface	Arsenic	7440-38-2	2.37	1.6
LP127	Post Road Company - Tenancy	Area 5	8/31/1999	B3	4	Subsurface	Arsenic	7440-38-2	2.4	1.6
LP127	Post Road Company - Tenancy	Area 5	8/31/1999	B4	11.5	Subsurface	Arsenic	7440-38-2	2.65	1.6
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Arsenic	7440-38-2	2.77	1.6
RY065	Railyard	Area 2	9/16/2003	EX9		Subsurface	Arsenic	7440-38-2	2.89	1.6
RY065	Railyard	Area 2	9/16/2003	EX6		Subsurface	Arsenic	7440-38-2	2.97	1.6
LP003	Flint Hills	Area 3	2/26/1992	B17	4	Subsurface	Arsenic	7440-38-2	3	1.6
RY065	Railyard	Area 2	9/16/2003	EX10		Subsurface	Arsenic	7440-38-2	3.19	1.6
RY065	Railyard	Area 2	9/16/2003	EX4		Subsurface	Arsenic	7440-38-2	3.19	1.6
RY065	Railyard	Area 2	9/16/2003	SP5		Subsurface	Arsenic	7440-38-2	3.37	1.6
LP065	Princess Tours	Area 2	6/1/1992	4MW	16.5	Subsurface	Arsenic	7440-38-2	3.8	1.6
RY065	Railyard	Area 2	9/16/2003	SP8		Subsurface	Arsenic	7440-38-2	3.9	1.6

Table F-1 Summary of Detected Soil Concentrations Exceeding Region IX Industrial PRGs
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	end_depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	USEPA Region IX Industrial Soil PRG mg/kg
RY065	Railyard	Area 2	9/16/2003	SP6		Subsurface	Arsenic	7440-38-2	3.96	1.6
LP991	Arctic Cooperage	Area 5	12/16/1997	BL5	46	Subsurface	Arsenic	7440-38-2	4	1.6
LP991	Arctic Cooperage	Area 5	12/16/1997	BL4	12	Subsurface	Arsenic	7440-38-2	4	1.6
LP991	Arctic Cooperage	Area 5	12/15/1997	BL3	22	Subsurface	Arsenic	7440-38-2	4	1.6
LP003	Flint Hills	Area 3	2/25/1992	B7	4	Subsurface	Arsenic	7440-38-2	4	1.6
LP003	Flint Hills	Area 3	2/26/1992	B30	4	Subsurface	Arsenic	7440-38-2	4	1.6
RY065	Railyard	Area 2	6/1/1992	MW2	12	Subsurface	Arsenic	7440-38-2	4	1.6
RY065	Railyard	Area 2	11/22/1994	PIT1	1.5	Subsurface	Arsenic	7440-38-2	4	1.6
RY065	Railyard	Area 2	11/22/1994	PIT1	1.5	Subsurface	Arsenic	7440-38-2	4	1.6
LP065	Princess Tours	Area 2	5/29/1992	MW1	11.5	Subsurface	Arsenic	7440-38-2	4.1	1.6
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Arsenic	7440-38-2	4.14	1.6
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Arsenic	7440-38-2	4.15	1.6
RY065	Railyard	Area 2	9/16/2003	USTEX1		Subsurface	Arsenic	7440-38-2	4.15	1.6
LP131	Alaska Sheetmetal	Area 6	12/6/1995	S9	0.6	Subsurface	Arsenic	7440-38-2	4.2	1.6
LP137	Laidlaw Transit	Area 5	10/10/1990	12BS		Subsurface	Arsenic	7440-38-2	4.2	1.6
LP120	KAPP	Area 6	10/7/1998	145M		Subsurface	Arsenic	7440-38-2	4.29	1.6
LP131	Alaska Sheetmetal	Area 6	12/6/1995	S8	0.6	Subsurface	Arsenic	7440-38-2	4.3	1.6
LP125	L&J Cabs - CPR Automotive	Area 4	9/22/1989	15	8	Subsurface	Arsenic	7440-38-2	4.33	1.6
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Arsenic	7440-38-2	4.39	1.6
RY065	Railyard	Area 2	9/16/2003	EX8		Subsurface	Arsenic	7440-38-2	4.41	1.6
RY065	Railyard	Area 2	9/16/2003	USTEX1		Subsurface	Arsenic	7440-38-2	4.48	1.6
LP065	Princess Tours	Area 2	6/1/1992	4MW	11.5	Subsurface	Arsenic	7440-38-2	4.5	1.6
LP120	KAPP	Area 6	10/5/1998	145T		Subsurface	Arsenic	7440-38-2	4.6	1.6
LP065	Princess Tours	Area 2	5/29/1992	SB1	16.5	Subsurface	Arsenic	7440-38-2	4.6	1.6
LP065	Princess Tours	Area 2	5/6/1994	SB6	4	Subsurface	Arsenic	7440-38-2	4.6	1.6
LP024	Prescott Equipment	Area 4	6/11/1999	PECI29	2	Subsurface	Arsenic	7440-38-2	4.67	1.6
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Arsenic	7440-38-2	4.69	1.6
RY065	Railyard	Area 2	9/16/2003	SP2		Subsurface	Arsenic	7440-38-2	4.76	1.6
LP003	Flint Hills	Area 3	10/6/1995	B20	4	Subsurface	Arsenic	7440-38-2	4.8	1.6
RY065	Railyard	Area 2	9/16/2003	SP7		Subsurface	Arsenic	7440-38-2	4.84	1.6
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Arsenic	7440-38-2	4.89	1.6
LP065	Princess Tours	Area 2	5/29/1992	MW1	16.5	Subsurface	Arsenic	7440-38-2	4.9	1.6
LP065	Princess Tours	Area 2	5/6/1994	SB7	5.5	Subsurface	Arsenic	7440-38-2	4.9	1.6
LP120	KAPP	Area 6	1/1/1998	145G	1	Subsurface	Arsenic	7440-38-2	4.91	1.6
LP120	KAPP	Area 6	10/5/1998	145U		Subsurface	Arsenic	7440-38-2	4.91	1.6
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Arsenic	7440-38-2	4.92	1.6
LP991	Arctic Cooperage	Area 5	5/28/1996	MW1	10	Subsurface	Arsenic	7440-38-2	5	1.6
LP991	Arctic Cooperage	Area 5	5/30/1996	SB11	2.5	Subsurface	Arsenic	7440-38-2	5	1.6
LP991	Arctic Cooperage	Area 5	5/30/1996	SB11	5	Subsurface	Arsenic	7440-38-2	5	1.6
LP991	Arctic Cooperage	Area 5	5/28/1996	MW1	5	Subsurface	Arsenic	7440-38-2	5	1.6
LP991	Arctic Cooperage	Area 5	5/28/1996	SB7	15	Subsurface	Arsenic	7440-38-2	5	1.6
LP991	Arctic Cooperage	Area 5	5/29/1996	SB8	12.5	Subsurface	Arsenic	7440-38-2	5	1.6
LP991	Arctic Cooperage	Area 5	5/29/1996	SB8	2.5	Subsurface	Arsenic	7440-38-2	5	1.6
LP991	Arctic Cooperage	Area 5	6/4/1996	SS12		Subsurface	Arsenic	7440-38-2	5	1.6
LP991	Arctic Cooperage	Area 5	8/30/1996	SS12		Subsurface	Arsenic	7440-38-2	5	1.6
LP991	Arctic Cooperage	Area 5	6/4/1996	SS13		Subsurface	Arsenic	7440-38-2	5	1.6
LP991	Arctic Cooperage	Area 5	8/30/1996	SS13		Subsurface	Arsenic	7440-38-2	5	1.6
LP991	Arctic Cooperage	Area 5	5/28/1996	SB2	2.5	Subsurface	Arsenic	7440-38-2	5	1.6

Table F-1 Summary of Detected Soil Concentrations Exceeding Region IX Industrial PRGs
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	end_depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	USEPA Region IX Industrial Soil PRG mg/kg
LP991	Arctic Cooperage	Area 5	5/29/1996	SB3	5	Subsurface	Arsenic	7440-38-2	5	1.6
LP991	Arctic Cooperage	Area 5	12/15/1997	BL3	40	Subsurface	Arsenic	7440-38-2	5	1.6
LP991	Arctic Cooperage	Area 5	12/12/1997	BL1	47	Subsurface	Arsenic	7440-38-2	5	1.6
LP991	Arctic Cooperage	Area 5	12/15/1997	BL2	42	Subsurface	Arsenic	7440-38-2	5	1.6
LP003	Flint Hills	Area 3	10/5/1995	B23	1	Subsurface	Arsenic	7440-38-2	5	1.6
LP065	Princess Tours	Area 2	5/6/1994	SB6	3.5	Subsurface	Arsenic	7440-38-2	5	1.6
RY065	Railyard	Area 2	11/22/1994	PIT1	1.5	Subsurface	Arsenic	7440-38-2	5	1.6
LP065	Princess Tours	Area 2	2/7/2001	4MW	4	Subsurface	Arsenic	7440-38-2	5.03	1.6
RY065	Railyard	Area 2	9/16/2003	SP3		Subsurface	Arsenic	7440-38-2	5.07	1.6
LP120	KAPP	Area 6	10/6/1998	145K		Subsurface	Arsenic	7440-38-2	5.1	1.6
LP065	Princess Tours	Area 2	5/30/1992	SB3	11.5	Subsurface	Arsenic	7440-38-2	5.1	1.6
RY065	Railyard	Area 2	10/2/2003	USTEX11		Subsurface	Arsenic	7440-38-2	5.18	1.6
RY065	Railyard	Area 2	2/7/2001	9MW	6.5	Subsurface	Arsenic	7440-38-2	5.19	1.6
LP003	Flint Hills	Area 3	10/6/1995	B18	14	Subsurface	Arsenic	7440-38-2	5.2	1.6
LP024	Prescott Equipment	Area 4	6/11/1999	I51	2	Subsurface	Arsenic	7440-38-2	5.2	1.6
LP024	Prescott Equipment	Area 4	6/11/1999	PEC	2	Subsurface	Arsenic	7440-38-2	5.2	1.6
LP065	Princess Tours	Area 2	6/3/1992	GR1		Subsurface	Arsenic	7440-38-2	5.3	1.6
RY065	Railyard	Area 2	9/16/2003	SP4		Subsurface	Arsenic	7440-38-2	5.34	1.6
RY065	Railyard	Area 2	9/16/2003	EX5		Subsurface	Arsenic	7440-38-2	5.38	1.6
LP131	Alaska Sheetmetal	Area 6	12/6/1995	S4	2	Subsurface	Arsenic	7440-38-2	5.4	1.6
RY065	Railyard	Area 2	9/16/2003	EX3		Subsurface	Arsenic	7440-38-2	5.44	1.6
RY065	Railyard	Area 2	2/7/2001	10MW	4.2	Subsurface	Arsenic	7440-38-2	5.6	1.6
RY065	Railyard	Area 2	9/16/2003	USTSP1		Subsurface	Arsenic	7440-38-2	5.72	1.6
LP024	Prescott Equipment	Area 4	6/11/1999	PECI45	2	Subsurface	Arsenic	7440-38-2	5.74	1.6
RY065	Railyard	Area 2	10/2/2003	USTEX11		Subsurface	Arsenic	7440-38-2	5.77	1.6
RY065	Railyard	Area 2	10/2/2003	EX13		Subsurface	Arsenic	7440-38-2	5.86	1.6
LP003	Flint Hills	Area 3	10/10/1995	B5A	6.5	Subsurface	Arsenic	7440-38-2	5.9	1.6
LP003	Flint Hills	Area 3	10/5/1995	B22	9	Subsurface	Arsenic	7440-38-2	5.9	1.6
LP991	Arctic Cooperage	Area 5	5/30/1996	SB10	2.5	Subsurface	Arsenic	7440-38-2	6	1.6
LP991	Arctic Cooperage	Area 5	5/30/1996	MW3	5	Subsurface	Arsenic	7440-38-2	6	1.6
LP991	Arctic Cooperage	Area 5	5/30/1996	SB10	5	Subsurface	Arsenic	7440-38-2	6	1.6
LP991	Arctic Cooperage	Area 5	5/28/1996	SB7	12.5	Subsurface	Arsenic	7440-38-2	6	1.6
LP991	Arctic Cooperage	Area 5	5/30/1996	SB4	2.5	Subsurface	Arsenic	7440-38-2	6	1.6
LP991	Arctic Cooperage	Area 5	12/16/1997	BL5	18	Subsurface	Arsenic	7440-38-2	6	1.6
LP991	Arctic Cooperage	Area 5	12/16/1997	BL4	48	Subsurface	Arsenic	7440-38-2	6	1.6
LP991	Arctic Cooperage	Area 5	12/15/1997	BL2	28	Subsurface	Arsenic	7440-38-2	6	1.6
LP003	Flint Hills	Area 3	2/26/1992	B8	4	Subsurface	Arsenic	7440-38-2	6	1.6
LP003	Flint Hills	Area 3	2/26/1992	B20	4	Subsurface	Arsenic	7440-38-2	6	1.6
LP003	Flint Hills	Area 3	10/10/1995	B5	6.5	Subsurface	Arsenic	7440-38-2	6	1.6
RY065	Railyard	Area 2	2/7/2001	8MW	6.5	Subsurface	Arsenic	7440-38-2	6.19	1.6
LP120	KAPP	Area 6	10/6/1998	145J		Subsurface	Arsenic	7440-38-2	6.2	1.6
LP120	KAPP	Area 6	10/6/1998	145P		Subsurface	Arsenic	7440-38-2	6.21	1.6
LP120	KAPP	Area 6	10/7/1998	145I		Subsurface	Arsenic	7440-38-2	6.26	1.6
LP065	Princess Tours	Area 2	6/2/1992	SB5	21.5	Subsurface	Arsenic	7440-38-2	6.3	1.6
LP137	Laidlaw Transit	Area 5	10/10/1990	11BN		Subsurface	Arsenic	7440-38-2	6.4	1.6
LP065	Princess Tours	Area 2	6/1/1992	MW3	11.5	Subsurface	Arsenic	7440-38-2	6.4	1.6
LP065	Princess Tours	Area 2	5/6/1994	SB7	2	Subsurface	Arsenic	7440-38-2	6.4	1.6
LP120	KAPP	Area 6	10/6/1998	145R		Subsurface	Arsenic	7440-38-2	6.66	1.6

Table F-1 Summary of Detected Soil Concentrations Exceeding Region IX Industrial PRGs
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	end_depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	USEPA Region IX Industrial Soil PRG mg/kg
LP120	KAPP	Area 6	10/7/1998	145I		Subsurface	Arsenic	7440-38-2	6.68	1.6
LP137	Laidlaw Transit	Area 5	10/11/1990	MT		Subsurface	Arsenic	7440-38-2	6.7	1.6
LP120	KAPP	Area 6	10/6/1998	145R		Subsurface	Arsenic	7440-38-2	6.87	1.6
LP991	Arctic Cooperage	Area 5	5/29/1996	SB9	2.5	Subsurface	Arsenic	7440-38-2	7	1.6
LP991	Arctic Cooperage	Area 5	5/29/1996	SB6	2.5	Subsurface	Arsenic	7440-38-2	7	1.6
LP991	Arctic Cooperage	Area 5	12/12/1997	BL1	28	Subsurface	Arsenic	7440-38-2	7	1.6
LP991	Arctic Cooperage	Area 5	6/4/1996	SS4		Subsurface	Arsenic	7440-38-2	7	1.6
LP991	Arctic Cooperage	Area 5	6/4/1996	SS3		Subsurface	Arsenic	7440-38-2	7	1.6
LP991	Arctic Cooperage	Area 5	6/4/1996	SS5		Subsurface	Arsenic	7440-38-2	7	1.6
LP024	Prescott Equipment	Area 4	8/12/1998	B2	7	Subsurface	Arsenic	7440-38-2	7.01	1.6
LP127	Post Road Company - Tenancy	Area 5	8/31/1999	B1	16.5	Subsurface	Arsenic	7440-38-2	7.09	1.6
RY065	Railyard	Area 2	2/7/2001	6MW	4	Subsurface	Arsenic	7440-38-2	7.17	1.6
LP065	Princess Tours	Area 2	5/6/1994	SB6	6	Subsurface	Arsenic	7440-38-2	7.2	1.6
LP120	KAPP	Area 6	10/7/1998	145L		Subsurface	Arsenic	7440-38-2	7.23	1.6
LP120	KAPP	Area 6	10/5/1998	145F		Subsurface	Arsenic	7440-38-2	7.329	1.6
LP120	KAPP	Area 6	10/5/1998	145N		Subsurface	Arsenic	7440-38-2	7.35	1.6
LP120	KAPP	Area 6	10/7/1998	145I		Subsurface	Arsenic	7440-38-2	7.42	1.6
LP120	KAPP	Area 6	10/7/1998	145X	1	Subsurface	Arsenic	7440-38-2	7.57	1.6
LP120	KAPP	Area 6	10/5/1998	145N		Subsurface	Arsenic	7440-38-2	7.72	1.6
RY065	Railyard	Area 2	9/16/2003	EX7		Subsurface	Arsenic	7440-38-2	7.75	1.6
LP120	KAPP	Area 6	10/5/1998	145F		Subsurface	Arsenic	7440-38-2	7.77	1.6
LP003	Flint Hills	Area 3	10/6/1995	B14	4	Subsurface	Arsenic	7440-38-2	7.8	1.6
LP120	KAPP	Area 6	10/5/1998	145U		Subsurface	Arsenic	7440-38-2	7.96	1.6
LP991	Arctic Cooperage	Area 5	5/30/1996	MW3	2.5	Subsurface	Arsenic	7440-38-2	8	1.6
LP991	Arctic Cooperage	Area 5	5/29/1996	SB6	8	Subsurface	Arsenic	7440-38-2	8	1.6
LP991	Arctic Cooperage	Area 5	6/4/1996	SS2		Subsurface	Arsenic	7440-38-2	8	1.6
LP991	Arctic Cooperage	Area 5	5/29/1996	SB3	2.5	Subsurface	Arsenic	7440-38-2	8	1.6
LP991	Arctic Cooperage	Area 5	5/29/1996	SB5	2.5	Subsurface	Arsenic	7440-38-2	8	1.6
LP003	Flint Hills	Area 3	3/31/1992	14MW	9	Subsurface	Arsenic	7440-38-2	8	1.6
LP120	KAPP	Area 6	10/5/1998	145U		Subsurface	Arsenic	7440-38-2	8.05	1.6
LP120	KAPP	Area 6	10/7/1998	145L		Subsurface	Arsenic	7440-38-2	8.2	1.6
LP137	Laidlaw Transit	Area 5	10/10/1990	08E		Subsurface	Arsenic	7440-38-2	8.3	1.6
LP120	KAPP	Area 6	10/7/1998	145Q		Subsurface	Arsenic	7440-38-2	8.31	1.6
LP003	Flint Hills	Area 3	10/11/1995	MW2	4	Subsurface	Arsenic	7440-38-2	8.4	1.6
LP120	KAPP	Area 6	10/5/1998	145S		Subsurface	Arsenic	7440-38-2	8.5	1.6
LP120	KAPP	Area 6	10/5/1998	145V		Subsurface	Arsenic	7440-38-2	8.5	1.6
LP991	Arctic Cooperage	Area 5	6/4/1996	SS1		Subsurface	Arsenic	7440-38-2	9	1.6
LP991	Arctic Cooperage	Area 5	5/29/1996	SB5	7.5	Subsurface	Arsenic	7440-38-2	9	1.6
LP991	Arctic Cooperage	Area 5	6/4/1996	SS6		Subsurface	Arsenic	7440-38-2	9	1.6
LP003	Flint Hills	Area 3	3/26/1992	B13	6	Subsurface	Arsenic	7440-38-2	9	1.6
LP120	KAPP	Area 6	10/7/1998	145Q		Subsurface	Arsenic	7440-38-2	9.06	1.6
LP120	KAPP	Area 6	10/7/1998	145L		Subsurface	Arsenic	7440-38-2	9.08	1.6
LP120	KAPP	Area 6	10/6/1998	145P		Subsurface	Arsenic	7440-38-2	9.16	1.6
LP120	KAPP	Area 6	10/5/1998	145N		Subsurface	Arsenic	7440-38-2	9.47	1.6
LP065	Princess Tours	Area 2	5/6/1994	SB7	3	Subsurface	Arsenic	7440-38-2	9.5	1.6
RY065	Railyard	Area 2	2/7/2001	7MW	14.5	Subsurface	Arsenic	7440-38-2	9.58	1.6
LP120	KAPP	Area 6	10/7/1998	145M		Subsurface	Arsenic	7440-38-2	9.72	1.6
LP024	Prescott Equipment	Area 4	8/12/1998	B1	7	Subsurface	Arsenic	7440-38-2	9.72	1.6

Table F-1 Summary of Detected Soil Concentrations Exceeding Region IX Industrial PRGs
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	end_depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	USEPA Region IX Industrial Soil PRG mg/kg
LP120	KAPP	Area 6	10/7/1998	145Q		Subsurface	Arsenic	7440-38-2	9.92	1.6
LP003	Flint Hills	Area 3	2/26/1992	B28	4	Subsurface	Arsenic	7440-38-2	10	1.6
LP003	Flint Hills	Area 3	3/31/1992	15MW	6	Subsurface	Arsenic	7440-38-2	10	1.6
LP120	KAPP	Area 6	10/7/1998	145M		Subsurface	Arsenic	7440-38-2	10.1	1.6
LP120	KAPP	Area 6	10/6/1998	145R		Subsurface	Arsenic	7440-38-2	10.4	1.6
LP024	Prescott Equipment	Area 4	6/11/1999	PECI28	2	Subsurface	Arsenic	7440-38-2	10.5	1.6
RY065	Railyard	Area 2	10/8/1998	PIT1		Subsurface	Arsenic	7440-38-2	10.5	1.6
LP991	Arctic Cooperage	Area 5	5/28/1996	SB2	5	Subsurface	Arsenic	7440-38-2	11	1.6
LP003	Flint Hills	Area 3	10/9/1995	B9	4	Subsurface	Arsenic	7440-38-2	11	1.6
LP120	KAPP	Area 6	10/6/1998	145P		Subsurface	Arsenic	7440-38-2	11	1.6
LP003	Flint Hills	Area 3	10/9/1995	B13	14.5	Subsurface	Arsenic	7440-38-2	12	1.6
LP003	Flint Hills	Area 3	10/10/1995	B17	4	Subsurface	Arsenic	7440-38-2	12	1.6
LP003	Flint Hills	Area 3	10/9/1995	B7B	6.5	Subsurface	Arsenic	7440-38-2	13	1.6
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Arsenic	7440-38-2	13	1.6
LP024	Prescott Equipment	Area 4	8/12/1998	B3	7	Subsurface	Arsenic	7440-38-2	13.2	1.6
LP991	Arctic Cooperage	Area 5	5/29/1996	SB9	5	Subsurface	Arsenic	7440-38-2	14	1.6
LP003	Flint Hills	Area 3	10/9/1995	B12	6.5	Subsurface	Arsenic	7440-38-2	15	1.6
LP003	Flint Hills	Area 3	3/31/1992	16MW	4	Subsurface	Arsenic	7440-38-2	15	1.6
LP137	Laidlaw Transit	Area 5	10/10/1990	10W		Subsurface	Arsenic	7440-38-2	15	1.6
RY065	Railyard	Area 2	2/7/2001	7MW	14.5	Subsurface	Arsenic	7440-38-2	15.2	1.6
LP003	Flint Hills	Area 3	10/10/1995	B6B	4	Subsurface	Arsenic	7440-38-2	19	1.6
LP003	Flint Hills	Area 3	10/12/1994	S1	4.5	Subsurface	Arsenic	7440-38-2	19	1.6
LP003	Flint Hills	Area 3	10/11/1995	MW1	9	Subsurface	Arsenic	7440-38-2	19	1.6
LP003	Flint Hills	Area 3	10/10/1995	B2A	6.5	Subsurface	Arsenic	7440-38-2	21	1.6
LP003	Flint Hills	Area 3	10/10/1995	B6B	4	Subsurface	Arsenic	7440-38-2	21	1.6
LP003	Flint Hills	Area 3	10/9/1995	B11	6.5	Subsurface	Arsenic	7440-38-2	21	1.6
LP024	Prescott Equipment	Area 4	8/12/1998	SS2	0.5	Surface	Arsenic	7440-38-2	21.5	1.6
LP003	Flint Hills	Area 3	10/6/1995	B10	4	Subsurface	Arsenic	7440-38-2	22.7	1.6
LP024	Prescott Equipment	Area 4	8/12/1998	SS2	0.5	Surface	Arsenic	7440-38-2	23	1.6
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Arsenic	7440-38-2	23.7	1.6
LP024	Prescott Equipment	Area 4	8/12/1998	SS2	0.5	Surface	Arsenic	7440-38-2	24.7	1.6
LP120	KAPP	Area 6	10/5/1998	145F		Subsurface	Arsenic	7440-38-2	25.2	1.6
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Arsenic	7440-38-2	25.2	1.6
LP120	KAPP	Area 6	10/7/1998	145D		Subsurface	Arsenic	7440-38-2	26.9	1.6
LP991	Arctic Cooperage	Area 5	5/30/1996	SB4	18	Subsurface	Arsenic	7440-38-2	35	1.6
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Arsenic	7440-38-2	35.9	1.6
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Arsenic	7440-38-2	36.7	1.6
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Arsenic	7440-38-2	40.6	1.6
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Arsenic	7440-38-2	41.8	1.6
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Arsenic	7440-38-2	52.5	1.6
LP120	KAPP	Area 6	10/7/1998	145E		Subsurface	Arsenic	7440-38-2	53.9	1.6
LP127	Post Road Company - Tenancy	Area 5	8/31/1999	B5	11.5	Subsurface	Arsenic	7440-38-2	94	1.6
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	13	Subsurface	Benzene	71-43-2	1.4	1.32
LP019	Tesoro Terminal #1	Area 3	7/13/1989	TB8TR	4	Subsurface	Benzene	71-43-2	1.4	1.32
LP019	Tesoro Terminal #1	Area 3	7/15/1989	PWPL	5	Subsurface	Benzene	71-43-2	1.5	1.32
LP019	Tesoro Terminal #1	Area 3	7/10/1989	PWPL	5	Subsurface	Benzene	71-43-2	1.5	1.32
LP003	Flint Hills	Area 3	10/29/1990	S7	2	Subsurface	Benzene	71-43-2	1.6	1.32
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPB10	1	Subsurface	Benzene	71-43-2	1.6	1.32

Table F-1 Summary of Detected Soil Concentrations Exceeding Region IX Industrial PRGs
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	end_depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	USEPA Region IX Industrial Soil PRG mg/kg
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS1		Subsurface	Benzene	71-43-2	1.8	1.32
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS5		Subsurface	Benzene	71-43-2	1.8	1.32
LP991	Arctic Cooperage	Area 5	7/15/1996	SB5	2.5	Subsurface	Benzene	71-43-2	1.9	1.32
LP003	Flint Hills	Area 3	3/26/1992	B9	6	Subsurface	Benzene	71-43-2	2	1.32
LP003	Flint Hills	Area 3	10/9/1995	B9B	2	Subsurface	Benzene	71-43-2	2	1.32
LP024	Prescott Equipment	Area 4	8/14/1998	MW3		Subsurface	Benzene	71-43-2	2	1.32
LP003	Flint Hills	Area 3	4/1/1994	W65	4	Subsurface	Benzene	71-43-2	2.1	1.32
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS10		Subsurface	Benzene	71-43-2	2.1	1.32
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG2		Subsurface	Benzene	71-43-2	2.1	1.32
LP003	Flint Hills	Area 3	1/28/1998	B5	6	Subsurface	Benzene	71-43-2	2.27	1.32
LP003	Flint Hills	Area 3	4/1/1994	W40	7	Subsurface	Benzene	71-43-2	2.3	1.32
LP003	Flint Hills	Area 3	1/28/1998	B1	9	Subsurface	Benzene	71-43-2	2.41	1.32
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS9		Subsurface	Benzene	71-43-2	2.5	1.32
LP991	Arctic Cooperage	Area 5	10/28/1997	CHMW5	15	Subsurface	Benzene	71-43-2	2.7	1.32
LP003	Flint Hills	Area 3	10/10/1995	B2A	9	Subsurface	Benzene	71-43-2	2.7	1.32
LP019	Tesoro Terminal #1	Area 3	7/31/1998	PW19B	4.5	Subsurface	Benzene	71-43-2	2.8	1.32
LP003	Flint Hills	Area 3	10/6/1995	B18	9	Subsurface	Benzene	71-43-2	3	1.32
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	5	Subsurface	Benzene	71-43-2	3	1.32
LP003	Flint Hills	Area 3	8/19/2002	REX	3	Subsurface	Benzene	71-43-2	3.2	1.32
LP019	Tesoro Terminal #1	Area 3	7/31/1998	PW6	4.5	Subsurface	Benzene	71-43-2	3.3	1.32
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS5		Subsurface	Benzene	71-43-2	3.4	1.32
LP022	Municipal Light & Power	Area 5	4/4/1989	E7		Subsurface	Benzene	71-43-2	3.5	1.32
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS7	1	Subsurface	Benzene	71-43-2	3.5	1.32
LP003	Flint Hills	Area 3	1/28/1998	B7	6	Subsurface	Benzene	71-43-2	3.8	1.32
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Benzene	71-43-2	3.9	1.32
LP991	Arctic Cooperage	Area 5	8/5/1997	CHSB8	8	Subsurface	Benzene	71-43-2	4	1.32
LP991	Arctic Cooperage	Area 5	5/16/1996	301		Subsurface	Benzene	71-43-2	4	1.32
LP991	Arctic Cooperage	Area 5	9/20/1995	AC4		Subsurface	Benzene	71-43-2	4	1.32
LP003	Flint Hills	Area 3	10/9/1995	B13	15	Subsurface	Benzene	71-43-2	4.1	1.32
LP003	Flint Hills	Area 3	1/28/1998	B8	8	Subsurface	Benzene	71-43-2	4.23	1.32
LP003	Flint Hills	Area 3	1/28/1998	B4	8	Subsurface	Benzene	71-43-2	4.32	1.32
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS2	1	Subsurface	Benzene	71-43-2	4.8	1.32
LP019	Tesoro Terminal #1	Area 3	7/15/1989	TBD	4.5	Subsurface	Benzene	71-43-2	5	1.32
LP991	Arctic Cooperage	Area 5	10/25/2000	EX3		Subsurface	Benzene	71-43-2	5.1	1.32
RY065	Railyard	Area 2	6/7/1991	PIT1	7	Subsurface	Benzene	71-43-2	5.6	1.32
LP003	Flint Hills	Area 3	1/28/1998	B7	9	Subsurface	Benzene	71-43-2	5.76	1.32
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS7		Subsurface	Benzene	71-43-2	5.9	1.32
LP991	Arctic Cooperage	Area 5	5/16/1996	300		Subsurface	Benzene	71-43-2	6	1.32
LP991	Arctic Cooperage	Area 5	10/24/2000	EX2		Subsurface	Benzene	71-43-2	6.1	1.32
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	5	Subsurface	Benzene	71-43-2	6.5	1.32
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS997	1.5	Subsurface	Benzene	71-43-2	6.5	1.32
LP003	Flint Hills	Area 3	10/9/1995	B9	1	Subsurface	Benzene	71-43-2	6.6	1.32
LP003	Flint Hills	Area 3	1/28/1998	B8	6	Subsurface	Benzene	71-43-2	6.76	1.32
LP003	Flint Hills	Area 3	5/31/2002	RRTS17	3	Subsurface	Benzene	71-43-2	7	1.32
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Benzene	71-43-2	7	1.32
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG1		Subsurface	Benzene	71-43-2	7.5	1.32
LP003	Flint Hills	Area 3	4/1/1994	E46	4	Subsurface	Benzene	71-43-2	7.9	1.32
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS12		Subsurface	Benzene	71-43-2	8.3	1.32

Table F-1 Summary of Detected Soil Concentrations Exceeding Region IX Industrial PRGs
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	end_depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	USEPA Region IX Industrial Soil PRG mg/kg
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS11		Subsurface	Benzene	71-43-2	8.3	1.32
LP003	Flint Hills	Area 3	4/1/1994	E32	6	Subsurface	Benzene	71-43-2	9.1	1.32
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPB11	1	Subsurface	Benzene	71-43-2	9.7	1.32
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Benzene	71-43-2	10	1.32
LP991	Arctic Cooperage	Area 5	9/20/1995	AC5		Subsurface	Benzene	71-43-2	11	1.32
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	8	Subsurface	Benzene	71-43-2	11	1.32
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Benzene	71-43-2	11	1.32
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Benzene	71-43-2	12	1.32
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS22		Subsurface	Benzene	71-43-2	12	1.32
LP991	Arctic Cooperage	Area 5	5/16/1996	302		Subsurface	Benzene	71-43-2	13	1.32
LP991	Arctic Cooperage	Area 5	5/16/1996	303		Subsurface	Benzene	71-43-2	13	1.32
LP003	Flint Hills	Area 3	1/28/1998	B6	6	Subsurface	Benzene	71-43-2	13.4	1.32
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Benzene	71-43-2	14	1.32
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Benzene	71-43-2	14	1.32
LP019	Tesoro Terminal #1	Area 3	7/12/1989	TB4EX	7.5	Subsurface	Benzene	71-43-2	14	1.32
LP003	Flint Hills	Area 3	1/28/1998	B2	9	Subsurface	Benzene	71-43-2	14.1	1.32
LP003	Flint Hills	Area 3	1/28/1998	B3	8	Subsurface	Benzene	71-43-2	14.9	1.32
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	6	Subsurface	Benzene	71-43-2	15	1.32
LP003	Flint Hills	Area 3	4/1/1994	E33	4	Subsurface	Benzene	71-43-2	15	1.32
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB10	1	Subsurface	Benzene	71-43-2	16	1.32
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB6	2	Subsurface	Benzene	71-43-2	17	1.32
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPG2	1.5	Subsurface	Benzene	71-43-2	17	1.32
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Benzene	71-43-2	19	1.32
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Benzene	71-43-2	19	1.32
LP019	Tesoro Terminal #1	Area 3	7/15/1989	PWPL	4.5	Subsurface	Benzene	71-43-2	20	1.32
LP991	Arctic Cooperage	Area 5	8/5/1997	CHSB8	8	Subsurface	Benzene	71-43-2	21	1.32
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS8		Subsurface	Benzene	71-43-2	21	1.32
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Benzene	71-43-2	23	1.32
LP003	Flint Hills	Area 3	10/11/1995	MW1	8	Subsurface	Benzene	71-43-2	26	1.32
LP991	Arctic Cooperage	Area 5	5/16/1996	304		Subsurface	Benzene	71-43-2	27	1.32
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS13		Subsurface	Benzene	71-43-2	28	1.32
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Benzene	71-43-2	29	1.32
SS003	Flint Hills	Area 3	5/10/2002	SDS	4	Subsurface	Benzene	71-43-2	30	1.32
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB7	1.5	Subsurface	Benzene	71-43-2	31	1.32
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	6	Subsurface	Benzene	71-43-2	32	1.32
LP003	Flint Hills	Area 3	10/29/1990	S7	2	Subsurface	Benzene	71-43-2	42	1.32
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	8	Subsurface	Benzene	71-43-2	49	1.32
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Benzene	71-43-2	50	1.32
LP019	Tesoro Terminal #1	Area 3	7/30/1998	PW19B	4	Subsurface	Benzene	71-43-2	53	1.32
LP003	Flint Hills	Area 3	8/19/2002	PLOP1	6.5	Subsurface	Benzene	71-43-2	54	1.32
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	8	Subsurface	Benzene	71-43-2	55	1.32
LP003	Flint Hills	Area 3	5/31/2002	RRTS	3	Subsurface	Benzene	71-43-2	57	1.32
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Benzene	71-43-2	63	1.32
LP003	Flint Hills	Area 3	8/19/2002	PLOP2	2	Subsurface	Benzene	71-43-2	74	1.32
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS16	1	Subsurface	Benzene	71-43-2	77	1.32
LP003	Flint Hills	Area 3	5/31/2002	RRTS	3	Subsurface	Benzene	71-43-2	100	1.32
LP003	Flint Hills	Area 3	5/30/2002	RRTS9	2	Subsurface	Benzene	71-43-2	160	1.32
LP019	Tesoro Terminal #1	Area 3	7/31/1998	PW7	5	Subsurface	Benzene	71-43-2	170	1.32

Table F-1 Summary of Detected Soil Concentrations Exceeding Region IX Industrial PRGs
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	end_depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	USEPA Region IX Industrial Soil PRG mg/kg
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS8	2	Subsurface	Benzene	71-43-2	210	1.32
LP003	Flint Hills	Area 3	5/30/2002	RRTS1	3	Subsurface	Benzene	71-43-2	260	1.32
LP003	Flint Hills	Area 3	10/29/1990	S6	3	Subsurface	Benzene	71-43-2	300	1.32
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Benzene	71-43-2	330	1.32
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPG1	0	Surface	Benzene	71-43-2	590	1.32
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB6	0.5	Surface	Benzene	71-43-2	590	1.32
LP003	Flint Hills	Area 3	10/29/1990	S5	3	Subsurface	Benzene	71-43-2	970	1.32
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG3		Subsurface	Benzene	71-43-2	7200	1.32
LP120	KAPP	Area 6	10/7/1998	145I		Subsurface	Benzo(a)anthracene	56-55-3	3.21	2.11
LP120	KAPP	Area 6	10/7/1998	145Q		Subsurface	Benzo(a)pyrene	50-32-8	0.246	0.211
LP120	KAPP	Area 6	10/7/1998	145D		Subsurface	Benzo(a)pyrene	50-32-8	0.257	0.211
LP120	KAPP	Area 6	10/7/1998	145L		Subsurface	Benzo(a)pyrene	50-32-8	0.262	0.211
LP065	Princess Tours	Area 2	5/6/1994	SB4	4	Subsurface	Benzo(a)pyrene	50-32-8	0.3	0.211
LP120	KAPP	Area 6	10/7/1998	145M		Subsurface	Benzo(a)pyrene	50-32-8	0.351	0.211
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB6	15	Subsurface	Benzo(a)pyrene	50-32-8	0.4	0.211
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	8	Subsurface	Benzo(a)pyrene	50-32-8	0.6	0.211
LP991	Arctic Cooperage	Area 5	7/16/1996	SB4	12.5	Subsurface	Benzo(a)pyrene	50-32-8	0.7	0.211
LP991	Arctic Cooperage	Area 5	7/15/1996	SB4	17.5	Subsurface	Benzo(a)pyrene	50-32-8	0.7	0.211
LP137	Laidlaw Transit	Area 5	11/24/1998	CHSB4	16	Subsurface	Benzo(a)pyrene	50-32-8	0.7	0.211
LP024	Prescott Equipment	Area 4	8/12/1998	SS2	0.5	Surface	Benzo(a)pyrene	50-32-8	0.836	0.211
LP120	KAPP	Area 6	10/7/1998	145I		Subsurface	Benzo(a)pyrene	50-32-8	0.912	0.211
LP024	Prescott Equipment	Area 4	8/12/1998	SS2	0.5	Surface	Benzo(a)pyrene	50-32-8	1.08	0.211
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB6	10	Subsurface	Benzo(a)pyrene	50-32-8	1.3	0.211
LP991	Arctic Cooperage	Area 5	7/18/1996	SS3	0.5	Surface	Benzo(a)pyrene	50-32-8	1.5	0.211
LP991	Arctic Cooperage	Area 5	7/15/1996	SB7	15	Subsurface	Benzo(a)pyrene	50-32-8	2	0.211
LP120	KAPP	Area 6	10/7/1998	145I		Subsurface	Benzo(a)pyrene	50-32-8	3.84	0.211
LP120	KAPP	Area 6	10/7/1998	145I		Subsurface	Benzo(b)fluoranthene	205-99-2	2.91	2.11
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Cadmium	7440-43-9	745	450
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Chromium	7440-47-3	1570	450
LP120	KAPP	Area 6	10/7/1998	145M		Subsurface	Dibenz(a,h)anthracene	53-70-3	0.321	0.211
LP120	KAPP	Area 6	10/7/1998	145X	1	Subsurface	Dibenz(a,h)anthracene	53-70-3	0.337	0.211
LP120	KAPP	Area 6	10/7/1998	145I		Subsurface	Dibenz(a,h)anthracene	53-70-3	0.368	0.211
LP065	Princess Tours	Area 2	5/6/1994	SB4	4	Subsurface	Dibenz(a,h)anthracene	53-70-3	0.6	0.211
LP991	Arctic Cooperage	Area 5	7/18/1996	SS3	0.5	Surface	Dibenz(a,h)anthracene	53-70-3	0.64	0.211
LP120	KAPP	Area 6	10/7/1998	145I		Subsurface	Dibenz(a,h)anthracene	53-70-3	0.728	0.211
LP003	Flint Hills	Area 3	10/5/2000	TP7	3	Subsurface	Diesel Range Hydrocarbons	DRO	805000	100000
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS7		Subsurface	Ethylbenzene	100-41-4	20	19.5
LP003	Flint Hills	Area 3	1/28/1998	B3	8	Subsurface	Ethylbenzene	100-41-4	20.5	19.5
LP991	Arctic Cooperage	Area 5	5/16/1996	302		Subsurface	Ethylbenzene	100-41-4	23	19.5
LP991	Arctic Cooperage	Area 5	10/28/1997	CHMW5	15	Subsurface	Ethylbenzene	100-41-4	23	19.5
LP019	Tesoro Terminal #1	Area 3	7/15/1989	PWPL	4.5	Subsurface	Ethylbenzene	100-41-4	23	19.5
LP019	Tesoro Terminal #1	Area 3	6/7/1999	ESS20		Subsurface	Ethylbenzene	100-41-4	23	19.5
LP991	Arctic Cooperage	Area 5	11/18/1997	TR7	6	Subsurface	Ethylbenzene	100-41-4	24	19.5
LP003	Flint Hills	Area 3	8/19/2002	PLOP1	6.5	Subsurface	Ethylbenzene	100-41-4	24	19.5
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB7	1.5	Subsurface	Ethylbenzene	100-41-4	24	19.5
LP991	Arctic Cooperage	Area 5	8/5/1997	CHSB8	8	Subsurface	Ethylbenzene	100-41-4	25	19.5
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Ethylbenzene	100-41-4	26	19.5
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS12		Subsurface	Ethylbenzene	100-41-4	27	19.5

Table F-1 Summary of Detected Soil Concentrations Exceeding Region IX Industrial PRGs
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	end_depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	USEPA Region IX Industrial Soil PRG mg/kg
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Ethylbenzene	100-41-4	29	19.5
LP002	Consolidated Freightways	Area 1	6/20/1989	S10	5	Subsurface	Ethylbenzene	100-41-4	30	19.5
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS997	1.5	Subsurface	Ethylbenzene	100-41-4	31	19.5
LP019	Tesoro Terminal #1	Area 3	7/15/1989	TBD	4.5	Subsurface	Ethylbenzene	100-41-4	32	19.5
LP019	Tesoro Terminal #1	Area 3	5/10/1999	FS997	1.5	Subsurface	Ethylbenzene	100-41-4	32	19.5
LP022	Municipal Light & Power	Area 5	4/4/1989	E7		Subsurface	Ethylbenzene	100-41-4	35.1	19.5
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS11		Subsurface	Ethylbenzene	100-41-4	38	19.5
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Ethylbenzene	100-41-4	39	19.5
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	5	Subsurface	Ethylbenzene	100-41-4	39	19.5
LP019	Tesoro Terminal #1	Area 3	7/15/1989	PWPL	4.5	Subsurface	Ethylbenzene	100-41-4	39	19.5
LP991	Arctic Cooperage	Area 5	9/20/1995	AC5		Subsurface	Ethylbenzene	100-41-4	40	19.5
LP991	Arctic Cooperage	Area 5	5/16/1996	304		Subsurface	Ethylbenzene	100-41-4	42	19.5
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	8	Subsurface	Ethylbenzene	100-41-4	44	19.5
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	6	Subsurface	Ethylbenzene	100-41-4	46	19.5
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS5		Subsurface	Ethylbenzene	100-41-4	46	19.5
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL5		Subsurface	Ethylbenzene	100-41-4	47.8	19.5
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Ethylbenzene	100-41-4	48	19.5
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	5	Subsurface	Ethylbenzene	100-41-4	53	19.5
LP003	Flint Hills	Area 3	1/28/1998	B2	9	Subsurface	Ethylbenzene	100-41-4	55.5	19.5
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Ethylbenzene	100-41-4	57	19.5
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Ethylbenzene	100-41-4	60	19.5
LP003	Flint Hills	Area 3	10/11/1995	MW1	8	Subsurface	Ethylbenzene	100-41-4	67	19.5
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS8		Subsurface	Ethylbenzene	100-41-4	72	19.5
LP003	Flint Hills	Area 3	5/30/2002	RRTS9	2	Subsurface	Ethylbenzene	100-41-4	77	19.5
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Ethylbenzene	100-41-4	80	19.5
LP019	Tesoro Terminal #1	Area 3	7/30/1998	PW19B	4	Subsurface	Ethylbenzene	100-41-4	82	19.5
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS13		Subsurface	Ethylbenzene	100-41-4	86	19.5
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Ethylbenzene	100-41-4	92	19.5
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	8	Subsurface	Ethylbenzene	100-41-4	96	19.5
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Ethylbenzene	100-41-4	99	19.5
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Ethylbenzene	100-41-4	100	19.5
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	6	Subsurface	Ethylbenzene	100-41-4	110	19.5
LP003	Flint Hills	Area 3	10/29/1990	S7	2	Subsurface	Ethylbenzene	100-41-4	110	19.5
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Ethylbenzene	100-41-4	120	19.5
RY065	Railyard	Area 2	6/7/1991	PIT1	7	Subsurface	Ethylbenzene	100-41-4	120	19.5
LP003	Flint Hills	Area 3	5/30/2002	RRTS1	3	Subsurface	Ethylbenzene	100-41-4	130	19.5
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS16	1	Subsurface	Ethylbenzene	100-41-4	130	19.5
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS8	2	Subsurface	Ethylbenzene	100-41-4	130	19.5
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG1		Subsurface	Ethylbenzene	100-41-4	139	19.5
LP019	Tesoro Terminal #1	Area 3	7/31/1998	PW7	5	Subsurface	Ethylbenzene	100-41-4	140	19.5
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	8	Subsurface	Ethylbenzene	100-41-4	150	19.5
LP003	Flint Hills	Area 3	8/19/2002	PLOP2	2	Subsurface	Ethylbenzene	100-41-4	180	19.5
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Ethylbenzene	100-41-4	190	19.5
LP003	Flint Hills	Area 3	5/31/2002	RRTS	3	Subsurface	Ethylbenzene	100-41-4	240	19.5
LP003	Flint Hills	Area 3	10/29/1990	S6	3	Subsurface	Ethylbenzene	100-41-4	260	19.5
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPG1	0	Surface	Ethylbenzene	100-41-4	340	19.5
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB6	0.5	Surface	Ethylbenzene	100-41-4	340	19.5
LP003	Flint Hills	Area 3	10/29/1990	S5	3	Subsurface	Ethylbenzene	100-41-4	850	19.5

Table F-1 Summary of Detected Soil Concentrations Exceeding Region IX Industrial PRGs
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	end_depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	USEPA Region IX Industrial Soil PRG mg/kg
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG1		Subsurface	Ethylbenzene	100-41-4	1139	19.5
LP019	Tesoro Terminal #1	Area 3	7/15/1989	TBD	4.5	Subsurface	Gasoline Range Hydrocarbons	GRO	290000	100000
LP019	Tesoro Terminal #1	Area 3	1/1/1989	TBD	3	Subsurface	Gasoline Range Hydrocarbons	GRO	290000	100000
LP120	KAPP	Area 6	10/7/1998	145I		Subsurface	Indeno(1,2,3-cd)pyrene	193-39-5	2.18	2.11
LP991	Arctic Cooperage	Area 5	8/25/1997	CHMW1	4	Subsurface	Lead	7439-92-1	780	750
LP991	Arctic Cooperage	Area 5	12/4/1997	CHMW1A	6	Subsurface	Lead	7439-92-1	830	750
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Lead	7439-92-1	1095	750
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Lead	7439-92-1	1240	750
LP991	Arctic Cooperage	Area 5	6/4/1996	SS5		Subsurface	Lead	7439-92-1	1690	750
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Lead	7439-92-1	2010	750
LP065	Princess Tours	Area 2	5/6/1994	5MW	4	Subsurface	Lead	7439-92-1	2790	750
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Lead	7439-92-1	3420	750
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Lead	7439-92-1	3550	750
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Lead	7439-92-1	5750	750
LP085	CBS Equipment	Area 5	5/13/1997	MW5		Subsurface	Lead	7439-92-1	5900	750
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Lead	7439-92-1	6150	750
LP134	HW Alaska LLC	Area 5	8/22/1996	MW1		Subsurface	Lead	7439-92-1	6400	750
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Lead	7439-92-1	6800	750
LP085	CBS Equipment	Area 5	5/13/1997	MW5		Subsurface	Lead	7439-92-1	6900	750
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Lead	7439-92-1	7500	750
LP134	HW Alaska LLC	Area 5	8/22/1996	MW1		Subsurface	Lead	7439-92-1	7700	750
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Lead	7439-92-1	10800	750
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Lead	7439-92-1	11000	750
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	n-Butylbenzene	104-51-8	250	240
LP031	Keystone Services	Area 4	8/26/1998	TP1	6	Subsurface	PCBs, total	PCBs	0.904	0.74
RY065	Railyard	Area 2	10/28/1985	PIT1		Subsurface	PCBs, total	PCBs	1	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL16		Subsurface	PCBs, total	PCBs	1.1	0.74
RY065	Railyard	Area 2	10/30/1985	PIT1		Subsurface	PCBs, total	PCBs	1.1	0.74
LP131	Alaska Sheetmetal	Area 6	12/6/1995	S2	0.6	Subsurface	PCBs, total	PCBs	1.29	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL8		Subsurface	PCBs, total	PCBs	1.4	0.74
LP024	Prescott Equipment	Area 4	8/12/1998	SS2	0.5	Surface	PCBs, total	PCBs	1.4	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL9		Subsurface	PCBs, total	PCBs	1.5	0.74
LP031	Keystone Services	Area 4	8/26/1998	TP1	4	Subsurface	PCBs, total	PCBs	1.53	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL11		Subsurface	PCBs, total	PCBs	1.9	0.74
LP127	Post Road Company - Tenancy	Area 5	10/1/1991	ESL9		Subsurface	PCBs, total	PCBs	1.9	0.74
RY065	Railyard	Area 2	10/28/1985	PIT1		Subsurface	PCBs, total	PCBs	2	0.74
LP031	Keystone Services	Area 4	8/26/1998	TP1	0.5	Surface	PCBs, total	PCBs	2.04	0.74
RY065	Railyard	Area 2	6/2/1986	PIT1	7	Subsurface	PCBs, total	PCBs	2.2	0.74
RY065	Railyard	Area 2	10/28/1985	PIT1		Subsurface	PCBs, total	PCBs	2.2	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL35		Subsurface	PCBs, total	PCBs	2.4	0.74
RY065	Railyard	Area 2	11/5/1985	PIT1		Subsurface	PCBs, total	PCBs	2.4	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL31		Subsurface	PCBs, total	PCBs	2.7	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL37		Subsurface	PCBs, total	PCBs	2.7	0.74
LP031	Keystone Services	Area 4	9/21/1998	TP3	1	Subsurface	PCBs, total	PCBs	2.75	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	3	0.74
RY065	Railyard	Area 2	10/28/1985	PIT1		Subsurface	PCBs, total	PCBs	3	0.74
LP031	Keystone Services	Area 4	9/21/1998	TP3	2	Subsurface	PCBs, total	PCBs	3.08	0.74
LP127	Post Road Company - Tenancy	Area 5	10/1/1991	SS3	0.5	Surface	PCBs, total	PCBs	3.21	0.74

Table F-1 Summary of Detected Soil Concentrations Exceeding Region IX Industrial PRGs
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	end_depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	USEPA Region IX Industrial Soil PRG mg/kg
RY065	Railyard	Area 2	10/28/1985	PIT1		Subsurface	PCBs, total	PCBs	3.3	0.74
LP127	Post Road Company - Tenancy	Area 5	10/1/1991	ESL8		Subsurface	PCBs, total	PCBs	3.6	0.74
LP127	Post Road Company - Tenancy	Area 5	10/1/1991	ESL4		Subsurface	PCBs, total	PCBs	3.7	0.74
RY065	Railyard	Area 2	6/2/1986	PIT1	2	Subsurface	PCBs, total	PCBs	3.8	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	3.8	0.74
RY065	Railyard	Area 2	10/28/1985	PIT1		Subsurface	PCBs, total	PCBs	3.8	0.74
LP127	Post Road Company - Tenancy	Area 5	10/1/1991	SS1	0.5	Surface	PCBs, total	PCBs	3.86	0.74
RY065	Railyard	Area 2	10/28/1985	PIT1		Subsurface	PCBs, total	PCBs	3.9	0.74
RY065	Railyard	Area 2	10/28/1985	PIT1		Subsurface	PCBs, total	PCBs	4.1	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	4.6	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	6.1	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	6.2	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL28		Subsurface	PCBs, total	PCBs	7	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	7	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	7.2	0.74
RY065	Railyard	Area 2	10/28/1985	PIT1		Subsurface	PCBs, total	PCBs	7.3	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	8	0.74
RY065	Railyard	Area 2	10/28/1985	PIT1		Subsurface	PCBs, total	PCBs	8.3	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	10.5	0.74
LP131	Alaska Sheetmetal	Area 6	12/6/1995	S7	0.6	Subsurface	PCBs, total	PCBs	12	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	12	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	12	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	12	0.74
RY065	Railyard	Area 2	6/2/1986	PIT1	3	Subsurface	PCBs, total	PCBs	13	0.74
RY065	Railyard	Area 2	10/30/1985	PIT1		Subsurface	PCBs, total	PCBs	14	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	15	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	26	0.74
LP027	Chevron Former Asphalt	Area 3	1/1/1990	ESL29		Subsurface	PCBs, total	PCBs	31	0.74
LP031	Keystone Services	Area 4	8/26/1998	TP1	1	Subsurface	PCBs, total	PCBs	31.6	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	34	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	39	0.74
LP027	Chevron Former Asphalt	Area 3	1/1/1990	ESL25		Subsurface	PCBs, total	PCBs	40	0.74
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	SS25		Subsurface	PCBs, total	PCBs	40	0.74
RY065	Railyard	Area 2	11/5/1985	PIT1		Subsurface	PCBs, total	PCBs	42	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	42	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	46	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	49	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	53	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	59	0.74
RY065	Railyard	Area 2	10/29/1985	PIT1		Subsurface	PCBs, total	PCBs	61	0.74
RY065	Railyard	Area 2	11/5/1985	PIT1		Subsurface	PCBs, total	PCBs	85	0.74
RY065	Railyard	Area 2	10/30/1985	PIT1		Subsurface	PCBs, total	PCBs	87	0.74
RY065	Railyard	Area 2	10/30/1985	PIT1		Subsurface	PCBs, total	PCBs	90	0.74
RY065	Railyard	Area 2	10/30/1985	PIT1		Subsurface	PCBs, total	PCBs	91	0.74
RY065	Railyard	Area 2	11/5/1985	PIT1		Subsurface	PCBs, total	PCBs	96	0.74
RY065	Railyard	Area 2	6/2/1986	PIT1	2	Subsurface	PCBs, total	PCBs	101	0.74
RY065	Railyard	Area 2	10/30/1985	PIT1		Subsurface	PCBs, total	PCBs	101	0.74
RY065	Railyard	Area 2	11/5/1985	PIT1		Subsurface	PCBs, total	PCBs	136	0.74

Table F-1 Summary of Detected Soil Concentrations Exceeding Region IX Industrial PRGs
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	end_depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	USEPA Region IX Industrial Soil PRG mg/kg
LP127	Post Road Company - Tenancy	Area 5	10/1/1991	ESL7		Subsurface	PCBs, total	PCBs	180	0.74
RY065	Railyard	Area 2	11/5/1985	PIT1		Subsurface	PCBs, total	PCBs	218	0.74
RY065	Railyard	Area 2	10/30/1985	PIT1		Subsurface	PCBs, total	PCBs	225	0.74
RY065	Railyard	Area 2	11/5/1985	PIT1		Subsurface	PCBs, total	PCBs	400	0.74
RY065	Railyard	Area 2	11/5/1985	PIT1		Subsurface	PCBs, total	PCBs	500	0.74
RY065	Railyard	Area 2	6/2/1986	PIT1	1	Subsurface	PCBs, total	PCBs	2630	0.74
RY065	Railyard	Area 2	10/30/1985	PIT1		Subsurface	PCBs, total	PCBs	7400	0.74
RY065	Railyard	Area 2	10/30/1985	PIT1		Subsurface	PCBs, total	PCBs	7800	0.74
RY065	Railyard	Area 2	11/5/1985	PIT1		Subsurface	PCBs, total	PCBs	11000	0.74
RY065	Railyard	Area 2	11/5/1985	PIT1		Subsurface	PCBs, total	PCBs	36000	0.74
LP019	Tesoro Terminal #1	Area 3	7/31/1998	PW7	5	Subsurface	Toluene	108-88-3	540	520
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Toluene	108-88-3	570	520
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Toluene	108-88-3	590	520
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	8	Subsurface	Toluene	108-88-3	640	520
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS16	1	Subsurface	Toluene	108-88-3	720	520
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS8	2	Subsurface	Toluene	108-88-3	850	520
LP003	Flint Hills	Area 3	10/29/1990	S6	3	Subsurface	Toluene	108-88-3	1400	520
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB6	0.5	Surface	Toluene	108-88-3	2100	520
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPG1	0	Surface	Toluene	108-88-3	2100	520
LP003	Flint Hills	Area 3	10/29/1990	S5	3	Subsurface	Toluene	108-88-3	4200	520
LP991	Arctic Cooperage	Area 5	6/11/1996	SS5	0.5	Surface	TOTAL HXCDF	55684-94-1	0.00036	0.00016
LP991	Arctic Cooperage	Area 5	6/11/1996	SS5	0.5	Surface	TOTAL TCDD	41903-57-5	0.000017	0.000016
LP137	Laidlaw Transit	Area 5	6/24/1994	SS6	0.5	Surface	Trichloroethene	79-01-6	0.15	0.115
RY065	Railyard	Area 2	9/16/2003	SP14		Subsurface	Trichloroethene	79-01-6	0.152	0.115
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Trichloroethene	79-01-6	0.189	0.115
RY065	Railyard	Area 2	9/16/2003	SP6		Subsurface	Trichloroethene	79-01-6	0.216	0.115
RY065	Railyard	Area 2	9/16/2003	EX10		Subsurface	Trichloroethene	79-01-6	0.226	0.115
RY065	Railyard	Area 2	9/16/2003	EX9		Subsurface	Trichloroethene	79-01-6	0.228	0.115
RY065	Railyard	Area 2	9/16/2003	SP5		Subsurface	Trichloroethene	79-01-6	0.333	0.115
RY065	Railyard	Area 2	9/16/2003	SP13		Subsurface	Trichloroethene	79-01-6	0.347	0.115
LP127	Post Road Company - Tenancy	Area 5	5/1/2003	MW2	11.5	Subsurface	Trichloroethene	79-01-6	0.44	0.115
RY065	Railyard	Area 2	9/16/2003	EX3		Subsurface	Trichloroethene	79-01-6	0.51	0.115
RY065	Railyard	Area 2	9/16/2003	EX4		Subsurface	Trichloroethene	79-01-6	0.642	0.115
LP127	Post Road Company - Tenancy	Area 5	5/1/2003	MW2	6.5	Subsurface	Trichloroethene	79-01-6	0.74	0.115
LP127	Post Road Company - Tenancy	Area 5	8/31/1999	B3	4	Subsurface	Trichloroethene	79-01-6	0.978	0.115
LP127	Post Road Company - Tenancy	Area 5	9/21/1999	B7	5	Subsurface	Trichloroethene	79-01-6	1.71	0.115
RY065	Railyard	Area 2	8/20/2004	SDE1	0.5	Surface	Trichloroethene	79-01-6	2.9	0.115
RY065	Railyard	Area 2	8/20/2004	SDE1	0.5	Surface	Trichloroethene	79-01-6	3.4	0.115
LP137	Laidlaw Transit	Area 5	6/24/1994	SS5	0.5	Surface	Trichloroethene	79-01-6	6.5	0.115
LP127	Post Road Company - Tenancy	Area 5	5/1/2003	MW3	6.5	Subsurface	Trichloroethene	79-01-6	6.5	0.115
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Xylene, total	1330-20-7	440	420
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB7	0.5	Surface	Xylene, total	1330-20-7	470	420
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Xylene, total	1330-20-7	490	420
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	8	Subsurface	Xylene, total	1330-20-7	500	420
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	6	Subsurface	Xylene, total	1330-20-7	540	420
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Xylene, total	1330-20-7	560	420
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS13		Subsurface	Xylene, total	1330-20-7	580	420
LP003	Flint Hills	Area 3	10/29/1990	S7	2	Subsurface	Xylene, total	1330-20-7	590	420

Table F-1 Summary of Detected Soil Concentrations Exceeding Region IX Industrial PRGs
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	end_depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	USEPA Region IX Industrial Soil PRG mg/kg
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Xylene, total	1330-20-7	610	420
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB7	1.5	Subsurface	Xylene, total	1330-20-7	640	420
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Xylene, total	1330-20-7	680	420
LP019	Tesoro Terminal #1	Area 3	7/31/1998	PW7	5	Subsurface	Xylene, total	1330-20-7	690	420
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG1		Subsurface	Xylene, total	1330-20-7	715	420
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS2	1	Subsurface	Xylene, total	1330-20-7	730	420
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS16	1	Subsurface	Xylene, total	1330-20-7	770	420
RY065	Railyard	Area 2	6/7/1991	PIT1	7	Subsurface	Xylene, total	1330-20-7	780	420
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	8	Subsurface	Xylene, total	1330-20-7	800	420
LP003	Flint Hills	Area 3	5/31/2002	RRTS	3	Subsurface	Xylene, total	1330-20-7	900	420
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Xylene, total	1330-20-7	980	420
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS8	2	Subsurface	Xylene, total	1330-20-7	1000	420
LP003	Flint Hills	Area 3	8/19/2002	PLOP2	2	Subsurface	Xylene, total	1330-20-7	1100	420
LP003	Flint Hills	Area 3	10/29/1990	S6	3	Subsurface	Xylene, total	1330-20-7	1500	420
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB6	0.5	Surface	Xylene, total	1330-20-7	1700	420
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPG1	0	Surface	Xylene, total	1330-20-7	1700	420
SS003	Flint Hills	Area 3	5/10/2002	SDS	4	Subsurface	Xylene, total	1330-20-7	2700	420
LP003	Flint Hills	Area 3	10/29/1990	S5	3	Subsurface	Xylene, total	1330-20-7	4400	420

Notes:
mg/kg = milligrams per kilogram
only includes data from those sites designated as "Further Action"
PRG = preliminary remediation goal

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP137	Laidlaw Transit	Area 5	11/24/1998	CHSB2	8	Subsurface	1,1,2-Trichloroethane	79-00-5	0.02	0.017
LP991	Arctic Cooperage	Area 5	10/25/2000	EX3		Subsurface	1,1,2-Trichloroethane	79-00-5	4.5	0.017
LP127	Post Road Company - Tenancy	Area 5	8/31/1999	B5	11.5	Subsurface	1,1-Dichloroethene	75-35-4	0.048	0.03
LP065	Princess Tours	Area 2	6/3/1992	SB6	26.5	Subsurface	1,1-Dichloroethene	75-35-4	0.062	0.03
LP065	Princess Tours	Area 2	6/1/1992	4MW	11.5	Subsurface	1,1-Dichloroethene	75-35-4	0.064	0.03
LP065	Princess Tours	Area 2	5/29/1992	SB1	6.5	Subsurface	1,1-Dichloroethene	75-35-4	0.2	0.03
LP065	Princess Tours	Area 2	5/29/1992	MW1	11.5	Subsurface	1,1-Dichloroethene	75-35-4	0.24	0.03
LP991	Arctic Cooperage	Area 5	10/19/2000	EX3		Subsurface	1,2-Dichloropropane	78-87-5	1.3	0.017
LP003	Flint Hills	Area 3	4/1/1994	W220	4	Subsurface	1-Methylnaphthalene	90-12-0	44	43
LP991	Arctic Cooperage	Area 5	9/20/1995	AC5		Subsurface	2-Methylnaphthalene	91-57-6	78	60.9
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	2-Methylnaphthalene	91-57-6	80	60.9
LP991	Arctic Cooperage	Area 5	8/5/1997	CHSB8	8	Subsurface	2-Methylnaphthalene	91-57-6	81	60.9
LP991	Arctic Cooperage	Area 5	11/18/1997	TR7	6	Subsurface	2-Methylnaphthalene	91-57-6	84	60.9
LP991	Arctic Cooperage	Area 5	12/5/1997	CHMW5A	15	Subsurface	2-Methylnaphthalene	91-57-6	86	60.9
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	2-Methylnaphthalene	91-57-6	98	60.9
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	2-Methylnaphthalene	91-57-6	150	60.9
LP991	Arctic Cooperage	Area 5	10/28/1997	CHMW5	16	Subsurface	Acetone	67-64-1	11	10
LP991	Arctic Cooperage	Area 5	10/28/1997	CHMW5	15	Subsurface	Acetone	67-64-1	17	10
LP120	KAPP	Area 6	10/7/1998	145E		Subsurface	Antimony	7440-36-0	4.7	3.6
LP120	KAPP	Area 6	10/5/1998	145T		Subsurface	Antimony	7440-36-0	6.3	3.6
LP991	Arctic Cooperage	Area 5	6/4/1996	SS6		Subsurface	Antimony	7440-36-0	10	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Antimony	7440-36-0	118	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Antimony	7440-36-0	135	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Antimony	7440-36-0	140	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Antimony	7440-36-0	147	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Antimony	7440-36-0	147	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Antimony	7440-36-0	159	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Antimony	7440-36-0	165	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Antimony	7440-36-0	177	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Antimony	7440-36-0	184	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Antimony	7440-36-0	190	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Antimony	7440-36-0	245	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Antimony	7440-36-0	249	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Antimony	7440-36-0	257	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Antimony	7440-36-0	270	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Antimony	7440-36-0	281	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Antimony	7440-36-0	295	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Antimony	7440-36-0	296	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Antimony	7440-36-0	334	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Antimony	7440-36-0	341	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Antimony	7440-36-0	358	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Antimony	7440-36-0	371	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Antimony	7440-36-0	373	3.6
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Antimony	7440-36-0	480	3.6

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP127	Post Road Company - Tenancy	Area 5	8/31/1999	B2	11.5	Subsurface	Arsenic	7440-38-2	2.34	2
LP120	KAPP	Area 6	4/4/2000	B5	3	Subsurface	Arsenic	7440-38-2	2.37	2
LP127	Post Road Company - Tenancy	Area 5	8/31/1999	B3	4	Subsurface	Arsenic	7440-38-2	2.4	2
LP127	Post Road Company - Tenancy	Area 5	8/31/1999	B4	11.5	Subsurface	Arsenic	7440-38-2	2.65	2
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Arsenic	7440-38-2	2.77	2
RY065	Railyard	Area 2	9/16/2003	EX9		Subsurface	Arsenic	7440-38-2	2.89	2
RY065	Railyard	Area 2	9/16/2003	EX6		Subsurface	Arsenic	7440-38-2	2.97	2
LP003	Flint Hills	Area 3	2/26/1992	B17	4	Subsurface	Arsenic	7440-38-2	3	2
RY065	Railyard	Area 2	9/16/2003	EX10		Subsurface	Arsenic	7440-38-2	3.19	2
RY065	Railyard	Area 2	9/16/2003	EX4		Subsurface	Arsenic	7440-38-2	3.19	2
RY065	Railyard	Area 2	9/16/2003	SP5		Subsurface	Arsenic	7440-38-2	3.37	2
LP065	Princess Tours	Area 2	6/1/1992	4MW	16.5	Subsurface	Arsenic	7440-38-2	3.8	2
RY065	Railyard	Area 2	9/16/2003	SP8		Subsurface	Arsenic	7440-38-2	3.9	2
RY065	Railyard	Area 2	9/16/2003	SP6		Subsurface	Arsenic	7440-38-2	3.96	2
LP991	Arctic Cooperage	Area 5	12/15/1997	BL3	22	Subsurface	Arsenic	7440-38-2	4	2
LP991	Arctic Cooperage	Area 5	12/16/1997	BL4	12	Subsurface	Arsenic	7440-38-2	4	2
LP991	Arctic Cooperage	Area 5	12/16/1997	BL5	46	Subsurface	Arsenic	7440-38-2	4	2
LP003	Flint Hills	Area 3	2/26/1992	B30	4	Subsurface	Arsenic	7440-38-2	4	2
LP003	Flint Hills	Area 3	2/25/1992	B7	4	Subsurface	Arsenic	7440-38-2	4	2
RY065	Railyard	Area 2	11/22/1994	PIT1	1.5	Subsurface	Arsenic	7440-38-2	4	2
RY065	Railyard	Area 2	11/22/1994	PIT1	1.5	Subsurface	Arsenic	7440-38-2	4	2
RY065	Railyard	Area 2	6/1/1992	MW2	12	Subsurface	Arsenic	7440-38-2	4	2
LP065	Princess Tours	Area 2	5/29/1992	MW1	11.5	Subsurface	Arsenic	7440-38-2	4.1	2
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Arsenic	7440-38-2	4.14	2
RY065	Railyard	Area 2	9/16/2003	USTEX1		Subsurface	Arsenic	7440-38-2	4.15	2
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Arsenic	7440-38-2	4.15	2
LP131	Alaska Sheetmetal	Area 6	12/6/1995	S9	0.6	Subsurface	Arsenic	7440-38-2	4.2	2
LP137	Laidlaw Transit	Area 5	10/10/1990	12BS		Subsurface	Arsenic	7440-38-2	4.2	2
LP120	KAPP	Area 6	10/7/1998	145M		Subsurface	Arsenic	7440-38-2	4.29	2
LP131	Alaska Sheetmetal	Area 6	12/6/1995	S8	0.6	Subsurface	Arsenic	7440-38-2	4.3	2
LP125	L&J Cabs - CPR Automotive	Area 4	9/22/1989	15	8	Subsurface	Arsenic	7440-38-2	4.33	2
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Arsenic	7440-38-2	4.39	2
RY065	Railyard	Area 2	9/16/2003	EX8		Subsurface	Arsenic	7440-38-2	4.41	2
RY065	Railyard	Area 2	9/16/2003	USTEX1		Subsurface	Arsenic	7440-38-2	4.48	2
LP065	Princess Tours	Area 2	6/1/1992	4MW	11.5	Subsurface	Arsenic	7440-38-2	4.5	2
LP120	KAPP	Area 6	10/5/1998	145T		Subsurface	Arsenic	7440-38-2	4.6	2
LP065	Princess Tours	Area 2	5/6/1994	SB6	4	Subsurface	Arsenic	7440-38-2	4.6	2
LP065	Princess Tours	Area 2	5/29/1992	SB1	16.5	Subsurface	Arsenic	7440-38-2	4.6	2
LP024	Prescott Equipment	Area 4	6/11/1999	PECI29	2	Subsurface	Arsenic	7440-38-2	4.67	2
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Arsenic	7440-38-2	4.69	2
RY065	Railyard	Area 2	9/16/2003	SP2		Subsurface	Arsenic	7440-38-2	4.76	2
LP003	Flint Hills	Area 3	10/6/1995	B20	4	Subsurface	Arsenic	7440-38-2	4.8	2
RY065	Railyard	Area 2	9/16/2003	SP7		Subsurface	Arsenic	7440-38-2	4.84	2
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Arsenic	7440-38-2	4.89	2

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP065	Princess Tours	Area 2	5/6/1994	SB7	5.5	Subsurface	Arsenic	7440-38-2	4.9	2
LP065	Princess Tours	Area 2	5/29/1992	MW1	16.5	Subsurface	Arsenic	7440-38-2	4.9	2
LP120	KAPP	Area 6	1/1/1998	145G	1	Subsurface	Arsenic	7440-38-2	4.91	2
LP120	KAPP	Area 6	10/5/1998	145U		Subsurface	Arsenic	7440-38-2	4.91	2
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Arsenic	7440-38-2	4.92	2
LP991	Arctic Cooperage	Area 5	12/12/1997	BL1	47	Subsurface	Arsenic	7440-38-2	5	2
LP991	Arctic Cooperage	Area 5	12/15/1997	BL2	42	Subsurface	Arsenic	7440-38-2	5	2
LP991	Arctic Cooperage	Area 5	12/15/1997	BL3	40	Subsurface	Arsenic	7440-38-2	5	2
LP991	Arctic Cooperage	Area 5	5/28/1996	MW1	10	Subsurface	Arsenic	7440-38-2	5	2
LP991	Arctic Cooperage	Area 5	5/30/1996	SB11	2.5	Subsurface	Arsenic	7440-38-2	5	2
LP991	Arctic Cooperage	Area 5	5/30/1996	SB11	5	Subsurface	Arsenic	7440-38-2	5	2
LP991	Arctic Cooperage	Area 5	5/28/1996	MW1	5	Subsurface	Arsenic	7440-38-2	5	2
LP991	Arctic Cooperage	Area 5	5/28/1996	SB2	2.5	Subsurface	Arsenic	7440-38-2	5	2
LP991	Arctic Cooperage	Area 5	5/29/1996	SB3	5	Subsurface	Arsenic	7440-38-2	5	2
LP991	Arctic Cooperage	Area 5	5/28/1996	SB7	15	Subsurface	Arsenic	7440-38-2	5	2
LP991	Arctic Cooperage	Area 5	5/29/1996	SB8	12.5	Subsurface	Arsenic	7440-38-2	5	2
LP991	Arctic Cooperage	Area 5	5/29/1996	SB8	2.5	Subsurface	Arsenic	7440-38-2	5	2
LP991	Arctic Cooperage	Area 5	6/4/1996	SS12		Subsurface	Arsenic	7440-38-2	5	2
LP991	Arctic Cooperage	Area 5	8/30/1996	SS12		Subsurface	Arsenic	7440-38-2	5	2
LP991	Arctic Cooperage	Area 5	6/4/1996	SS13		Subsurface	Arsenic	7440-38-2	5	2
LP991	Arctic Cooperage	Area 5	8/30/1996	SS13		Subsurface	Arsenic	7440-38-2	5	2
LP003	Flint Hills	Area 3	10/5/1995	B23	1	Subsurface	Arsenic	7440-38-2	5	2
LP065	Princess Tours	Area 2	5/6/1994	SB6	3.5	Subsurface	Arsenic	7440-38-2	5	2
RY065	Railyard	Area 2	11/22/1994	PIT1	1.5	Subsurface	Arsenic	7440-38-2	5	2
LP065	Princess Tours	Area 2	2/7/2001	4MW	4	Subsurface	Arsenic	7440-38-2	5.03	2
RY065	Railyard	Area 2	9/16/2003	SP3		Subsurface	Arsenic	7440-38-2	5.07	2
LP120	KAPP	Area 6	10/6/1998	145K		Subsurface	Arsenic	7440-38-2	5.1	2
LP065	Princess Tours	Area 2	5/30/1992	SB3	11.5	Subsurface	Arsenic	7440-38-2	5.1	2
RY065	Railyard	Area 2	10/2/2003	USTEX11		Subsurface	Arsenic	7440-38-2	5.18	2
RY065	Railyard	Area 2	2/7/2001	9MW	6.5	Subsurface	Arsenic	7440-38-2	5.19	2
LP003	Flint Hills	Area 3	10/6/1995	B18	14	Subsurface	Arsenic	7440-38-2	5.2	2
LP024	Prescott Equipment	Area 4	6/11/1999	PEC	2	Subsurface	Arsenic	7440-38-2	5.2	2
LP024	Prescott Equipment	Area 4	6/11/1999	I51	2	Subsurface	Arsenic	7440-38-2	5.2	2
LP065	Princess Tours	Area 2	6/3/1992	GR1		Subsurface	Arsenic	7440-38-2	5.3	2
RY065	Railyard	Area 2	9/16/2003	SP4		Subsurface	Arsenic	7440-38-2	5.34	2
RY065	Railyard	Area 2	9/16/2003	EX5		Subsurface	Arsenic	7440-38-2	5.38	2
LP131	Alaska Sheetmetal	Area 6	12/6/1995	S4	2	Subsurface	Arsenic	7440-38-2	5.4	2
RY065	Railyard	Area 2	9/16/2003	EX3		Subsurface	Arsenic	7440-38-2	5.44	2
RY065	Railyard	Area 2	2/7/2001	10MW	4.2	Subsurface	Arsenic	7440-38-2	5.6	2
RY065	Railyard	Area 2	9/16/2003	USTSP1		Subsurface	Arsenic	7440-38-2	5.72	2
LP024	Prescott Equipment	Area 4	6/11/1999	PECI45	2	Subsurface	Arsenic	7440-38-2	5.74	2
RY065	Railyard	Area 2	10/2/2003	USTEX11		Subsurface	Arsenic	7440-38-2	5.77	2
RY065	Railyard	Area 2	10/2/2003	EX13		Subsurface	Arsenic	7440-38-2	5.86	2
LP003	Flint Hills	Area 3	10/5/1995	B22	9	Subsurface	Arsenic	7440-38-2	5.9	2

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP003	Flint Hills	Area 3	10/10/1995	B5A	6.5	Subsurface	Arsenic	7440-38-2	5.9	2
LP991	Arctic Cooperage	Area 5	12/15/1997	BL2	28	Subsurface	Arsenic	7440-38-2	6	2
LP991	Arctic Cooperage	Area 5	12/16/1997	BL4	48	Subsurface	Arsenic	7440-38-2	6	2
LP991	Arctic Cooperage	Area 5	12/16/1997	BL5	18	Subsurface	Arsenic	7440-38-2	6	2
LP991	Arctic Cooperage	Area 5	5/30/1996	SB10	2.5	Subsurface	Arsenic	7440-38-2	6	2
LP991	Arctic Cooperage	Area 5	5/30/1996	SB10	5	Subsurface	Arsenic	7440-38-2	6	2
LP991	Arctic Cooperage	Area 5	5/30/1996	MW3	5	Subsurface	Arsenic	7440-38-2	6	2
LP991	Arctic Cooperage	Area 5	5/30/1996	SB4	2.5	Subsurface	Arsenic	7440-38-2	6	2
LP991	Arctic Cooperage	Area 5	5/28/1996	SB7	12.5	Subsurface	Arsenic	7440-38-2	6	2
LP003	Flint Hills	Area 3	10/10/1995	B5	6.5	Subsurface	Arsenic	7440-38-2	6	2
LP003	Flint Hills	Area 3	2/26/1992	B20	4	Subsurface	Arsenic	7440-38-2	6	2
LP003	Flint Hills	Area 3	2/26/1992	B8	4	Subsurface	Arsenic	7440-38-2	6	2
RY065	Railyard	Area 2	2/7/2001	8MW	6.5	Subsurface	Arsenic	7440-38-2	6.19	2
LP120	KAPP	Area 6	10/6/1998	145J		Subsurface	Arsenic	7440-38-2	6.2	2
LP120	KAPP	Area 6	10/6/1998	145P		Subsurface	Arsenic	7440-38-2	6.21	2
LP120	KAPP	Area 6	10/7/1998	145I		Subsurface	Arsenic	7440-38-2	6.26	2
LP065	Princess Tours	Area 2	6/2/1992	SB5	21.5	Subsurface	Arsenic	7440-38-2	6.3	2
LP137	Laidlaw Transit	Area 5	10/10/1990	11BN		Subsurface	Arsenic	7440-38-2	6.4	2
LP065	Princess Tours	Area 2	5/6/1994	SB7	2	Subsurface	Arsenic	7440-38-2	6.4	2
LP065	Princess Tours	Area 2	6/1/1992	MW3	11.5	Subsurface	Arsenic	7440-38-2	6.4	2
LP120	KAPP	Area 6	10/6/1998	145R		Subsurface	Arsenic	7440-38-2	6.66	2
LP120	KAPP	Area 6	10/7/1998	145I		Subsurface	Arsenic	7440-38-2	6.68	2
LP137	Laidlaw Transit	Area 5	10/11/1990	MT		Subsurface	Arsenic	7440-38-2	6.7	2
LP120	KAPP	Area 6	10/6/1998	145R		Subsurface	Arsenic	7440-38-2	6.87	2
LP991	Arctic Cooperage	Area 5	12/12/1997	BL1	28	Subsurface	Arsenic	7440-38-2	7	2
LP991	Arctic Cooperage	Area 5	5/29/1996	SB6	2.5	Subsurface	Arsenic	7440-38-2	7	2
LP991	Arctic Cooperage	Area 5	5/29/1996	SB9	2.5	Subsurface	Arsenic	7440-38-2	7	2
LP991	Arctic Cooperage	Area 5	6/4/1996	SS3		Subsurface	Arsenic	7440-38-2	7	2
LP991	Arctic Cooperage	Area 5	6/4/1996	SS4		Subsurface	Arsenic	7440-38-2	7	2
LP991	Arctic Cooperage	Area 5	6/4/1996	SS5		Subsurface	Arsenic	7440-38-2	7	2
LP024	Prescott Equipment	Area 4	8/12/1998	B2	7	Subsurface	Arsenic	7440-38-2	7.01	2
LP127	Post Road Company - Tenancy	Area 5	8/31/1999	B1	16.5	Subsurface	Arsenic	7440-38-2	7.09	2
RY065	Railyard	Area 2	2/7/2001	6MW	4	Subsurface	Arsenic	7440-38-2	7.17	2
LP065	Princess Tours	Area 2	5/6/1994	SB6	6	Subsurface	Arsenic	7440-38-2	7.2	2
LP120	KAPP	Area 6	10/7/1998	145L		Subsurface	Arsenic	7440-38-2	7.23	2
LP120	KAPP	Area 6	10/5/1998	145F		Subsurface	Arsenic	7440-38-2	7.329	2
LP120	KAPP	Area 6	10/5/1998	145N		Subsurface	Arsenic	7440-38-2	7.35	2
LP120	KAPP	Area 6	10/7/1998	145I		Subsurface	Arsenic	7440-38-2	7.42	2
LP120	KAPP	Area 6	10/7/1998	145X	1	Subsurface	Arsenic	7440-38-2	7.57	2
LP120	KAPP	Area 6	10/5/1998	145N		Subsurface	Arsenic	7440-38-2	7.72	2
RY065	Railyard	Area 2	9/16/2003	EX7		Subsurface	Arsenic	7440-38-2	7.75	2
LP120	KAPP	Area 6	10/5/1998	145F		Subsurface	Arsenic	7440-38-2	7.77	2
LP003	Flint Hills	Area 3	10/6/1995	B14	4	Subsurface	Arsenic	7440-38-2	7.8	2
LP120	KAPP	Area 6	10/5/1998	145U		Subsurface	Arsenic	7440-38-2	7.96	2

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP991	Arctic Cooperage	Area 5	5/30/1996	MW3	2.5	Subsurface	Arsenic	7440-38-2	8	2
LP991	Arctic Cooperage	Area 5	5/29/1996	SB3	2.5	Subsurface	Arsenic	7440-38-2	8	2
LP991	Arctic Cooperage	Area 5	5/29/1996	SB5	2.5	Subsurface	Arsenic	7440-38-2	8	2
LP991	Arctic Cooperage	Area 5	5/29/1996	SB6	8	Subsurface	Arsenic	7440-38-2	8	2
LP991	Arctic Cooperage	Area 5	6/4/1996	SS2		Subsurface	Arsenic	7440-38-2	8	2
LP003	Flint Hills	Area 3	3/31/1992	14MW	9	Subsurface	Arsenic	7440-38-2	8	2
LP120	KAPP	Area 6	10/5/1998	145U		Subsurface	Arsenic	7440-38-2	8.05	2
LP120	KAPP	Area 6	10/7/1998	145L		Subsurface	Arsenic	7440-38-2	8.2	2
LP137	Laidlaw Transit	Area 5	10/10/1990	08E		Subsurface	Arsenic	7440-38-2	8.3	2
LP120	KAPP	Area 6	10/7/1998	145Q		Subsurface	Arsenic	7440-38-2	8.31	2
LP003	Flint Hills	Area 3	10/11/1995	MW2	4	Subsurface	Arsenic	7440-38-2	8.4	2
LP120	KAPP	Area 6	10/5/1998	145V		Subsurface	Arsenic	7440-38-2	8.5	2
LP120	KAPP	Area 6	10/5/1998	145S		Subsurface	Arsenic	7440-38-2	8.5	2
LP991	Arctic Cooperage	Area 5	5/29/1996	SB5	7.5	Subsurface	Arsenic	7440-38-2	9	2
LP991	Arctic Cooperage	Area 5	6/4/1996	SS1		Subsurface	Arsenic	7440-38-2	9	2
LP991	Arctic Cooperage	Area 5	6/4/1996	SS6		Subsurface	Arsenic	7440-38-2	9	2
LP003	Flint Hills	Area 3	3/26/1992	B13	6	Subsurface	Arsenic	7440-38-2	9	2
LP120	KAPP	Area 6	10/7/1998	145Q		Subsurface	Arsenic	7440-38-2	9.06	2
LP120	KAPP	Area 6	10/7/1998	145L		Subsurface	Arsenic	7440-38-2	9.08	2
LP120	KAPP	Area 6	10/6/1998	145P		Subsurface	Arsenic	7440-38-2	9.16	2
LP120	KAPP	Area 6	10/5/1998	145N		Subsurface	Arsenic	7440-38-2	9.47	2
LP065	Princess Tours	Area 2	5/6/1994	SB7	3	Subsurface	Arsenic	7440-38-2	9.5	2
RY065	Railyard	Area 2	2/7/2001	7MW	14.5	Subsurface	Arsenic	7440-38-2	9.58	2
LP120	KAPP	Area 6	10/7/1998	145M		Subsurface	Arsenic	7440-38-2	9.72	2
LP024	Prescott Equipment	Area 4	8/12/1998	B1	7	Subsurface	Arsenic	7440-38-2	9.72	2
LP120	KAPP	Area 6	10/7/1998	145Q		Subsurface	Arsenic	7440-38-2	9.92	2
LP003	Flint Hills	Area 3	3/31/1992	15MW	6	Subsurface	Arsenic	7440-38-2	10	2
LP003	Flint Hills	Area 3	2/26/1992	B28	4	Subsurface	Arsenic	7440-38-2	10	2
LP120	KAPP	Area 6	10/7/1998	145M		Subsurface	Arsenic	7440-38-2	10.1	2
LP120	KAPP	Area 6	10/6/1998	145R		Subsurface	Arsenic	7440-38-2	10.4	2
LP024	Prescott Equipment	Area 4	6/11/1999	PECI28	2	Subsurface	Arsenic	7440-38-2	10.5	2
RY065	Railyard	Area 2	10/8/1998	PIT1		Subsurface	Arsenic	7440-38-2	10.5	2
LP991	Arctic Cooperage	Area 5	5/28/1996	SB2	5	Subsurface	Arsenic	7440-38-2	11	2
LP003	Flint Hills	Area 3	10/9/1995	B9	4	Subsurface	Arsenic	7440-38-2	11	2
LP120	KAPP	Area 6	10/6/1998	145P		Subsurface	Arsenic	7440-38-2	11	2
LP003	Flint Hills	Area 3	10/9/1995	B13	14.5	Subsurface	Arsenic	7440-38-2	12	2
LP003	Flint Hills	Area 3	10/10/1995	B17	4	Subsurface	Arsenic	7440-38-2	12	2
LP003	Flint Hills	Area 3	10/9/1995	B7B	6.5	Subsurface	Arsenic	7440-38-2	13	2
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Arsenic	7440-38-2	13	2
LP024	Prescott Equipment	Area 4	8/12/1998	B3	7	Subsurface	Arsenic	7440-38-2	13.2	2
LP991	Arctic Cooperage	Area 5	5/29/1996	SB9	5	Subsurface	Arsenic	7440-38-2	14	2
LP003	Flint Hills	Area 3	10/9/1995	B12	6.5	Subsurface	Arsenic	7440-38-2	15	2
LP003	Flint Hills	Area 3	3/31/1992	16MW	4	Subsurface	Arsenic	7440-38-2	15	2
LP137	Laidlaw Transit	Area 5	10/10/1990	10W		Subsurface	Arsenic	7440-38-2	15	2

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
RY065	Railyard	Area 2	2/7/2001	7MW	14.5	Subsurface	Arsenic	7440-38-2	15.2	2
LP003	Flint Hills	Area 3	10/11/1995	MW1	9	Subsurface	Arsenic	7440-38-2	19	2
LP003	Flint Hills	Area 3	10/10/1995	B6B	4	Subsurface	Arsenic	7440-38-2	19	2
LP003	Flint Hills	Area 3	10/12/1994	S1	4.5	Subsurface	Arsenic	7440-38-2	19	2
LP003	Flint Hills	Area 3	10/9/1995	B11	6.5	Subsurface	Arsenic	7440-38-2	21	2
LP003	Flint Hills	Area 3	10/10/1995	B2A	6.5	Subsurface	Arsenic	7440-38-2	21	2
LP003	Flint Hills	Area 3	10/10/1995	B6B	4	Subsurface	Arsenic	7440-38-2	21	2
LP024	Prescott Equipment	Area 4	8/12/1998	SS2	0.5	Surface	Arsenic	7440-38-2	21.5	2
LP003	Flint Hills	Area 3	10/6/1995	B10	4	Subsurface	Arsenic	7440-38-2	22.7	2
LP024	Prescott Equipment	Area 4	8/12/1998	SS2	0.5	Surface	Arsenic	7440-38-2	23	2
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Arsenic	7440-38-2	23.7	2
LP024	Prescott Equipment	Area 4	8/12/1998	SS2	0.5	Surface	Arsenic	7440-38-2	24.7	2
LP120	KAPP	Area 6	10/5/1998	145F		Subsurface	Arsenic	7440-38-2	25.2	2
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Arsenic	7440-38-2	25.2	2
LP120	KAPP	Area 6	10/7/1998	145D		Subsurface	Arsenic	7440-38-2	26.9	2
LP991	Arctic Cooperage	Area 5	5/30/1996	SB4	18	Subsurface	Arsenic	7440-38-2	35	2
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Arsenic	7440-38-2	35.9	2
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Arsenic	7440-38-2	36.7	2
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Arsenic	7440-38-2	40.6	2
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Arsenic	7440-38-2	41.8	2
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Arsenic	7440-38-2	52.5	2
LP120	KAPP	Area 6	10/7/1998	145E		Subsurface	Arsenic	7440-38-2	53.9	2
LP127	Post Road Company - Tenancy	Area 5	8/31/1999	B5	11.5	Subsurface	Arsenic	7440-38-2	94	2
LP120	KAPP	Area 6	10/5/1998	145F		Subsurface	Barium	7440-39-3	1590	1100
LP019	Tesoro Terminal #1	Area 3	7/31/1998	PW4	8	Subsurface	Benzene	71-43-2	0.021	0.02
LP003	Flint Hills	Area 3	9/14/2001	TP7	3	Subsurface	Benzene	71-43-2	0.0227	0.02
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS5		Subsurface	Benzene	71-43-2	0.023	0.02
LP003	Flint Hills	Area 3	4/1/1994	W7	10	Subsurface	Benzene	71-43-2	0.024	0.02
LP019	Tesoro Terminal #1	Area 3	7/29/1998	PW17	4.5	Subsurface	Benzene	71-43-2	0.024	0.02
LP003	Flint Hills	Area 3	1/28/1998	B9	6	Subsurface	Benzene	71-43-2	0.0244	0.02
LP003	Flint Hills	Area 3	1/28/1998	B2	6	Subsurface	Benzene	71-43-2	0.0257	0.02
LP024	Prescott Equipment	Area 4	8/12/1998	B1	7	Subsurface	Benzene	71-43-2	0.0266	0.02
LP003	Flint Hills	Area 3	4/1/1994	W36	2	Subsurface	Benzene	71-43-2	0.027	0.02
LP120	KAPP	Area 6	1/14/1991	2	6	Subsurface	Benzene	71-43-2	0.029	0.02
LP003	Flint Hills	Area 3	4/1/1994	W1	4	Subsurface	Benzene	71-43-2	0.031	0.02
LP003	Flint Hills	Area 3	9/25/1992	SP10S4	2	Subsurface	Benzene	71-43-2	0.032	0.02
LP003	Flint Hills	Area 3	9/25/1992	S21	8	Subsurface	Benzene	71-43-2	0.032	0.02
LP019	Tesoro Terminal #1	Area 3	7/13/1989	TB4TR	3	Subsurface	Benzene	71-43-2	0.032	0.02
LP024	Prescott Equipment	Area 4	8/12/1998	B3	7	Subsurface	Benzene	71-43-2	0.0328	0.02
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS20		Subsurface	Benzene	71-43-2	0.033	0.02
LP003	Flint Hills	Area 3	1/28/1998	B8	3	Subsurface	Benzene	71-43-2	0.0332	0.02
RY065	Railyard	Area 2	11/1/1991	WR5		Subsurface	Benzene	71-43-2	0.035	0.02
LP003	Flint Hills	Area 3	9/25/1992	SP16S3	2	Subsurface	Benzene	71-43-2	0.036	0.02
LP003	Flint Hills	Area 3	4/1/1994	W35	3	Subsurface	Benzene	71-43-2	0.036	0.02

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP991	Arctic Cooperage	Area 5	11/13/1997	TR2	6	Subsurface	Benzene	71-43-2	0.037	0.02
LP120	KAPP	Area 6	1/14/1991	3	10	Subsurface	Benzene	71-43-2	0.037	0.02
LP120	KAPP	Area 6	1/14/1991	2	10	Subsurface	Benzene	71-43-2	0.039	0.02
LP019	Tesoro Terminal #1	Area 3	7/13/1989	TBC	6.5	Subsurface	Benzene	71-43-2	0.039	0.02
LP003	Flint Hills	Area 3	9/14/2001	TP5	3	Subsurface	Benzene	71-43-2	0.0398	0.02
LP003	Flint Hills	Area 3	7/25/2002	RE1	4	Subsurface	Benzene	71-43-2	0.041	0.02
LP003	Flint Hills	Area 3	10/9/1995	B13	9	Subsurface	Benzene	71-43-2	0.041	0.02
LP003	Flint Hills	Area 3	1/28/1998	B12	9	Subsurface	Benzene	71-43-2	0.0429	0.02
LP120	KAPP	Area 6	1/14/1991	3	6	Subsurface	Benzene	71-43-2	0.044	0.02
LP991	Arctic Cooperage	Area 5	12/4/1997	CHMW1A	16	Subsurface	Benzene	71-43-2	0.045	0.02
LP003	Flint Hills	Area 3	10/6/1995	B20	11.5	Subsurface	Benzene	71-43-2	0.045	0.02
LP003	Flint Hills	Area 3	11/10/1995	B16A	4	Subsurface	Benzene	71-43-2	0.048	0.02
LP137	Laidlaw Transit	Area 5	11/24/1998	CHSB2	8	Subsurface	Benzene	71-43-2	0.048	0.02
LP991	Arctic Cooperage	Area 5	5/16/1996	305		Subsurface	Benzene	71-43-2	0.05	0.02
LP003	Flint Hills	Area 3	7/23/2002	CSS	2	Subsurface	Benzene	71-43-2	0.05	0.02
LP049	Wrightway Auto Carriers	Area 6	10/16/1992	UST1	9	Subsurface	Benzene	71-43-2	0.05	0.02
LP003	Flint Hills	Area 3	10/9/1995	B9A	2	Subsurface	Benzene	71-43-2	0.052	0.02
LP003	Flint Hills	Area 3	1/28/1998	B14	9	Subsurface	Benzene	71-43-2	0.0527	0.02
LP003	Flint Hills	Area 3	6/10/1991	SPS3	1	Subsurface	Benzene	71-43-2	0.055	0.02
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS9929	2.5	Subsurface	Benzene	71-43-2	0.056	0.02
LP991	Arctic Cooperage	Area 5	8/5/1997	CHSB8	6	Subsurface	Benzene	71-43-2	0.057	0.02
LP016	Chevron USA Pipeline	Area 3	8/21/2000	SP1		Subsurface	Benzene	71-43-2	0.0571	0.02
LP003	Flint Hills	Area 3	4/1/1994	W60	10	Subsurface	Benzene	71-43-2	0.058	0.02
LP019	Tesoro Terminal #1	Area 3	7/11/1989	TB2EX	8	Subsurface	Benzene	71-43-2	0.058	0.02
LP016	Chevron USA Pipeline	Area 3	8/21/2000	SP1		Subsurface	Benzene	71-43-2	0.0586	0.02
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB3	8	Subsurface	Benzene	71-43-2	0.059	0.02
LP016	Chevron USA Pipeline	Area 3	10/10/2003	TW2		Subsurface	Benzene	71-43-2	0.06	0.02
LP003	Flint Hills	Area 3	2/25/1992	B25	4	Subsurface	Benzene	71-43-2	0.06	0.02
LP137	Laidlaw Transit	Area 5	11/24/1998	CHSB3	9	Subsurface	Benzene	71-43-2	0.06	0.02
LP003	Flint Hills	Area 3	6/10/1991	SPS8	1	Subsurface	Benzene	71-43-2	0.066	0.02
LP003	Flint Hills	Area 3	10/9/1995	B9D	4	Subsurface	Benzene	71-43-2	0.068	0.02
LP003	Flint Hills	Area 3	11/15/1995	B9D	4	Subsurface	Benzene	71-43-2	0.068	0.02
LP003	Flint Hills	Area 3	9/25/1992	SP15S4	2	Subsurface	Benzene	71-43-2	0.068	0.02
LP003	Flint Hills	Area 3	7/23/2002	CSS	2	Subsurface	Benzene	71-43-2	0.07	0.02
LP137	Laidlaw Transit	Area 5	11/24/1998	CHSB2	11	Subsurface	Benzene	71-43-2	0.07	0.02
LP003	Flint Hills	Area 3	7/27/2002	RE4	2	Subsurface	Benzene	71-43-2	0.071	0.02
LP003	Flint Hills	Area 3	4/1/1994	W10	4	Subsurface	Benzene	71-43-2	0.075	0.02
LP991	Arctic Cooperage	Area 5	5/30/1996	SB10	5	Subsurface	Benzene	71-43-2	0.077	0.02
LP024	Prescott Equipment	Area 4	9/17/1999	P917	2	Subsurface	Benzene	71-43-2	0.077	0.02
LP024	Prescott Equipment	Area 4	9/17/1999	P8	2	Subsurface	Benzene	71-43-2	0.077	0.02
LP019	Tesoro Terminal #1	Area 3	7/31/1998	PW15	4	Subsurface	Benzene	71-43-2	0.077	0.02
LP016	Chevron USA Pipeline	Area 3	8/22/2000	SP2		Subsurface	Benzene	71-43-2	0.0775	0.02
LP003	Flint Hills	Area 3	7/23/2002	CSS	2	Subsurface	Benzene	71-43-2	0.078	0.02
LP003	Flint Hills	Area 3	8/16/2002	REX2	2	Subsurface	Benzene	71-43-2	0.079	0.02

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP016	Chevron USA Pipeline	Area 3	10/10/2003	TW1		Subsurface	Benzene	71-43-2	0.08	0.02
LP016	Chevron USA Pipeline	Area 3	10/10/2003	TW3		Subsurface	Benzene	71-43-2	0.08	0.02
LP003	Flint Hills	Area 3	7/27/2002	RE5	2	Subsurface	Benzene	71-43-2	0.08	0.02
LP003	Flint Hills	Area 3	10/10/1995	B6B	6.5	Subsurface	Benzene	71-43-2	0.08	0.02
LP003	Flint Hills	Area 3	4/1/1994	W7	10	Subsurface	Benzene	71-43-2	0.08	0.02
LP120	KAPP	Area 6	1/1/1998	145Q	1	Subsurface	Benzene	71-43-2	0.08	0.02
LP120	KAPP	Area 6	1/1/1998	145D	0.5	Surface	Benzene	71-43-2	0.08	0.02
LP003	Flint Hills	Area 3	11/4/1998	Y6S1	2	Subsurface	Benzene	71-43-2	0.081	0.02
RY065	Railyard	Area 2	12/2/1991	B5	6	Subsurface	Benzene	71-43-2	0.083	0.02
LP003	Flint Hills	Area 3	10/9/1995	B7B	4	Subsurface	Benzene	71-43-2	0.085	0.02
LP019	Tesoro Terminal #1	Area 3	7/29/1998	PW13	6.5	Subsurface	Benzene	71-43-2	0.087	0.02
LP019	Tesoro Terminal #1	Area 3	7/13/1989	TB2TR	4	Subsurface	Benzene	71-43-2	0.087	0.02
LP991	Arctic Cooperage	Area 5	12/5/1997	CHMW5A	16	Subsurface	Benzene	71-43-2	0.09	0.02
LP003	Flint Hills	Area 3	10/29/2002	GPS1	2	Subsurface	Benzene	71-43-2	0.09	0.02
LP003	Flint Hills	Area 3	10/9/1995	B9F	3	Subsurface	Benzene	71-43-2	0.09	0.02
LP120	KAPP	Area 6	1/1/1998	145M	1	Subsurface	Benzene	71-43-2	0.09	0.02
LP003	Flint Hills	Area 3	4/1/1994	W9	4	Subsurface	Benzene	71-43-2	0.091	0.02
LP019	Tesoro Terminal #1	Area 3	7/30/1998	PW18	6	Subsurface	Benzene	71-43-2	0.092	0.02
LP003	Flint Hills	Area 3	10/6/1995	B18	6.5	Subsurface	Benzene	71-43-2	0.098	0.02
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS18		Subsurface	Benzene	71-43-2	0.098	0.02
LP003	Flint Hills	Area 3	7/23/2002	CSS	2	Subsurface	Benzene	71-43-2	0.1	0.02
LP003	Flint Hills	Area 3	10/12/1994	S1S2	2	Subsurface	Benzene	71-43-2	0.1	0.02
LP022	Municipal Light & Power	Area 5	4/3/1989	C2		Subsurface	Benzene	71-43-2	0.1	0.02
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS9913	2.5	Subsurface	Benzene	71-43-2	0.1	0.02
LP019	Tesoro Terminal #1	Area 3	5/10/1999	FS9913	2.5	Subsurface	Benzene	71-43-2	0.1	0.02
LP003	Flint Hills	Area 3	1/28/1998	B9	8	Subsurface	Benzene	71-43-2	0.104	0.02
LP120	KAPP	Area 6	1/15/1991	9		Subsurface	Benzene	71-43-2	0.106	0.02
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	4	Subsurface	Benzene	71-43-2	0.11	0.02
LP003	Flint Hills	Area 3	5/23/2002	L80	4	Subsurface	Benzene	71-43-2	0.11	0.02
LP003	Flint Hills	Area 3	3/26/1992	B12	9	Subsurface	Benzene	71-43-2	0.11	0.02
LP003	Flint Hills	Area 3	11/15/1995	B9E	2	Subsurface	Benzene	71-43-2	0.11	0.02
LP003	Flint Hills	Area 3	4/1/1994	E35	4	Subsurface	Benzene	71-43-2	0.11	0.02
LP003	Flint Hills	Area 3	2/25/1992	B17	4	Subsurface	Benzene	71-43-2	0.11	0.02
LP022	Municipal Light & Power	Area 5	4/4/1989	E3		Subsurface	Benzene	71-43-2	0.11	0.02
LP003	Flint Hills	Area 3	10/9/1995	B12	4	Subsurface	Benzene	71-43-2	0.12	0.02
LP003	Flint Hills	Area 3	10/10/1995	B2A	4	Subsurface	Benzene	71-43-2	0.12	0.02
LP003	Flint Hills	Area 3	2/25/1992	19A	4	Subsurface	Benzene	71-43-2	0.12	0.02
LP019	Tesoro Terminal #1	Area 3	10/19/1999	PW21	1	Subsurface	Benzene	71-43-2	0.12	0.02
LP003	Flint Hills	Area 3	6/10/1991	SPS1	1	Subsurface	Benzene	71-43-2	0.132	0.02
LP003	Flint Hills	Area 3	6/10/1991	SPS2	1	Subsurface	Benzene	71-43-2	0.137	0.02
LP003	Flint Hills	Area 3	4/1/1994	E32	4	Subsurface	Benzene	71-43-2	0.14	0.02
LP024	Prescott Equipment	Area 4	9/17/1999	P917	2	Subsurface	Benzene	71-43-2	0.14	0.02
LP024	Prescott Equipment	Area 4	9/17/1999	P5	2	Subsurface	Benzene	71-43-2	0.14	0.02
LP019	Tesoro Terminal #1	Area 3	7/11/1989	TB1EX	11	Subsurface	Benzene	71-43-2	0.14	0.02

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 Inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP003	Flint Hills	Area 3	9/25/1992	S18	4	Subsurface	Benzene	71-43-2	0.146	0.02
LP003	Flint Hills	Area 3	6/10/1991	SPS9	1	Subsurface	Benzene	71-43-2	0.147	0.02
LP003	Flint Hills	Area 3	9/6/2002	906022	2	Subsurface	Benzene	71-43-2	0.15	0.02
LP003	Flint Hills	Area 3	10/6/1995	B18	6.5	Subsurface	Benzene	71-43-2	0.15	0.02
LP003	Flint Hills	Area 3	6/10/1991	SPS5	1	Subsurface	Benzene	71-43-2	0.153	0.02
LP016	Chevron USA Pipeline	Area 3	8/22/2000	SP2		Subsurface	Benzene	71-43-2	0.154	0.02
LP991	Arctic Cooperage	Area 5	11/13/1997	TR3	5	Subsurface	Benzene	71-43-2	0.16	0.02
LP003	Flint Hills	Area 3	7/23/2002	CSS	2	Subsurface	Benzene	71-43-2	0.16	0.02
LP003	Flint Hills	Area 3	1/28/1998	B14	6	Subsurface	Benzene	71-43-2	0.164	0.02
LP003	Flint Hills	Area 3	10/6/1995	B18	15	Subsurface	Benzene	71-43-2	0.17	0.02
LP003	Flint Hills	Area 3	4/1/1994	W4	9	Subsurface	Benzene	71-43-2	0.17	0.02
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB3	5	Subsurface	Benzene	71-43-2	0.17	0.02
LP065	Princess Tours	Area 2	5/6/1994	SB4	6	Subsurface	Benzene	71-43-2	0.17	0.02
LP019	Tesoro Terminal #1	Area 3	10/19/1999	PW25		Subsurface	Benzene	71-43-2	0.17	0.02
LP003	Flint Hills	Area 3	6/10/1991	SPS10	1	Subsurface	Benzene	71-43-2	0.171	0.02
LP003	Flint Hills	Area 3	4/1/1994	W1	6	Subsurface	Benzene	71-43-2	0.18	0.02
LP003	Flint Hills	Area 3	4/1/1994	W60	12	Subsurface	Benzene	71-43-2	0.18	0.02
LP019	Tesoro Terminal #1	Area 3	7/13/1989	TB6TR	9	Subsurface	Benzene	71-43-2	0.18	0.02
LP024	Prescott Equipment	Area 4	8/12/1998	SS6	0.5	Surface	Benzene	71-43-2	0.183	0.02
LP003	Flint Hills	Area 3	6/6/2002	GPS3	2	Subsurface	Benzene	71-43-2	0.19	0.02
LP003	Flint Hills	Area 3	3/26/1992	B12	12	Subsurface	Benzene	71-43-2	0.19	0.02
LP003	Flint Hills	Area 3	10/9/1995	B13	11.5	Subsurface	Benzene	71-43-2	0.19	0.02
LP003	Flint Hills	Area 3	10/11/1995	MW2	6.5	Subsurface	Benzene	71-43-2	0.19	0.02
LP016	Chevron USA Pipeline	Area 3	10/10/2003	TW4		Subsurface	Benzene	71-43-2	0.2	0.02
LP003	Flint Hills	Area 3	6/6/2002	GPS3	2	Subsurface	Benzene	71-43-2	0.2	0.02
LP003	Flint Hills	Area 3	1/28/1998	B10	12	Subsurface	Benzene	71-43-2	0.2	0.02
LP003	Flint Hills	Area 3	3/26/1992	B11	4	Subsurface	Benzene	71-43-2	0.2	0.02
LP003	Flint Hills	Area 3	1/28/1998	B13	6	Subsurface	Benzene	71-43-2	0.2	0.02
LP022	Municipal Light & Power	Area 5	4/2/1989	B2B		Subsurface	Benzene	71-43-2	0.2	0.02
LP024	Prescott Equipment	Area 4	8/12/1998	SS5	0.5	Surface	Benzene	71-43-2	0.208	0.02
LP003	Flint Hills	Area 3	11/4/1998	S7	2	Subsurface	Benzene	71-43-2	0.21	0.02
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB3	8	Subsurface	Benzene	71-43-2	0.21	0.02
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS19		Subsurface	Benzene	71-43-2	0.21	0.02
LP003	Flint Hills	Area 3	1/28/1998	B13	12	Subsurface	Benzene	71-43-2	0.213	0.02
LP003	Flint Hills	Area 3	10/11/1995	MW2	9	Subsurface	Benzene	71-43-2	0.22	0.02
LP003	Flint Hills	Area 3	11/20/1995	B5H	10	Subsurface	Benzene	71-43-2	0.22	0.02
LP003	Flint Hills	Area 3	6/10/1991	SPS11	1	Subsurface	Benzene	71-43-2	0.222	0.02
LP137	Laidlaw Transit	Area 5	10/11/1990	MT		Subsurface	Benzene	71-43-2	0.223	0.02
LP003	Flint Hills	Area 3	10/10/1995	B6B	9	Subsurface	Benzene	71-43-2	0.23	0.02
LP019	Tesoro Terminal #1	Area 3	7/13/1989	TB5TR	10.5	Subsurface	Benzene	71-43-2	0.23	0.02
LP003	Flint Hills	Area 3	1/28/1998	B4	6	Subsurface	Benzene	71-43-2	0.248	0.02
LP120	KAPP	Area 6	1/14/1991	1		Subsurface	Benzene	71-43-2	0.248	0.02
LP003	Flint Hills	Area 3	9/6/2002	906021	2	Subsurface	Benzene	71-43-2	0.25	0.02
LP003	Flint Hills	Area 3	4/1/1994	W4	5	Subsurface	Benzene	71-43-2	0.25	0.02

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP137	Laidlaw Transit	Area 5	11/24/1998	CHSB2	8	Subsurface	Benzene	71-43-2	0.25	0.02
LP003	Flint Hills	Area 3	6/10/1991	SPS12	1	Subsurface	Benzene	71-43-2	0.256	0.02
LP003	Flint Hills	Area 3	10/6/1995	B18	4	Subsurface	Benzene	71-43-2	0.26	0.02
LP019	Tesoro Terminal #1	Area 3	5/10/1999	FS996	1.5	Subsurface	Benzene	71-43-2	0.26	0.02
LP003	Flint Hills	Area 3	10/9/1995	B9	6.5	Subsurface	Benzene	71-43-2	0.27	0.02
LP019	Tesoro Terminal #1	Area 3	7/13/1989	TB4TR	8	Subsurface	Benzene	71-43-2	0.27	0.02
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS23		Subsurface	Benzene	71-43-2	0.27	0.02
LP003	Flint Hills	Area 3	9/6/2002	906021	2	Subsurface	Benzene	71-43-2	0.28	0.02
LP003	Flint Hills	Area 3	10/10/1995	B6B	9	Subsurface	Benzene	71-43-2	0.28	0.02
LP003	Flint Hills	Area 3	9/25/1992	SP21S1	2	Subsurface	Benzene	71-43-2	0.28	0.02
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS9		Subsurface	Benzene	71-43-2	0.28	0.02
LP019	Tesoro Terminal #1	Area 3	7/15/1989	MW1	7	Subsurface	Benzene	71-43-2	0.29	0.02
LP003	Flint Hills	Area 3	5/23/2002	N60	6.5	Subsurface	Benzene	71-43-2	0.3	0.02
LP019	Tesoro Terminal #1	Area 3	7/12/1989	TBA	6	Subsurface	Benzene	71-43-2	0.3	0.02
LP003	Flint Hills	Area 3	11/15/1995	B5B	4	Subsurface	Benzene	71-43-2	0.31	0.02
LP003	Flint Hills	Area 3	4/1/1994	W10	10	Subsurface	Benzene	71-43-2	0.31	0.02
LP003	Flint Hills	Area 3	9/25/1992	S20	8	Subsurface	Benzene	71-43-2	0.311	0.02
LP003	Flint Hills	Area 3	6/10/1991	SPS7	1	Subsurface	Benzene	71-43-2	0.316	0.02
RY065	Railyard	Area 2	10/29/1991	MY1		Subsurface	Benzene	71-43-2	0.329	0.02
LP003	Flint Hills	Area 3	6/18/2002	DSS1	2	Subsurface	Benzene	71-43-2	0.33	0.02
LP003	Flint Hills	Area 3	4/1/1994	EA59	12	Subsurface	Benzene	71-43-2	0.33	0.02
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS996	1.5	Subsurface	Benzene	71-43-2	0.33	0.02
LP991	Arctic Cooperage	Area 5	12/4/1997	CHMW1A	16	Subsurface	Benzene	71-43-2	0.34	0.02
LP991	Arctic Cooperage	Area 5	10/28/1997	CHMW5	16	Subsurface	Benzene	71-43-2	0.34	0.02
LP049	Wrightway Auto Carriers	Area 6	10/16/1992	TP4	9	Subsurface	Benzene	71-43-2	0.35	0.02
LP991	Arctic Cooperage	Area 5	12/4/1997	CHMW1A	17	Subsurface	Benzene	71-43-2	0.36	0.02
LP003	Flint Hills	Area 3	9/5/2002	PL22	2	Subsurface	Benzene	71-43-2	0.36	0.02
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS17		Subsurface	Benzene	71-43-2	0.37	0.02
LP003	Flint Hills	Area 3	9/5/2002	PL23	6.5	Subsurface	Benzene	71-43-2	0.39	0.02
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	10	Subsurface	Benzene	71-43-2	0.39	0.02
LP019	Tesoro Terminal #1	Area 3	10/19/1999	PW23		Subsurface	Benzene	71-43-2	0.39	0.02
LP003	Flint Hills	Area 3	1/28/1998	B12	6	Subsurface	Benzene	71-43-2	0.392	0.02
LP003	Flint Hills	Area 3	9/5/2002	PL23	6.5	Subsurface	Benzene	71-43-2	0.41	0.02
RY065	Railyard	Area 2	10/29/1991	MY2		Subsurface	Benzene	71-43-2	0.419	0.02
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS21		Subsurface	Benzene	71-43-2	0.42	0.02
LP003	Flint Hills	Area 3	10/6/1995	B14	6.5	Subsurface	Benzene	71-43-2	0.43	0.02
LP003	Flint Hills	Area 3	1/28/1998	B7	3	Subsurface	Benzene	71-43-2	0.436	0.02
LP003	Flint Hills	Area 3	7/27/2002	RE6	2	Subsurface	Benzene	71-43-2	0.46	0.02
LP003	Flint Hills	Area 3	4/1/1994	W36	4	Subsurface	Benzene	71-43-2	0.46	0.02
LP003	Flint Hills	Area 3	1/28/1998	B6	8	Subsurface	Benzene	71-43-2	0.464	0.02
LP003	Flint Hills	Area 3	6/10/1991	SPS4	1	Subsurface	Benzene	71-43-2	0.477	0.02
LP003	Flint Hills	Area 3	11/15/1995	B5A	4	Subsurface	Benzene	71-43-2	0.48	0.02
LP991	Arctic Cooperage	Area 5	10/28/1997	CHMW5	15	Subsurface	Benzene	71-43-2	0.5	0.02
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB2	8	Subsurface	Benzene	71-43-2	0.5	0.02

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP003	Flint Hills	Area 3	4/1/1994	W1	9	Subsurface	Benzene	71-43-2	0.51	0.02
LP991	Arctic Cooperage	Area 5	12/5/1997	CHMW5A	15	Subsurface	Benzene	71-43-2	0.53	0.02
LP991	Arctic Cooperage	Area 5	8/5/1997	CHSB7	5	Subsurface	Benzene	71-43-2	0.53	0.02
LP003	Flint Hills	Area 3	11/15/1995	B5C	7	Subsurface	Benzene	71-43-2	0.53	0.02
LP991	Arctic Cooperage	Area 5	12/5/1997	CHMW5A	15	Subsurface	Benzene	71-43-2	0.54	0.02
LP003	Flint Hills	Area 3	6/5/2002	GPS2	2	Subsurface	Benzene	71-43-2	0.54	0.02
LP003	Flint Hills	Area 3	1/28/1998	B13	8	Subsurface	Benzene	71-43-2	0.586	0.02
LP003	Flint Hills	Area 3	8/18/2002	REX	2	Subsurface	Benzene	71-43-2	0.59	0.02
LP019	Tesoro Terminal #1	Area 3	7/10/1989	PWPL	8.5	Subsurface	Benzene	71-43-2	0.59	0.02
LP019	Tesoro Terminal #1	Area 3	7/15/1989	PWPL	8.5	Subsurface	Benzene	71-43-2	0.59	0.02
LP991	Arctic Cooperage	Area 5	5/16/1996	301		Subsurface	Benzene	71-43-2	0.6	0.02
LP991	Arctic Cooperage	Area 5	8/5/1997	CHSB8	6	Subsurface	Benzene	71-43-2	0.6	0.02
LP003	Flint Hills	Area 3	9/29/1992	S27	4	Subsurface	Benzene	71-43-2	0.61	0.02
LP003	Flint Hills	Area 3	9/5/2002	PL21	7	Subsurface	Benzene	71-43-2	0.64	0.02
LP120	KAPP	Area 6	1/1/1998	145G	1	Subsurface	Benzene	71-43-2	0.64	0.02
LP019	Tesoro Terminal #1	Area 3	7/10/1989	TB1TR	3.5	Subsurface	Benzene	71-43-2	0.66	0.02
LP019	Tesoro Terminal #1	Area 3	10/19/1999	PW24		Subsurface	Benzene	71-43-2	0.68	0.02
LP019	Tesoro Terminal #1	Area 3	7/15/1989	TB6EX	5.5	Subsurface	Benzene	71-43-2	0.71	0.02
LP003	Flint Hills	Area 3	10/10/1995	B5A	9	Subsurface	Benzene	71-43-2	0.73	0.02
LP003	Flint Hills	Area 3	10/10/1995	B5	9	Subsurface	Benzene	71-43-2	0.74	0.02
LP003	Flint Hills	Area 3	9/23/1992	S4	4	Subsurface	Benzene	71-43-2	0.77	0.02
LP991	Arctic Cooperage	Area 5	7/15/1996	SB7	15	Subsurface	Benzene	71-43-2	0.8	0.02
LP003	Flint Hills	Area 3	6/3/2002	GPS1	2	Subsurface	Benzene	71-43-2	0.83	0.02
LP019	Tesoro Terminal #1	Area 3	7/15/1989	PWPL	4.5	Subsurface	Benzene	71-43-2	0.83	0.02
LP024	Prescott Equipment	Area 4	8/11/1999	PEC1	2	Subsurface	Benzene	71-43-2	0.889	0.02
LP003	Flint Hills	Area 3	1/28/1998	B10	6	Subsurface	Benzene	71-43-2	0.9	0.02
LP022	Municipal Light & Power	Area 5	4/3/1989	C4		Subsurface	Benzene	71-43-2	0.9	0.02
LP019	Tesoro Terminal #1	Area 3	7/15/1989	PWPL	8.5	Subsurface	Benzene	71-43-2	0.95	0.02
LP991	Arctic Cooperage	Area 5	10/19/2000	EX3		Subsurface	Benzene	71-43-2	0.97	0.02
LP991	Arctic Cooperage	Area 5	10/19/2000	EX3		Subsurface	Benzene	71-43-2	0.98	0.02
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	8	Subsurface	Benzene	71-43-2	1	0.02
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Benzene	71-43-2	1	0.02
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS10	4	Subsurface	Benzene	71-43-2	1	0.02
LP991	Arctic Cooperage	Area 5	10/19/2000	EX4		Subsurface	Benzene	71-43-2	1.1	0.02
LP003	Flint Hills	Area 3	7/27/2002	RE6	2	Subsurface	Benzene	71-43-2	1.1	0.02
LP003	Flint Hills	Area 3	4/1/1994	E32	9	Subsurface	Benzene	71-43-2	1.1	0.02
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	13	Subsurface	Benzene	71-43-2	1.2	0.02
LP003	Flint Hills	Area 3	1/28/1998	B3	6	Subsurface	Benzene	71-43-2	1.2	0.02
LP003	Flint Hills	Area 3	4/1/1994	W4	12	Subsurface	Benzene	71-43-2	1.2	0.02
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS15		Subsurface	Benzene	71-43-2	1.2	0.02
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS13		Subsurface	Benzene	71-43-2	1.3	0.02
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	13	Subsurface	Benzene	71-43-2	1.4	0.02
LP019	Tesoro Terminal #1	Area 3	7/13/1989	TB8TR	4	Subsurface	Benzene	71-43-2	1.4	0.02
LP019	Tesoro Terminal #1	Area 3	7/10/1989	PWPL	5	Subsurface	Benzene	71-43-2	1.5	0.02

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP019	Tesoro Terminal #1	Area 3	7/15/1989	PWPL	5	Subsurface	Benzene	71-43-2	1.5	0.02
LP003	Flint Hills	Area 3	10/29/1990	S7	2	Subsurface	Benzene	71-43-2	1.6	0.02
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPB10	1	Subsurface	Benzene	71-43-2	1.6	0.02
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS5		Subsurface	Benzene	71-43-2	1.8	0.02
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS1		Subsurface	Benzene	71-43-2	1.8	0.02
LP991	Arctic Cooperage	Area 5	7/15/1996	SB5	2.5	Subsurface	Benzene	71-43-2	1.9	0.02
LP003	Flint Hills	Area 3	10/9/1995	B9B	2	Subsurface	Benzene	71-43-2	2	0.02
LP003	Flint Hills	Area 3	3/26/1992	B9	6	Subsurface	Benzene	71-43-2	2	0.02
LP024	Prescott Equipment	Area 4	8/14/1998	MW3		Subsurface	Benzene	71-43-2	2	0.02
LP003	Flint Hills	Area 3	4/1/1994	W65	4	Subsurface	Benzene	71-43-2	2.1	0.02
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS10		Subsurface	Benzene	71-43-2	2.1	0.02
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG2		Subsurface	Benzene	71-43-2	2.1	0.02
LP003	Flint Hills	Area 3	1/28/1998	B5	6	Subsurface	Benzene	71-43-2	2.27	0.02
LP003	Flint Hills	Area 3	4/1/1994	W40	7	Subsurface	Benzene	71-43-2	2.3	0.02
LP003	Flint Hills	Area 3	1/28/1998	B1	9	Subsurface	Benzene	71-43-2	2.41	0.02
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS9		Subsurface	Benzene	71-43-2	2.5	0.02
LP991	Arctic Cooperage	Area 5	10/28/1997	CHMW5	15	Subsurface	Benzene	71-43-2	2.7	0.02
LP003	Flint Hills	Area 3	10/10/1995	B2A	9	Subsurface	Benzene	71-43-2	2.7	0.02
LP019	Tesoro Terminal #1	Area 3	7/31/1998	PW19B	4.5	Subsurface	Benzene	71-43-2	2.8	0.02
LP003	Flint Hills	Area 3	10/6/1995	B18	9	Subsurface	Benzene	71-43-2	3	0.02
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	5	Subsurface	Benzene	71-43-2	3	0.02
LP003	Flint Hills	Area 3	8/19/2002	REX	3	Subsurface	Benzene	71-43-2	3.2	0.02
LP019	Tesoro Terminal #1	Area 3	7/31/1998	PW6	4.5	Subsurface	Benzene	71-43-2	3.3	0.02
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS5		Subsurface	Benzene	71-43-2	3.4	0.02
LP022	Municipal Light & Power	Area 5	4/4/1989	E7		Subsurface	Benzene	71-43-2	3.5	0.02
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS7	1	Subsurface	Benzene	71-43-2	3.5	0.02
LP003	Flint Hills	Area 3	1/28/1998	B7	6	Subsurface	Benzene	71-43-2	3.8	0.02
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Benzene	71-43-2	3.9	0.02
LP991	Arctic Cooperage	Area 5	9/20/1995	AC4		Subsurface	Benzene	71-43-2	4	0.02
LP991	Arctic Cooperage	Area 5	5/16/1996	301		Subsurface	Benzene	71-43-2	4	0.02
LP991	Arctic Cooperage	Area 5	8/5/1997	CHSB8	8	Subsurface	Benzene	71-43-2	4	0.02
LP003	Flint Hills	Area 3	10/9/1995	B13	15	Subsurface	Benzene	71-43-2	4.1	0.02
LP003	Flint Hills	Area 3	1/28/1998	B8	8	Subsurface	Benzene	71-43-2	4.23	0.02
LP003	Flint Hills	Area 3	1/28/1998	B4	8	Subsurface	Benzene	71-43-2	4.32	0.02
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS2	1	Subsurface	Benzene	71-43-2	4.8	0.02
LP019	Tesoro Terminal #1	Area 3	7/15/1989	TBD	4.5	Subsurface	Benzene	71-43-2	5	0.02
LP991	Arctic Cooperage	Area 5	10/25/2000	EX3		Subsurface	Benzene	71-43-2	5.1	0.02
RY065	Railyard	Area 2	6/7/1991	PIT1	7	Subsurface	Benzene	71-43-2	5.6	0.02
LP003	Flint Hills	Area 3	1/28/1998	B7	9	Subsurface	Benzene	71-43-2	5.76	0.02
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS7		Subsurface	Benzene	71-43-2	5.9	0.02
LP991	Arctic Cooperage	Area 5	5/16/1996	300		Subsurface	Benzene	71-43-2	6	0.02
LP991	Arctic Cooperage	Area 5	10/24/2000	EX2		Subsurface	Benzene	71-43-2	6.1	0.02
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	5	Subsurface	Benzene	71-43-2	6.5	0.02
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS997	1.5	Subsurface	Benzene	71-43-2	6.5	0.02

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP003	Flint Hills	Area 3	10/9/1995	B9	1	Subsurface	Benzene	71-43-2	6.6	0.02
LP003	Flint Hills	Area 3	1/28/1998	B8	6	Subsurface	Benzene	71-43-2	6.76	0.02
LP003	Flint Hills	Area 3	5/31/2002	RRTS17	3	Subsurface	Benzene	71-43-2	7	0.02
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Benzene	71-43-2	7	0.02
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG1		Subsurface	Benzene	71-43-2	7.5	0.02
LP003	Flint Hills	Area 3	4/1/1994	E46	4	Subsurface	Benzene	71-43-2	7.9	0.02
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS11		Subsurface	Benzene	71-43-2	8.3	0.02
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS12		Subsurface	Benzene	71-43-2	8.3	0.02
LP003	Flint Hills	Area 3	4/1/1994	E32	6	Subsurface	Benzene	71-43-2	9.1	0.02
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPB11	1	Subsurface	Benzene	71-43-2	9.7	0.02
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Benzene	71-43-2	10	0.02
LP991	Arctic Cooperage	Area 5	9/20/1995	AC5		Subsurface	Benzene	71-43-2	11	0.02
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	8	Subsurface	Benzene	71-43-2	11	0.02
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Benzene	71-43-2	11	0.02
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Benzene	71-43-2	12	0.02
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS22		Subsurface	Benzene	71-43-2	12	0.02
LP991	Arctic Cooperage	Area 5	5/16/1996	302		Subsurface	Benzene	71-43-2	13	0.02
LP991	Arctic Cooperage	Area 5	5/16/1996	303		Subsurface	Benzene	71-43-2	13	0.02
LP003	Flint Hills	Area 3	1/28/1998	B6	6	Subsurface	Benzene	71-43-2	13.4	0.02
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Benzene	71-43-2	14	0.02
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Benzene	71-43-2	14	0.02
LP019	Tesoro Terminal #1	Area 3	7/12/1989	TB4EX	7.5	Subsurface	Benzene	71-43-2	14	0.02
LP003	Flint Hills	Area 3	1/28/1998	B2	9	Subsurface	Benzene	71-43-2	14.1	0.02
LP003	Flint Hills	Area 3	1/28/1998	B3	8	Subsurface	Benzene	71-43-2	14.9	0.02
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	6	Subsurface	Benzene	71-43-2	15	0.02
LP003	Flint Hills	Area 3	4/1/1994	E33	4	Subsurface	Benzene	71-43-2	15	0.02
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB10	1	Subsurface	Benzene	71-43-2	16	0.02
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB6	2	Subsurface	Benzene	71-43-2	17	0.02
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPG2	1.5	Subsurface	Benzene	71-43-2	17	0.02
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Benzene	71-43-2	19	0.02
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Benzene	71-43-2	19	0.02
LP019	Tesoro Terminal #1	Area 3	7/15/1989	PWPL	4.5	Subsurface	Benzene	71-43-2	20	0.02
LP991	Arctic Cooperage	Area 5	8/5/1997	CHSB8	8	Subsurface	Benzene	71-43-2	21	0.02
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS8		Subsurface	Benzene	71-43-2	21	0.02
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Benzene	71-43-2	23	0.02
LP003	Flint Hills	Area 3	10/11/1995	MW1	8	Subsurface	Benzene	71-43-2	26	0.02
LP991	Arctic Cooperage	Area 5	5/16/1996	304		Subsurface	Benzene	71-43-2	27	0.02
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS13		Subsurface	Benzene	71-43-2	28	0.02
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Benzene	71-43-2	29	0.02
SS003	Flint Hills	Area 3	5/10/2002	SDS	4	Subsurface	Benzene	71-43-2	30	0.02
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB7	1.5	Subsurface	Benzene	71-43-2	31	0.02
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	6	Subsurface	Benzene	71-43-2	32	0.02
LP003	Flint Hills	Area 3	10/29/1990	S7	2	Subsurface	Benzene	71-43-2	42	0.02
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	8	Subsurface	Benzene	71-43-2	49	0.02

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Benzene	71-43-2	50	0.02
LP019	Tesoro Terminal #1	Area 3	7/30/1998	PW19B	4	Subsurface	Benzene	71-43-2	53	0.02
LP003	Flint Hills	Area 3	8/19/2002	PLOP1	6.5	Subsurface	Benzene	71-43-2	54	0.02
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	8	Subsurface	Benzene	71-43-2	55	0.02
LP003	Flint Hills	Area 3	5/31/2002	RRTS	3	Subsurface	Benzene	71-43-2	57	0.02
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Benzene	71-43-2	63	0.02
LP003	Flint Hills	Area 3	8/19/2002	PLOP2	2	Subsurface	Benzene	71-43-2	74	0.02
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS16	1	Subsurface	Benzene	71-43-2	77	0.02
LP003	Flint Hills	Area 3	5/31/2002	RRTS	3	Subsurface	Benzene	71-43-2	100	0.02
LP003	Flint Hills	Area 3	5/30/2002	RRTS9	2	Subsurface	Benzene	71-43-2	160	0.02
LP019	Tesoro Terminal #1	Area 3	7/31/1998	PW7	5	Subsurface	Benzene	71-43-2	170	0.02
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS8	2	Subsurface	Benzene	71-43-2	210	0.02
LP003	Flint Hills	Area 3	5/30/2002	RRTS1	3	Subsurface	Benzene	71-43-2	260	0.02
LP003	Flint Hills	Area 3	10/29/1990	S6	3	Subsurface	Benzene	71-43-2	300	0.02
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Benzene	71-43-2	330	0.02
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB6	0.5	Surface	Benzene	71-43-2	590	0.02
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPG1	0	Surface	Benzene	71-43-2	590	0.02
LP003	Flint Hills	Area 3	10/29/1990	S5	3	Subsurface	Benzene	71-43-2	970	0.02
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG3		Subsurface	Benzene	71-43-2	7200	0.02
LP120	KAPP	Area 6	10/7/1998	145I		Subsurface	Benzo(a)pyrene	50-32-8	3.84	3
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Cadmium	7440-43-9	5.1	5
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Cadmium	7440-43-9	5.25	5
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Cadmium	7440-43-9	5.5	5
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Cadmium	7440-43-9	5.65	5
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Cadmium	7440-43-9	7.7	5
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Cadmium	7440-43-9	7.8	5
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Cadmium	7440-43-9	8.25	5
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Cadmium	7440-43-9	8.55	5
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Cadmium	7440-43-9	8.7	5
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Cadmium	7440-43-9	9.6	5
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Cadmium	7440-43-9	10	5
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Cadmium	7440-43-9	10.4	5
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Cadmium	7440-43-9	13.2	5
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Cadmium	7440-43-9	14.9	5
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Cadmium	7440-43-9	17.2	5
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Cadmium	7440-43-9	20.1	5
LP127	Post Road Company - Tenancy	Area 5	8/31/1999	B5	11.5	Subsurface	Cadmium	7440-43-9	38.5	5
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Cadmium	7440-43-9	42.3	5
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Cadmium	7440-43-9	89	5
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Cadmium	7440-43-9	128	5
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Cadmium	7440-43-9	745	5
LP991	Arctic Cooperage	Area 5	6/4/1996	SS3		Subsurface	Chromium	7440-47-3	27	26
LP003	Flint Hills	Area 3	3/26/1992	B13	6	Subsurface	Chromium	7440-47-3	27	26
LP003	Flint Hills	Area 3	2/26/1992	B18	4	Subsurface	Chromium	7440-47-3	27	26

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP065	Princess Tours	Area 2	2/7/2001	4MW	4	Subsurface	Chromium	7440-47-3	27.4	26
LP991	Arctic Cooperage	Area 5	12/16/1997	BL4	12	Subsurface	Chromium	7440-47-3	28	26
LP065	Princess Tours	Area 2	6/2/1992	SB4	6	Subsurface	Chromium	7440-47-3	28	26
LP127	Post Road Company - Tenancy	Area 5	8/31/1999	B2	11.5	Subsurface	Chromium	7440-47-3	28.2	26
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Chromium	7440-47-3	28.2	26
LP120	KAPP	Area 6	4/4/2000	B2	7	Subsurface	Chromium	7440-47-3	28.9	26
LP991	Arctic Cooperage	Area 5	12/15/1997	BL3	40	Subsurface	Chromium	7440-47-3	29	26
LP991	Arctic Cooperage	Area 5	5/29/1996	SB5	7.5	Subsurface	Chromium	7440-47-3	29	26
LP991	Arctic Cooperage	Area 5	5/28/1996	SB7	15	Subsurface	Chromium	7440-47-3	29	26
LP991	Arctic Cooperage	Area 5	5/29/1996	SB8	12.5	Subsurface	Chromium	7440-47-3	29	26
LP003	Flint Hills	Area 3	10/9/1995	B7B	6.5	Subsurface	Chromium	7440-47-3	29	26
LP031	Keystone Services	Area 4	7/16/1991	1	9	Subsurface	Chromium	7440-47-3	29	26
RY065	Railyard	Area 2	2/7/2001	7MW	14.5	Subsurface	Chromium	7440-47-3	29	26
RY065	Railyard	Area 2	11/22/1994	PIT1	1.5	Subsurface	Chromium	7440-47-3	29	26
LP127	Post Road Company - Tenancy	Area 5	8/31/1999	B1	16.5	Subsurface	Chromium	7440-47-3	29.1	26
LP024	Prescott Equipment	Area 4	6/11/1999	PECI29	2	Subsurface	Chromium	7440-47-3	29.1	26
LP127	Post Road Company - Tenancy	Area 5	8/31/1999	B4	11.5	Subsurface	Chromium	7440-47-3	29.8	26
LP991	Arctic Cooperage	Area 5	5/30/1996	SB11	5	Subsurface	Chromium	7440-47-3	30	26
LP991	Arctic Cooperage	Area 5	5/29/1996	SB3	2.5	Subsurface	Chromium	7440-47-3	30	26
LP991	Arctic Cooperage	Area 5	5/29/1996	SB3	5	Subsurface	Chromium	7440-47-3	30	26
LP991	Arctic Cooperage	Area 5	5/28/1996	SB7	12.5	Subsurface	Chromium	7440-47-3	30	26
LP003	Flint Hills	Area 3	2/26/1992	B20	4	Subsurface	Chromium	7440-47-3	30	26
LP127	Post Road Company - Tenancy	Area 5	8/31/1999	B3	4	Subsurface	Chromium	7440-47-3	30	26
LP065	Princess Tours	Area 2	6/3/1992	GR1		Subsurface	Chromium	7440-47-3	30	26
RY065	Railyard	Area 2	10/2/2003	USTEX11		Subsurface	Chromium	7440-47-3	30	26
LP120	KAPP	Area 6	4/4/2000	B2	4	Subsurface	Chromium	7440-47-3	30.2	26
RY065	Railyard	Area 2	9/16/2003	USTEX1		Subsurface	Chromium	7440-47-3	30.2	26
RY065	Railyard	Area 2	9/16/2003	SP3		Subsurface	Chromium	7440-47-3	30.2	26
RY065	Railyard	Area 2	9/16/2003	SP7		Subsurface	Chromium	7440-47-3	30.3	26
RY065	Railyard	Area 2	9/16/2003	EX4		Subsurface	Chromium	7440-47-3	30.5	26
LP125	L&J Cabs - CPR Automotive	Area 4	9/22/1989	15	8	Subsurface	Chromium	7440-47-3	30.6	26
LP024	Prescott Equipment	Area 4	9/17/1999	COMPOSITE		Subsurface	Chromium	7440-47-3	30.6	26
RY065	Railyard	Area 2	9/16/2003	SP5		Subsurface	Chromium	7440-47-3	30.8	26
LP131	Alaska Sheetmetal	Area 6	12/6/1995	S4	2	Subsurface	Chromium	7440-47-3	31	26
LP991	Arctic Cooperage	Area 5	5/30/1996	SB4	18	Subsurface	Chromium	7440-47-3	31	26
LP991	Arctic Cooperage	Area 5	6/4/1996	SS12		Subsurface	Chromium	7440-47-3	31	26
LP991	Arctic Cooperage	Area 5	8/30/1996	SS12		Subsurface	Chromium	7440-47-3	31	26
LP991	Arctic Cooperage	Area 5	6/4/1996	SS13		Subsurface	Chromium	7440-47-3	31	26
LP991	Arctic Cooperage	Area 5	8/30/1996	SS13		Subsurface	Chromium	7440-47-3	31	26
LP003	Flint Hills	Area 3	3/31/1992	16MW	4	Subsurface	Chromium	7440-47-3	31	26
LP003	Flint Hills	Area 3	2/26/1992	B28	4	Subsurface	Chromium	7440-47-3	31	26
LP065	Princess Tours	Area 2	6/2/1992	SB5	21.5	Subsurface	Chromium	7440-47-3	31	26
RY065	Railyard	Area 2	11/22/1994	PIT1	1.5	Subsurface	Chromium	7440-47-3	31	26
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Chromium	7440-47-3	31	26

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
RY065	Railyard	Area 2	9/16/2003	SP8		Subsurface	Chromium	7440-47-3	31.3	26
RY065	Railyard	Area 2	9/16/2003	USTEX1		Subsurface	Chromium	7440-47-3	31.4	26
RY065	Railyard	Area 2	10/2/2003	USTEX11		Subsurface	Chromium	7440-47-3	31.7	26
RY065	Railyard	Area 2	9/16/2003	SP2		Subsurface	Chromium	7440-47-3	31.9	26
LP991	Arctic Cooperage	Area 5	12/15/1997	BL2	28	Subsurface	Chromium	7440-47-3	32	26
LP991	Arctic Cooperage	Area 5	5/28/1996	MW1	10	Subsurface	Chromium	7440-47-3	32	26
LP991	Arctic Cooperage	Area 5	5/29/1996	SB6	8	Subsurface	Chromium	7440-47-3	32	26
LP003	Flint Hills	Area 3	3/31/1992	14MW	9	Subsurface	Chromium	7440-47-3	32	26
LP024	Prescott Equipment	Area 4	6/11/1999	PEC	2	Subsurface	Chromium	7440-47-3	32.1	26
LP024	Prescott Equipment	Area 4	6/11/1999	I51	2	Subsurface	Chromium	7440-47-3	32.1	26
RY065	Railyard	Area 2	9/16/2003	SP6		Subsurface	Chromium	7440-47-3	32.2	26
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Chromium	7440-47-3	32.8	26
LP003	Flint Hills	Area 3	10/10/1995	B17	4	Subsurface	Chromium	7440-47-3	33	26
LP003	Flint Hills	Area 3	10/11/1995	MW2	4	Subsurface	Chromium	7440-47-3	33	26
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Chromium	7440-47-3	33.1	26
LP137	Laidlaw Transit	Area 5	10/11/1990	MT		Subsurface	Chromium	7440-47-3	33.3	26
LP137	Laidlaw Transit	Area 5	10/10/1990	08E		Subsurface	Chromium	7440-47-3	33.4	26
RY065	Railyard	Area 2	9/16/2003	USTSP1		Subsurface	Chromium	7440-47-3	33.4	26
LP991	Arctic Cooperage	Area 5	5/30/1996	SB11	2.5	Subsurface	Chromium	7440-47-3	34	26
LP991	Arctic Cooperage	Area 5	5/29/1996	SB5	2.5	Subsurface	Chromium	7440-47-3	34	26
LP003	Flint Hills	Area 3	10/9/1995	B12	6.5	Subsurface	Chromium	7440-47-3	34	26
LP003	Flint Hills	Area 3	3/31/1992	16MW	4	Subsurface	Chromium	7440-47-3	34	26
LP003	Flint Hills	Area 3	10/9/1995	B9	4	Subsurface	Chromium	7440-47-3	34	26
LP024	Prescott Equipment	Area 4	8/12/1998	B3	7	Subsurface	Chromium	7440-47-3	34	26
RY065	Railyard	Area 2	9/16/2003	EX6		Subsurface	Chromium	7440-47-3	34	26
RY065	Railyard	Area 2	9/16/2003	EX9		Subsurface	Chromium	7440-47-3	34.4	26
LP120	KAPP	Area 6	4/4/2000	B3	4	Subsurface	Chromium	7440-47-3	34.6	26
LP120	KAPP	Area 6	4/4/2000	B5	3	Subsurface	Chromium	7440-47-3	34.6	26
LP120	KAPP	Area 6	4/4/2000	B4	4	Subsurface	Chromium	7440-47-3	34.9	26
LP991	Arctic Cooperage	Area 5	12/15/1997	BL2	42	Subsurface	Chromium	7440-47-3	35	26
LP003	Flint Hills	Area 3	2/25/1992	B6	4	Subsurface	Chromium	7440-47-3	35	26
LP003	Flint Hills	Area 3	2/25/1992	B7	4	Subsurface	Chromium	7440-47-3	35	26
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Chromium	7440-47-3	35.3	26
RY065	Railyard	Area 2	9/16/2003	EX3		Subsurface	Chromium	7440-47-3	35.4	26
RY065	Railyard	Area 2	9/16/2003	EX8		Subsurface	Chromium	7440-47-3	35.6	26
LP991	Arctic Cooperage	Area 5	12/16/1997	BL5	18	Subsurface	Chromium	7440-47-3	36	26
LP003	Flint Hills	Area 3	3/31/1992	15MW	6	Subsurface	Chromium	7440-47-3	36	26
LP137	Laidlaw Transit	Area 5	10/10/1990	11BN		Subsurface	Chromium	7440-47-3	36.5	26
LP120	KAPP	Area 6	4/4/2000	B4	12	Subsurface	Chromium	7440-47-3	36.8	26
LP137	Laidlaw Transit	Area 5	10/10/1990	09N		Subsurface	Chromium	7440-47-3	36.8	26
LP991	Arctic Cooperage	Area 5	12/12/1997	BL1	47	Subsurface	Chromium	7440-47-3	37	26
LP991	Arctic Cooperage	Area 5	5/30/1996	SB10	2.5	Subsurface	Chromium	7440-47-3	37	26
LP991	Arctic Cooperage	Area 5	6/4/1996	SS4		Subsurface	Chromium	7440-47-3	37	26
LP003	Flint Hills	Area 3	10/6/1995	B14	4	Subsurface	Chromium	7440-47-3	37	26

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
RY065	Railyard	Area 2	11/22/1994	PIT1	1.5	Subsurface	Chromium	7440-47-3	37	26
RY065	Railyard	Area 2	9/16/2003	SP4		Subsurface	Chromium	7440-47-3	37.3	26
LP991	Arctic Cooperage	Area 5	5/30/1996	MW3	5	Subsurface	Chromium	7440-47-3	38	26
LP991	Arctic Cooperage	Area 5	5/28/1996	SB2	5	Subsurface	Chromium	7440-47-3	38	26
LP003	Flint Hills	Area 3	10/9/1995	B13	14.5	Subsurface	Chromium	7440-47-3	38	26
RY065	Railyard	Area 2	2/7/2001	6MW	4	Subsurface	Chromium	7440-47-3	38.1	26
LP120	KAPP	Area 6	4/4/2000	B3	10.5	Subsurface	Chromium	7440-47-3	38.4	26
LP120	KAPP	Area 6	10/7/1998	145L		Subsurface	Chromium	7440-47-3	38.8	26
LP991	Arctic Cooperage	Area 5	5/28/1996	MW1	5	Subsurface	Chromium	7440-47-3	39	26
RY065	Railyard	Area 2	2/7/2001	8MW	6.5	Subsurface	Chromium	7440-47-3	39.3	26
RY065	Railyard	Area 2	2/7/2001	10MW	4.2	Subsurface	Chromium	7440-47-3	39.8	26
LP003	Flint Hills	Area 3	10/6/1995	B10	4	Subsurface	Chromium	7440-47-3	40	26
LP065	Princess Tours	Area 2	6/3/1992	SB6	26.5	Subsurface	Chromium	7440-47-3	40	26
RY065	Railyard	Area 2	2/7/2001	9MW	6.5	Subsurface	Chromium	7440-47-3	40.2	26
RY065	Railyard	Area 2	9/16/2003	EX10		Subsurface	Chromium	7440-47-3	40.6	26
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Chromium	7440-47-3	40.9	26
LP003	Flint Hills	Area 3	10/10/1995	B5	6.5	Subsurface	Chromium	7440-47-3	41	26
RY065	Railyard	Area 2	9/15/2004	SP30	1	Subsurface	Chromium	7440-47-3	41	26
RY065	Railyard	Area 2	9/16/2003	EX5		Subsurface	Chromium	7440-47-3	41.2	26
LP120	KAPP	Area 6	10/6/1998	145K		Subsurface	Chromium	7440-47-3	41.3	26
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Chromium	7440-47-3	41.4	26
RY065	Railyard	Area 2	10/2/2003	EX13		Subsurface	Chromium	7440-47-3	41.6	26
LP065	Princess Tours	Area 2	5/30/1992	SB3	11.5	Subsurface	Chromium	7440-47-3	42	26
LP120	KAPP	Area 6	10/5/1998	145F		Subsurface	Chromium	7440-47-3	42.1	26
LP137	Laidlaw Transit	Area 5	10/10/1990	10W		Subsurface	Chromium	7440-47-3	42.9	26
LP991	Arctic Cooperage	Area 5	5/29/1996	SB9	2.5	Subsurface	Chromium	7440-47-3	43	26
LP003	Flint Hills	Area 3	3/31/1992	16MW	6	Subsurface	Chromium	7440-47-3	43	26
LP003	Flint Hills	Area 3	10/10/1995	B5A	6.5	Subsurface	Chromium	7440-47-3	43	26
LP991	Arctic Cooperage	Area 5	5/30/1996	MW3	2.5	Subsurface	Chromium	7440-47-3	44	26
LP003	Flint Hills	Area 3	10/10/1995	B2A	6.5	Subsurface	Chromium	7440-47-3	44	26
LP120	KAPP	Area 6	10/5/1998	145F		Subsurface	Chromium	7440-47-3	44.5	26
LP137	Laidlaw Transit	Area 5	10/10/1990	12BS		Subsurface	Chromium	7440-47-3	44.9	26
LP120	KAPP	Area 6	10/7/1998	145Q		Subsurface	Chromium	7440-47-3	45.6	26
LP120	KAPP	Area 6	10/7/1998	145L		Subsurface	Chromium	7440-47-3	46.1	26
LP120	KAPP	Area 6	10/5/1998	145N		Subsurface	Chromium	7440-47-3	46.2	26
LP120	KAPP	Area 6	10/5/1998	145S		Subsurface	Chromium	7440-47-3	46.4	26
LP120	KAPP	Area 6	10/6/1998	145P		Subsurface	Chromium	7440-47-3	46.7	26
LP003	Flint Hills	Area 3	10/10/1995	B6B	4	Subsurface	Chromium	7440-47-3	47	26
LP120	KAPP	Area 6	10/5/1998	145U		Subsurface	Chromium	7440-47-3	47.8	26
LP991	Arctic Cooperage	Area 5	6/4/1996	SS2		Subsurface	Chromium	7440-47-3	48	26
LP120	KAPP	Area 6	10/7/1998	145I		Subsurface	Chromium	7440-47-3	48	26
LP120	KAPP	Area 6	10/5/1998	145U		Subsurface	Chromium	7440-47-3	48.1	26
LP120	KAPP	Area 6	10/6/1998	145R		Subsurface	Chromium	7440-47-3	48.6	26
LP003	Flint Hills	Area 3	10/11/1995	MW1	9	Subsurface	Chromium	7440-47-3	49	26

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP003	Flint Hills	Area 3	10/10/1995	B6B	4	Subsurface	Chromium	7440-47-3	49	26
LP120	KAPP	Area 6	10/7/1998	145L		Subsurface	Chromium	7440-47-3	49	26
LP991	Arctic Cooperage	Area 5	6/4/1996	SS6		Subsurface	Chromium	7440-47-3	50	26
LP120	KAPP	Area 6	10/6/1998	145P		Subsurface	Chromium	7440-47-3	51.1	26
LP120	KAPP	Area 6	10/6/1998	145R		Subsurface	Chromium	7440-47-3	51.4	26
LP120	KAPP	Area 6	10/6/1998	145R		Subsurface	Chromium	7440-47-3	51.8	26
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Chromium	7440-47-3	52	26
LP120	KAPP	Area 6	10/6/1998	145J		Subsurface	Chromium	7440-47-3	52.4	26
LP120	KAPP	Area 6	10/5/1998	145N		Subsurface	Chromium	7440-47-3	52.7	26
LP120	KAPP	Area 6	10/7/1998	145M		Subsurface	Chromium	7440-47-3	53.8	26
LP120	KAPP	Area 6	10/7/1998	145I		Subsurface	Chromium	7440-47-3	55.7	26
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Chromium	7440-47-3	56	26
LP120	KAPP	Area 6	10/7/1998	145X	1	Subsurface	Chromium	7440-47-3	56.5	26
LP003	Flint Hills	Area 3	10/9/1995	B11	6.5	Subsurface	Chromium	7440-47-3	57	26
LP120	KAPP	Area 6	10/7/1998	145M		Subsurface	Chromium	7440-47-3	57.2	26
RY065	Railyard	Area 2	10/8/1998	PIT1		Subsurface	Chromium	7440-47-3	57.9	26
RY065	Railyard	Area 2	9/15/2004	SP12	1	Subsurface	Chromium	7440-47-3	58	26
LP024	Prescott Equipment	Area 4	6/11/1999	PECI28	2	Subsurface	Chromium	7440-47-3	58.6	26
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Chromium	7440-47-3	59	26
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Chromium	7440-47-3	59	26
LP120	KAPP	Area 6	10/5/1998	145F		Subsurface	Chromium	7440-47-3	60	26
LP120	KAPP	Area 6	10/6/1998	145P		Subsurface	Chromium	7440-47-3	60.3	26
LP120	KAPP	Area 6	10/7/1998	145Q		Subsurface	Chromium	7440-47-3	60.4	26
LP024	Prescott Equipment	Area 4	8/12/1998	SS2	0.5	Surface	Chromium	7440-47-3	61.9	26
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Chromium	7440-47-3	62	26
LP120	KAPP	Area 6	10/5/1998	145V		Subsurface	Chromium	7440-47-3	62.1	26
LP120	KAPP	Area 6	10/7/1998	145I		Subsurface	Chromium	7440-47-3	64	26
LP024	Prescott Equipment	Area 4	8/12/1998	SS2	0.5	Surface	Chromium	7440-47-3	64	26
LP991	Arctic Cooperage	Area 5	5/29/1996	SB9	5	Subsurface	Chromium	7440-47-3	65	26
LP024	Prescott Equipment	Area 4	8/12/1998	SS2	0.5	Surface	Chromium	7440-47-3	65.9	26
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Chromium	7440-47-3	66	26
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Chromium	7440-47-3	68	26
RY065	Railyard	Area 2	9/15/2004	SP10	1	Subsurface	Chromium	7440-47-3	68	26
LP120	KAPP	Area 6	10/5/1998	145T		Subsurface	Chromium	7440-47-3	68.2	26
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Chromium	7440-47-3	72.5	26
LP120	KAPP	Area 6	10/7/1998	145M		Subsurface	Chromium	7440-47-3	75.6	26
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Chromium	7440-47-3	76	26
LP120	KAPP	Area 6	10/7/1998	145D		Subsurface	Chromium	7440-47-3	76.8	26
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Chromium	7440-47-3	87.5	26
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Chromium	7440-47-3	91.5	26
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Chromium	7440-47-3	98.5	26
LP120	KAPP	Area 6	10/5/1998	145N		Subsurface	Chromium	7440-47-3	98.9	26
LP120	KAPP	Area 6	10/7/1998	145Q		Subsurface	Chromium	7440-47-3	99.3	26
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Chromium	7440-47-3	110	26

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
RY065	Railyard	Area 2	9/16/2003	EX7		Subsurface	Chromium	7440-47-3	132	26
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Chromium	7440-47-3	177	26
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Chromium	7440-47-3	181	26
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Chromium	7440-47-3	183	26
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Chromium	7440-47-3	183	26
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Chromium	7440-47-3	198	26
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Chromium	7440-47-3	220	26
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Chromium	7440-47-3	238	26
LP120	KAPP	Area 6	10/7/1998	145E		Subsurface	Chromium	7440-47-3	243	26
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Chromium	7440-47-3	407	26
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Chromium	7440-47-3	1570	26
LP991	Arctic Cooperage	Area 5	10/24/2000	EX2		Subsurface	cis-1,2-Dichloroethene	156-59-2	0.21	0.2
LP991	Arctic Cooperage	Area 5	10/19/2000	EX4		Subsurface	cis-1,2-Dichloroethene	156-59-2	0.27	0.2
RY065	Railyard	Area 2	8/20/2004	SDE1	0.5	Surface	cis-1,2-Dichloroethene	156-59-2	0.45	0.2
RY065	Railyard	Area 2	8/20/2004	SDE1	0.5	Surface	cis-1,2-Dichloroethene	156-59-2	0.46	0.2
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	6	Subsurface	cis-1,2-Dichloroethene	156-59-2	1.2	0.2
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	cis-1,2-Dichloroethene	156-59-2	4	0.2
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	cis-1,2-Dichloroethene	156-59-2	5	0.2
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Copper	7440-50-8	7700	7000
LP002	Consolidated Freightways	Area 1	8/15/1989	MW1	2	Subsurface	Diesel Range Hydrocarbons	DRO	260	250
LP002	Consolidated Freightways	Area 1	8/15/1989	S1	2	Subsurface	Diesel Range Hydrocarbons	DRO	260	250
LP003	Flint Hills	Area 3	5/23/2002	N60	6.5	Subsurface	Diesel Range Hydrocarbons	DRO	260	250
LP065	Princess Tours	Area 2	5/29/1992	SB1	16.5	Subsurface	Diesel Range Hydrocarbons	DRO	260	250
LP019	Tesoro Terminal #1	Area 3	10/28/1991	GC2	0.5	Surface	Diesel Range Hydrocarbons	DRO	260	250
LP049	Wrightway Auto Carriers	Area 6	10/16/1992	UST1	9	Subsurface	Diesel Range Hydrocarbons	DRO	260	250
LP060	North Star Terminal	Area 3	5/31/1998	SB5	7	Subsurface	Diesel Range Hydrocarbons	DRO	261	250
LP991	Arctic Cooperage	Area 5	12/4/1997	CHMW1A	18	Subsurface	Diesel Range Hydrocarbons	DRO	266	250
LP003	Flint Hills	Area 3	7/25/2002	P2	6.5	Subsurface	Diesel Range Hydrocarbons	DRO	270	250
LP003	Flint Hills	Area 3	5/9/2002	PC3	6	Subsurface	Diesel Range Hydrocarbons	DRO	270	250
LP003	Flint Hills	Area 3	4/1/1994	W60	4	Subsurface	Diesel Range Hydrocarbons	DRO	270	250
LP127	Post Road Company - Tenancy	Area 5	8/25/1992	SS24		Subsurface	Diesel Range Hydrocarbons	DRO	270	250
RY065	Railyard	Area 2	6/1/1992	MW2	8	Subsurface	Diesel Range Hydrocarbons	DRO	270	250
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG4		Subsurface	Diesel Range Hydrocarbons	DRO	270	250
LP991	Arctic Cooperage	Area 5	5/28/1996	SB7	7.5	Subsurface	Diesel Range Hydrocarbons	DRO	279	250
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	2	Subsurface	Diesel Range Hydrocarbons	DRO	280	250
LP003	Flint Hills	Area 3	10/10/1995	MW3	1	Subsurface	Diesel Range Hydrocarbons	DRO	280	250
LP003	Flint Hills	Area 3	4/1/1994	W37	6	Subsurface	Diesel Range Hydrocarbons	DRO	280	250
LP003	Flint Hills	Area 3	4/1/1994	W9	4	Subsurface	Diesel Range Hydrocarbons	DRO	280	250
LP003	Flint Hills	Area 3	1/28/1998	B13	8	Subsurface	Diesel Range Hydrocarbons	DRO	282	250
LP991	Arctic Cooperage	Area 5	12/5/1997	CHMW5A	15	Subsurface	Diesel Range Hydrocarbons	DRO	289	250
LP003	Flint Hills	Area 3	4/1/1994	W1	4	Subsurface	Diesel Range Hydrocarbons	DRO	290	250
LP003	Flint Hills	Area 3	4/1/1994	W3	4	Subsurface	Diesel Range Hydrocarbons	DRO	290	250
LP022	Municipal Light & Power	Area 5	9/1/1994	IW15	9	Subsurface	Diesel Range Hydrocarbons	DRO	290	250
LP991	Arctic Cooperage	Area 5	8/25/1997	CHMW1	15	Subsurface	Diesel Range Hydrocarbons	DRO	291	250

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP120	KAPP	Area 6	1/1/1998	145D	0.5	Surface	Diesel Range Hydrocarbons	DRO	297	250
LP991	Arctic Cooperage	Area 5	11/13/1997	TR1	2	Subsurface	Diesel Range Hydrocarbons	DRO	300	250
LP003	Flint Hills	Area 3	10/29/2002	GPS1	2	Subsurface	Diesel Range Hydrocarbons	DRO	300	250
LP003	Flint Hills	Area 3	6/6/2002	GPS3	2	Subsurface	Diesel Range Hydrocarbons	DRO	300	250
LP003	Flint Hills	Area 3	4/1/1994	E4	4	Subsurface	Diesel Range Hydrocarbons	DRO	300	250
LP003	Flint Hills	Area 3	4/1/1994	W4	6	Subsurface	Diesel Range Hydrocarbons	DRO	300	250
LP024	Prescott Equipment	Area 4	9/17/1999	P917	2	Subsurface	Diesel Range Hydrocarbons	DRO	300	250
LP024	Prescott Equipment	Area 4	9/17/1999	P5	2	Subsurface	Diesel Range Hydrocarbons	DRO	300	250
LP065	Princess Tours	Area 2	5/6/1994	SB7	3	Subsurface	Diesel Range Hydrocarbons	DRO	301	250
LP065	Princess Tours	Area 2	5/6/1994	SB4	15.5	Subsurface	Diesel Range Hydrocarbons	DRO	304	250
LP991	Arctic Cooperage	Area 5	12/9/1997	BASE2	6	Subsurface	Diesel Range Hydrocarbons	DRO	305	250
LP137	Laidlaw Transit	Area 5	11/23/1998	CHMWE4	16	Subsurface	Diesel Range Hydrocarbons	DRO	309	250
LP065	Princess Tours	Area 2	5/2/1994	OOWSS	1.5	Subsurface	Diesel Range Hydrocarbons	DRO	309	250
LP065	Princess Tours	Area 2	5/2/1994	OOWSE	2	Subsurface	Diesel Range Hydrocarbons	DRO	309	250
LP003	Flint Hills	Area 3	4/1/1994	W40	6	Subsurface	Diesel Range Hydrocarbons	DRO	310	250
LP022	Municipal Light & Power	Area 5	7/8/1994	SBG9	9	Subsurface	Diesel Range Hydrocarbons	DRO	310	250
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS15		Subsurface	Diesel Range Hydrocarbons	DRO	310	250
LP991	Arctic Cooperage	Area 5	5/30/1996	SB10	5	Subsurface	Diesel Range Hydrocarbons	DRO	317	250
LP991	Arctic Cooperage	Area 5	12/3/1997	CHMW4A	4	Subsurface	Diesel Range Hydrocarbons	DRO	318	250
LP991	Arctic Cooperage	Area 5	5/16/1996	300		Subsurface	Diesel Range Hydrocarbons	DRO	320	250
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Diesel Range Hydrocarbons	DRO	320	250
LP003	Flint Hills	Area 3	9/25/1992	SP20S3	2	Subsurface	Diesel Range Hydrocarbons	DRO	320	250
LP065	Princess Tours	Area 2	5/6/1994	SB3	2	Subsurface	Diesel Range Hydrocarbons	DRO	320	250
LP055	Altex Distributing	Area 5	3/22/1990	BH4	11	Subsurface	Diesel Range Hydrocarbons	DRO	321	250
LP991	Arctic Cooperage	Area 5	6/4/1996	SS3		Subsurface	Diesel Range Hydrocarbons	DRO	322	250
LP022	Municipal Light & Power	Area 5	7/8/1994	SBPZG2		Subsurface	Diesel Range Hydrocarbons	DRO	325	250
LP065	Princess Tours	Area 2	6/2/1992	SB5	16.5	Subsurface	Diesel Range Hydrocarbons	DRO	325	250
LP003	Flint Hills	Area 3	9/26/1992	SP22S3	2	Subsurface	Diesel Range Hydrocarbons	DRO	330	250
LP003	Flint Hills	Area 3	4/1/1994	W60	10	Subsurface	Diesel Range Hydrocarbons	DRO	330	250
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS10	4	Subsurface	Diesel Range Hydrocarbons	DRO	330	250
LP003	Flint Hills	Area 3	1/28/1998	B4	6	Subsurface	Diesel Range Hydrocarbons	DRO	331	250
LP991	Arctic Cooperage	Area 5	5/29/1996	SB9	2.5	Subsurface	Diesel Range Hydrocarbons	DRO	335	250
LP024	Prescott Equipment	Area 4	8/11/1999	PEC	2	Subsurface	Diesel Range Hydrocarbons	DRO	338	250
LP024	Prescott Equipment	Area 4	8/11/1999	15	2	Subsurface	Diesel Range Hydrocarbons	DRO	338	250
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	16	Subsurface	Diesel Range Hydrocarbons	DRO	340	250
LP003	Flint Hills	Area 3	4/1/1994	W40	6	Subsurface	Diesel Range Hydrocarbons	DRO	340	250
LP003	Flint Hills	Area 3	9/13/2001	TP2	2	Subsurface	Diesel Range Hydrocarbons	DRO	342	250
LP016	Chevron USA Pipeline	Area 3	10/10/2003	TW2		Subsurface	Diesel Range Hydrocarbons	DRO	360	250
LP003	Flint Hills	Area 3	6/6/2002	GPS3	2	Subsurface	Diesel Range Hydrocarbons	DRO	360	250
LP003	Flint Hills	Area 3	8/19/2002	PLOP1	6.5	Subsurface	Diesel Range Hydrocarbons	DRO	360	250
LP003	Flint Hills	Area 3	4/1/1994	E88	4	Subsurface	Diesel Range Hydrocarbons	DRO	360	250
LP003	Flint Hills	Area 3	4/1/1994	W40	5	Subsurface	Diesel Range Hydrocarbons	DRO	360	250
LP016	Chevron USA Pipeline	Area 3	8/21/2000	SP1		Subsurface	Diesel Range Hydrocarbons	DRO	367	250
RY065	Railyard	Area 2	10/1/1997	PIT1	4	Subsurface	Diesel Range Hydrocarbons	DRO	369	250

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP003	Flint Hills	Area 3	9/6/2002	906021	2	Subsurface	Diesel Range Hydrocarbons	DRO	370	250
LP127	Post Road Company - Tenancy	Area 5	8/25/1992	SS22		Subsurface	Diesel Range Hydrocarbons	DRO	370	250
LP083	Pruhs Corp.	Area 4	10/14/2003	BASE2		Subsurface	Diesel Range Hydrocarbons	DRO	370	250
LP083	Pruhs Corp.	Area 4	10/14/2003	BASE3		Subsurface	Diesel Range Hydrocarbons	DRO	370	250
LP019	Tesoro Terminal #1	Area 3	7/13/1989	TBC	6.5	Subsurface	Diesel Range Hydrocarbons	DRO	370	250
RY065	Railyard	Area 2	9/16/2003	EX6		Subsurface	Diesel Range Hydrocarbons	DRO	375	250
LP003	Flint Hills	Area 3	4/1/1994	E37	4	Subsurface	Diesel Range Hydrocarbons	DRO	377	250
LP016	Chevron USA Pipeline	Area 3	10/10/2003	TW3		Subsurface	Diesel Range Hydrocarbons	DRO	380	250
LP003	Flint Hills	Area 3	9/25/1992	SP15S4	2	Subsurface	Diesel Range Hydrocarbons	DRO	380	250
LP003	Flint Hills	Area 3	4/1/1994	W10	10	Subsurface	Diesel Range Hydrocarbons	DRO	380	250
LP003	Flint Hills	Area 3	4/1/1994	W16	7	Subsurface	Diesel Range Hydrocarbons	DRO	380	250
LP022	Municipal Light & Power	Area 5	5/31/1996	SB21	5	Subsurface	Diesel Range Hydrocarbons	DRO	380	250
LP019	Tesoro Terminal #1	Area 3	6/7/1999	ESS18		Subsurface	Diesel Range Hydrocarbons	DRO	380	250
LP991	Arctic Cooperage	Area 5	8/25/1997	CHMW1	12	Subsurface	Diesel Range Hydrocarbons	DRO	385	250
LP137	Laidlaw Transit	Area 5	10/11/1990	G19BW		Subsurface	Diesel Range Hydrocarbons	DRO	390	250
LP016	Chevron USA Pipeline	Area 3	8/22/2000	SP2		Subsurface	Diesel Range Hydrocarbons	DRO	395	250
LP016	Chevron USA Pipeline	Area 3	8/21/2000	SP1		Subsurface	Diesel Range Hydrocarbons	DRO	398	250
LP991	Arctic Cooperage	Area 5	12/3/1997	CHMW4A	6	Subsurface	Diesel Range Hydrocarbons	DRO	400	250
LP003	Flint Hills	Area 3	3/26/1992	B10	4	Subsurface	Diesel Range Hydrocarbons	DRO	400	250
LP003	Flint Hills	Area 3	10/10/1995	B2A	9	Subsurface	Diesel Range Hydrocarbons	DRO	400	250
LP022	Municipal Light & Power	Area 5	7/8/1994	SB7	2	Subsurface	Diesel Range Hydrocarbons	DRO	400	250
LP127	Post Road Company - Tenancy	Area 5	8/25/1992	SS23		Subsurface	Diesel Range Hydrocarbons	DRO	400	250
LP137	Laidlaw Transit	Area 5	6/24/1994	SS6	0.5	Surface	Diesel Range Hydrocarbons	DRO	405	250
LP003	Flint Hills	Area 3	4/1/1994	W4	12	Subsurface	Diesel Range Hydrocarbons	DRO	410	250
LP003	Flint Hills	Area 3	4/1/1994	W65	4	Subsurface	Diesel Range Hydrocarbons	DRO	410	250
LP137	Laidlaw Transit	Area 5	6/24/1994	SB2	4	Subsurface	Diesel Range Hydrocarbons	DRO	412	250
RY065	Railyard	Area 2	12/11/1997	BMW2	10	Subsurface	Diesel Range Hydrocarbons	DRO	412	250
LP003	Flint Hills	Area 3	9/25/1992	SP14S5	2	Subsurface	Diesel Range Hydrocarbons	DRO	420	250
LP003	Flint Hills	Area 3	4/1/1994	W126	2	Subsurface	Diesel Range Hydrocarbons	DRO	420	250
LP003	Flint Hills	Area 3	4/1/1994	W199	4	Subsurface	Diesel Range Hydrocarbons	DRO	420	250
RY065	Railyard	Area 2	10/2/2003	EX14		Subsurface	Diesel Range Hydrocarbons	DRO	423	250
LP055	Altex Distributing	Area 5	3/22/1990	BH6	9	Subsurface	Diesel Range Hydrocarbons	DRO	428	250
LP003	Flint Hills	Area 3	4/1/1994	W201	2	Subsurface	Diesel Range Hydrocarbons	DRO	430	250
LP991	Arctic Cooperage	Area 5	12/4/1997	CHMW1A	12	Subsurface	Diesel Range Hydrocarbons	DRO	431	250
LP024	Prescott Equipment	Area 4	8/11/1999	P917	2	Subsurface	Diesel Range Hydrocarbons	DRO	432	250
LP024	Prescott Equipment	Area 4	8/11/1999	PEC2A2	2	Subsurface	Diesel Range Hydrocarbons	DRO	432	250
LP003	Flint Hills	Area 3	4/1/1994	E52	4	Subsurface	Diesel Range Hydrocarbons	DRO	440	250
LP991	Arctic Cooperage	Area 5	11/18/1997	TR6	11	Subsurface	Diesel Range Hydrocarbons	DRO	445	250
LP094	Alaska Basic Industries	Area 4	5/7/1998	CS5	3	Subsurface	Diesel Range Hydrocarbons	DRO	446	250
RY065	Railyard	Area 2	9/16/2003	EX8		Subsurface	Diesel Range Hydrocarbons	DRO	447	250
LP991	Arctic Cooperage	Area 5	12/5/1997	BASE1	6	Subsurface	Diesel Range Hydrocarbons	DRO	453	250
LP022	Municipal Light & Power	Area 5	6/14/1994	THCOMP		Subsurface	Diesel Range Hydrocarbons	DRO	460	250
LP055	Altex Distributing	Area 5	5/1/1990	MW10	6	Subsurface	Diesel Range Hydrocarbons	DRO	468	250
LP003	Flint Hills	Area 3	10/9/1995	B12	4	Subsurface	Diesel Range Hydrocarbons	DRO	470	250

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP027	Chevron Former Asphalt	Area 3	1/1/1990	ESL25		Subsurface	Diesel Range Hydrocarbons	DRO	480	250
LP003	Flint Hills	Area 3	11/10/1995	B19A	2	Subsurface	Diesel Range Hydrocarbons	DRO	480	250
LP003	Flint Hills	Area 3	10/10/1995	B6B	1	Subsurface	Diesel Range Hydrocarbons	DRO	480	250
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	SS25		Subsurface	Diesel Range Hydrocarbons	DRO	480	250
LP060	North Star Terminal	Area 3	5/31/1998	SB3	7	Subsurface	Diesel Range Hydrocarbons	DRO	481	250
LP024	Prescott Equipment	Area 4	8/12/1998	SS2	0.5	Surface	Diesel Range Hydrocarbons	DRO	483	250
LP003	Flint Hills	Area 3	6/3/2002	GPS1	2	Subsurface	Diesel Range Hydrocarbons	DRO	490	250
LP003	Flint Hills	Area 3	4/1/1994	W121	5	Subsurface	Diesel Range Hydrocarbons	DRO	490	250
LP003	Flint Hills	Area 3	9/24/1992	S9	8	Subsurface	Diesel Range Hydrocarbons	DRO	491	250
LP003	Flint Hills	Area 3	1/28/1998	B2	9	Subsurface	Diesel Range Hydrocarbons	DRO	494	250
LP991	Arctic Cooperage	Area 5	5/16/1996	301		Subsurface	Diesel Range Hydrocarbons	DRO	500	250
LP003	Flint Hills	Area 3	2/26/1992	B25	4	Subsurface	Diesel Range Hydrocarbons	DRO	500	250
LP003	Flint Hills	Area 3	4/1/1994	W35	3	Subsurface	Diesel Range Hydrocarbons	DRO	500	250
LP003	Flint Hills	Area 3	9/25/1992	SP11S3	2	Subsurface	Diesel Range Hydrocarbons	DRO	510	250
LP003	Flint Hills	Area 3	9/25/1992	SP12S2	2	Subsurface	Diesel Range Hydrocarbons	DRO	510	250
LP003	Flint Hills	Area 3	4/1/1994	W36	10	Subsurface	Diesel Range Hydrocarbons	DRO	510	250
LP003	Flint Hills	Area 3	4/1/1994	E32	9	Subsurface	Diesel Range Hydrocarbons	DRO	520	250
LP003	Flint Hills	Area 3	9/25/1992	SP13S5	2	Subsurface	Diesel Range Hydrocarbons	DRO	520	250
RY065	Railyard	Area 2	9/16/2003	SP8		Subsurface	Diesel Range Hydrocarbons	DRO	521	250
RY065	Railyard	Area 2	9/16/2003	SP11		Subsurface	Diesel Range Hydrocarbons	DRO	528	250
LP065	Princess Tours	Area 2	6/1/1992	4MW	16.5	Subsurface	Diesel Range Hydrocarbons	DRO	530	250
RY065	Railyard	Area 2	11/1/1991	WR6		Subsurface	Diesel Range Hydrocarbons	DRO	539	250
LP003	Flint Hills	Area 3	9/6/2002	906022	2	Subsurface	Diesel Range Hydrocarbons	DRO	540	250
LP003	Flint Hills	Area 3	4/1/1994	W10	7	Subsurface	Diesel Range Hydrocarbons	DRO	540	250
LP003	Flint Hills	Area 3	4/1/1994	W182	3	Subsurface	Diesel Range Hydrocarbons	DRO	540	250
LP003	Flint Hills	Area 3	1/28/1998	B14	6	Subsurface	Diesel Range Hydrocarbons	DRO	541	250
LP065	Princess Tours	Area 2	5/6/1994	MW1	2	Subsurface	Diesel Range Hydrocarbons	DRO	548	250
LP003	Flint Hills	Area 3	9/25/1992	SP16S3	2	Subsurface	Diesel Range Hydrocarbons	DRO	550	250
LP022	Municipal Light & Power	Area 5	7/8/1994	SBPZG4	9	Subsurface	Diesel Range Hydrocarbons	DRO	550	250
LP085	CBS Equipment	Area 5	9/30/1992	PIT1EW		Subsurface	Diesel Range Hydrocarbons	DRO	560	250
LP003	Flint Hills	Area 3	10/9/1995	B13	11.5	Subsurface	Diesel Range Hydrocarbons	DRO	570	250
LP003	Flint Hills	Area 3	1/28/1998	B4	8	Subsurface	Diesel Range Hydrocarbons	DRO	576	250
LP003	Flint Hills	Area 3	6/18/2002	DSS1	2	Subsurface	Diesel Range Hydrocarbons	DRO	580	250
LP003	Flint Hills	Area 3	11/10/1995	B16A	4	Subsurface	Diesel Range Hydrocarbons	DRO	590	250
LP003	Flint Hills	Area 3	4/1/1994	E30	4	Subsurface	Diesel Range Hydrocarbons	DRO	590	250
LP003	Flint Hills	Area 3	4/1/1994	W210	3	Subsurface	Diesel Range Hydrocarbons	DRO	590	250
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB1	4	Subsurface	Diesel Range Hydrocarbons	DRO	590	250
LP003	Flint Hills	Area 3	4/1/1994	E89	7	Subsurface	Diesel Range Hydrocarbons	DRO	600	250
LP003	Flint Hills	Area 3	4/1/1994	W196	0.5	Surface	Diesel Range Hydrocarbons	DRO	600	250
LP137	Laidlaw Transit	Area 5	8/18/1994	TH1.6	1.6	Subsurface	Diesel Range Hydrocarbons	DRO	600	250
LP060	North Star Terminal	Area 3	5/31/1998	SB8	7	Subsurface	Diesel Range Hydrocarbons	DRO	605	250
LP137	Laidlaw Transit	Area 5	11/24/1998	CHSB2	8	Subsurface	Diesel Range Hydrocarbons	DRO	606	250
LP022	Municipal Light & Power	Area 5	7/8/1994	SBG3	5	Subsurface	Diesel Range Hydrocarbons	DRO	620	250
LP024	Prescott Equipment	Area 4	9/1/1999	P3		Subsurface	Diesel Range Hydrocarbons	DRO	620	250

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP024	Prescott Equipment	Area 4	9/17/1999	P917	1	Subsurface	Diesel Range Hydrocarbons	DRO	620	250
LP024	Prescott Equipment	Area 4	9/17/1999	P3	1	Subsurface	Diesel Range Hydrocarbons	DRO	620	250
LP003	Flint Hills	Area 3	4/1/1994	W41	4	Subsurface	Diesel Range Hydrocarbons	DRO	640	250
LP024	Prescott Equipment	Area 4	9/1/1999	2		Subsurface	Diesel Range Hydrocarbons	DRO	640	250
LP024	Prescott Equipment	Area 4	9/17/1999	P917	1	Subsurface	Diesel Range Hydrocarbons	DRO	640	250
LP024	Prescott Equipment	Area 4	9/17/1999	PEC2A2	1	Subsurface	Diesel Range Hydrocarbons	DRO	640	250
LP991	Arctic Cooperage	Area 5	12/5/1997	BASE1	4	Subsurface	Diesel Range Hydrocarbons	DRO	641	250
LP003	Flint Hills	Area 3	4/1/1994	W113	3	Subsurface	Diesel Range Hydrocarbons	DRO	650	250
LP003	Flint Hills	Area 3	4/1/1994	W36	7	Subsurface	Diesel Range Hydrocarbons	DRO	650	250
LP022	Municipal Light & Power	Area 5	7/8/1994	SBG11		Subsurface	Diesel Range Hydrocarbons	DRO	650	250
LP003	Flint Hills	Area 3	9/25/1992	SP10S4	2	Subsurface	Diesel Range Hydrocarbons	DRO	660	250
LP003	Flint Hills	Area 3	4/1/1994	W1	9	Subsurface	Diesel Range Hydrocarbons	DRO	660	250
LP137	Laidlaw Transit	Area 5	10/11/1990	G20BE		Subsurface	Diesel Range Hydrocarbons	DRO	660	250
LP137	Laidlaw Transit	Area 5	11/24/1998	CHSB3	9	Subsurface	Diesel Range Hydrocarbons	DRO	678	250
LP003	Flint Hills	Area 3	4/1/1994	W9	7	Subsurface	Diesel Range Hydrocarbons	DRO	680	250
LP137	Laidlaw Transit	Area 5	11/24/1998	CHSB4	4	Subsurface	Diesel Range Hydrocarbons	DRO	680	250
LP024	Prescott Equipment	Area 4	8/12/1998	SS2	0.5	Surface	Diesel Range Hydrocarbons	DRO	684	250
RY065	Railyard	Area 2	9/16/2003	SP6		Subsurface	Diesel Range Hydrocarbons	DRO	687	250
LP003	Flint Hills	Area 3	10/14/1997	HO1		Subsurface	Diesel Range Hydrocarbons	DRO	690	250
LP003	Flint Hills	Area 3	9/25/1992	SP18S3	2	Subsurface	Diesel Range Hydrocarbons	DRO	690	250
LP065	Princess Tours	Area 2	6/1/1992	4MW	16.5	Subsurface	Diesel Range Hydrocarbons	DRO	690	250
LP003	Flint Hills	Area 3	1/28/1998	B5	6	Subsurface	Diesel Range Hydrocarbons	DRO	699	250
LP003	Flint Hills	Area 3	9/6/2002	906021	2	Subsurface	Diesel Range Hydrocarbons	DRO	700	250
LP003	Flint Hills	Area 3	6/5/2002	GPS2	2	Subsurface	Diesel Range Hydrocarbons	DRO	700	250
LP137	Laidlaw Transit	Area 5	8/18/1994	TH2.5	2.5	Subsurface	Diesel Range Hydrocarbons	DRO	708	250
LP003	Flint Hills	Area 3	9/25/1992	SP19S3	2	Subsurface	Diesel Range Hydrocarbons	DRO	710	250
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS19		Subsurface	Diesel Range Hydrocarbons	DRO	710	250
LP002	Consolidated Freightways	Area 1	8/15/1989	MW1	5	Subsurface	Diesel Range Hydrocarbons	DRO	720	250
LP002	Consolidated Freightways	Area 1	8/15/1989	S2	5	Subsurface	Diesel Range Hydrocarbons	DRO	720	250
LP003	Flint Hills	Area 3	1/28/1998	B10	3	Subsurface	Diesel Range Hydrocarbons	DRO	720	250
LP003	Flint Hills	Area 3	4/1/1994	W224	2	Subsurface	Diesel Range Hydrocarbons	DRO	720	250
LP049	Wrightway Auto Carriers	Area 6	10/16/1992	TP2	9	Subsurface	Diesel Range Hydrocarbons	DRO	720	250
LP031	Keystone Services	Area 4	9/26/2001	FD	0	Surface	Diesel Range Hydrocarbons	DRO	722	250
LP003	Flint Hills	Area 3	6/18/2002	DS1	6.5	Subsurface	Diesel Range Hydrocarbons	DRO	730	250
LP003	Flint Hills	Area 3	4/1/1994	W16	6	Subsurface	Diesel Range Hydrocarbons	DRO	730	250
LP137	Laidlaw Transit	Area 5	11/24/1998	CHSB4		Subsurface	Diesel Range Hydrocarbons	DRO	730	250
LP022	Municipal Light & Power	Area 5	7/8/1994	SBPZG2	9	Subsurface	Diesel Range Hydrocarbons	DRO	730	250
LP137	Laidlaw Transit	Area 5	10/10/1990	11BN		Subsurface	Diesel Range Hydrocarbons	DRO	749	250
LP003	Flint Hills	Area 3	2/25/1992	B26	4	Subsurface	Diesel Range Hydrocarbons	DRO	750	250
LP003	Flint Hills	Area 3	4/1/1994	W120	2	Subsurface	Diesel Range Hydrocarbons	DRO	750	250
LP003	Flint Hills	Area 3	1/28/1998	B14	9	Subsurface	Diesel Range Hydrocarbons	DRO	755	250
LP003	Flint Hills	Area 3	3/26/1992	B12	9	Subsurface	Diesel Range Hydrocarbons	DRO	780	250
LP991	Arctic Cooperage	Area 5	10/28/1997	CHMW5	5	Subsurface	Diesel Range Hydrocarbons	DRO	803	250
LP024	Prescott Equipment	Area 4	8/12/1998	B3	7	Subsurface	Diesel Range Hydrocarbons	DRO	803	250

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP131	Alaska Sheetmetal	Area 6	9/27/1996	B2	2	Subsurface	Diesel Range Hydrocarbons	DRO	807	250
LP003	Flint Hills	Area 3	4/1/1994	E32	6	Subsurface	Diesel Range Hydrocarbons	DRO	810	250
LP003	Flint Hills	Area 3	4/1/1994	W172	2	Subsurface	Diesel Range Hydrocarbons	DRO	810	250
LP022	Municipal Light & Power	Area 5	6/1/1996	SB35	4	Subsurface	Diesel Range Hydrocarbons	DRO	820	250
LP003	Flint Hills	Area 3	4/1/1994	W15	4	Subsurface	Diesel Range Hydrocarbons	DRO	840	250
LP019	Tesoro Terminal #1	Area 3	7/1/1998	FS7	2	Subsurface	Diesel Range Hydrocarbons	DRO	840	250
LP019	Tesoro Terminal #1	Area 3	7/11/1989	TB2EX	8	Subsurface	Diesel Range Hydrocarbons	DRO	840	250
LP003	Flint Hills	Area 3	10/6/1995	B18	6.5	Subsurface	Diesel Range Hydrocarbons	DRO	850	250
LP022	Municipal Light & Power	Area 5	9/1/1994	IW15	6	Subsurface	Diesel Range Hydrocarbons	DRO	850	250
LP003	Flint Hills	Area 3	4/1/1994	E46	4	Subsurface	Diesel Range Hydrocarbons	DRO	860	250
LP003	Flint Hills	Area 3	4/1/1994	W83	2	Subsurface	Diesel Range Hydrocarbons	DRO	870	250
LP003	Flint Hills	Area 3	4/1/1994	E19	4	Subsurface	Diesel Range Hydrocarbons	DRO	880	250
LP024	Prescott Equipment	Area 4	8/12/1998	SS2	0.5	Surface	Diesel Range Hydrocarbons	DRO	885	250
LP003	Flint Hills	Area 3	3/26/1992	B11	4	Subsurface	Diesel Range Hydrocarbons	DRO	900	250
LP003	Flint Hills	Area 3	4/1/1994	W12	7	Subsurface	Diesel Range Hydrocarbons	DRO	900	250
LP137	Laidlaw Transit	Area 5	10/11/1990	G22NE		Subsurface	Diesel Range Hydrocarbons	DRO	900	250
LP022	Municipal Light & Power	Area 5	5/31/1996	SB21	10	Subsurface	Diesel Range Hydrocarbons	DRO	900	250
LP022	Municipal Light & Power	Area 5	7/8/1994	SBG9	2	Subsurface	Diesel Range Hydrocarbons	DRO	900	250
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	10	Subsurface	Diesel Range Hydrocarbons	DRO	914	250
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS18		Subsurface	Diesel Range Hydrocarbons	DRO	920	250
LP065	Princess Tours	Area 2	5/30/1992	SB2	1	Subsurface	Diesel Range Hydrocarbons	DRO	930	250
RY065	Railyard	Area 2	9/16/2003	SP3		Subsurface	Diesel Range Hydrocarbons	DRO	931	250
RY065	Railyard	Area 2	11/1/1991	WR5		Subsurface	Diesel Range Hydrocarbons	DRO	937	250
LP022	Municipal Light & Power	Area 5	5/31/1996	SB19	9	Subsurface	Diesel Range Hydrocarbons	DRO	940	250
LP019	Tesoro Terminal #1	Area 3	7/13/1989	TB2TR	4	Subsurface	Diesel Range Hydrocarbons	DRO	960	250
LP003	Flint Hills	Area 3	9/25/1992	SP21S1	2	Subsurface	Diesel Range Hydrocarbons	DRO	970	250
LP003	Flint Hills	Area 3	4/1/1994	W195	0.5	Surface	Diesel Range Hydrocarbons	DRO	970	250
LP055	Altex Distributing	Area 5	3/22/1990	BH5	9	Subsurface	Diesel Range Hydrocarbons	DRO	987	250
LP002	Consolidated Freightways	Area 1	8/15/1989	S2	5	Subsurface	Diesel Range Hydrocarbons	DRO	990	250
LP003	Flint Hills	Area 3	4/1/1994	E35	4	Subsurface	Diesel Range Hydrocarbons	DRO	990	250
LP003	Flint Hills	Area 3	4/1/1994	W172	2	Subsurface	Diesel Range Hydrocarbons	DRO	990	250
LP024	Prescott Equipment	Area 4	9/17/1999	P917	2	Subsurface	Diesel Range Hydrocarbons	DRO	990	250
LP024	Prescott Equipment	Area 4	9/17/1999	P6	2	Subsurface	Diesel Range Hydrocarbons	DRO	990	250
LP991	Arctic Cooperage	Area 5	12/4/1997	CHMW1A	8	Subsurface	Diesel Range Hydrocarbons	DRO	993	250
LP991	Arctic Cooperage	Area 5	11/13/1997	TR3	3	Subsurface	Diesel Range Hydrocarbons	DRO	1000	250
LP003	Flint Hills	Area 3	4/1/1994	W15	6	Subsurface	Diesel Range Hydrocarbons	DRO	1000	250
LP137	Laidlaw Transit	Area 5	11/23/1998	CHMWE2	9	Subsurface	Diesel Range Hydrocarbons	DRO	1000	250
LP022	Municipal Light & Power	Area 5	6/1/1996	SB35	8	Subsurface	Diesel Range Hydrocarbons	DRO	1000	250
LP019	Tesoro Terminal #1	Area 3	10/19/1999	PW23		Subsurface	Diesel Range Hydrocarbons	DRO	1000	250
LP019	Tesoro Terminal #1	Area 3	7/29/1998	PW17	4.5	Subsurface	Diesel Range Hydrocarbons	DRO	1000	250
LP024	Prescott Equipment	Area 4	8/12/1998	SS3	0.5	Surface	Diesel Range Hydrocarbons	DRO	1010	250
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB2	8	Subsurface	Diesel Range Hydrocarbons	DRO	1030	250
LP137	Laidlaw Transit	Area 5	6/24/1994	MW3	18	Subsurface	Diesel Range Hydrocarbons	DRO	1040	250
LP991	Arctic Cooperage	Area 5	5/29/1996	SB5	7.5	Subsurface	Diesel Range Hydrocarbons	DRO	1045	250

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP022	Municipal Light & Power	Area 5	7/8/1994	SBG5	9	Subsurface	Diesel Range Hydrocarbons	DRO	1050	250
LP003	Flint Hills	Area 3	8/19/2002	REX	3	Subsurface	Diesel Range Hydrocarbons	DRO	1100	250
LP003	Flint Hills	Area 3	10/6/1995	B14	6.5	Subsurface	Diesel Range Hydrocarbons	DRO	1100	250
LP003	Flint Hills	Area 3	10/6/1995	B18	6.5	Subsurface	Diesel Range Hydrocarbons	DRO	1100	250
LP003	Flint Hills	Area 3	4/1/1994	E28	4	Subsurface	Diesel Range Hydrocarbons	DRO	1100	250
LP003	Flint Hills	Area 3	4/1/1994	E47	6	Subsurface	Diesel Range Hydrocarbons	DRO	1100	250
LP024	Prescott Equipment	Area 4	8/11/1999	PEC21B	3	Subsurface	Diesel Range Hydrocarbons	DRO	1100	250
LP024	Prescott Equipment	Area 4	8/11/1999	21	3	Subsurface	Diesel Range Hydrocarbons	DRO	1100	250
LP065	Princess Tours	Area 2	5/5/1994	NEWOWS	3	Subsurface	Diesel Range Hydrocarbons	DRO	1160	250
LP065	Princess Tours	Area 2	5/5/1994	2SUMP	3	Subsurface	Diesel Range Hydrocarbons	DRO	1160	250
LP065	Princess Tours	Area 2	5/24/1994	SB7	1.7	Subsurface	Diesel Range Hydrocarbons	DRO	1190	250
LP003	Flint Hills	Area 3	9/24/1992	SP5S1	2	Subsurface	Diesel Range Hydrocarbons	DRO	1200	250
LP003	Flint Hills	Area 3	9/24/1992	SP8S5	2	Subsurface	Diesel Range Hydrocarbons	DRO	1200	250
LP137	Laidlaw Transit	Area 5	11/24/1998	CHSB3	5	Subsurface	Diesel Range Hydrocarbons	DRO	1200	250
LP022	Municipal Light & Power	Area 5	7/8/1994	SBG11		Subsurface	Diesel Range Hydrocarbons	DRO	1250	250
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB2	9	Subsurface	Diesel Range Hydrocarbons	DRO	1280	250
LP003	Flint Hills	Area 3	7/27/2002	RE6	2	Subsurface	Diesel Range Hydrocarbons	DRO	1300	250
LP003	Flint Hills	Area 3	4/1/1994	W40	7	Subsurface	Diesel Range Hydrocarbons	DRO	1300	250
LP022	Municipal Light & Power	Area 5	7/8/1994	TP3	8	Subsurface	Diesel Range Hydrocarbons	DRO	1300	250
LP022	Municipal Light & Power	Area 5	7/8/1994	SBPZG2	5	Subsurface	Diesel Range Hydrocarbons	DRO	1300	250
LP019	Tesoro Terminal #1	Area 3	7/31/1998	PW9	5	Subsurface	Diesel Range Hydrocarbons	DRO	1300	250
LP991	Arctic Cooperage	Area 5	8/5/1997	CHSB8	6	Subsurface	Diesel Range Hydrocarbons	DRO	1310	250
LP003	Flint Hills	Area 3	1/28/1998	B8	8	Subsurface	Diesel Range Hydrocarbons	DRO	1310	250
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Diesel Range Hydrocarbons	DRO	1310	250
LP003	Flint Hills	Area 3	1/28/1998	B3	6	Subsurface	Diesel Range Hydrocarbons	DRO	1390	250
LP003	Flint Hills	Area 3	10/6/1995	15MW	1	Subsurface	Diesel Range Hydrocarbons	DRO	1400	250
LP019	Tesoro Terminal #1	Area 3	7/11/1989	TB1EX	11	Subsurface	Diesel Range Hydrocarbons	DRO	1400	250
LP991	Arctic Cooperage	Area 5	5/16/1996	304		Subsurface	Diesel Range Hydrocarbons	DRO	1410	250
RY065	Railyard	Area 2	9/16/2003	SP13		Subsurface	Diesel Range Hydrocarbons	DRO	1420	250
LP991	Arctic Cooperage	Area 5	5/28/1996	SB7	5	Subsurface	Diesel Range Hydrocarbons	DRO	1430	250
LP055	Altex Distributing	Area 5	3/22/1990	BH8	9	Subsurface	Diesel Range Hydrocarbons	DRO	1450	250
LP022	Municipal Light & Power	Area 5	7/8/1994	SBG10		Subsurface	Diesel Range Hydrocarbons	DRO	1450	250
LP991	Arctic Cooperage	Area 5	10/28/1997	CHMW5	12	Subsurface	Diesel Range Hydrocarbons	DRO	1480	250
RY065	Railyard	Area 2	9/16/2003	SP10		Subsurface	Diesel Range Hydrocarbons	DRO	1490	250
LP003	Flint Hills	Area 3	9/24/1992	SP1S3	2	Subsurface	Diesel Range Hydrocarbons	DRO	1500	250
LP024	Prescott Equipment	Area 4	9/17/1999	P917	1	Subsurface	Diesel Range Hydrocarbons	DRO	1500	250
LP024	Prescott Equipment	Area 4	9/17/1999	P4	1	Subsurface	Diesel Range Hydrocarbons	DRO	1500	250
RY065	Railyard	Area 2	9/22/2000	PIT1		Subsurface	Diesel Range Hydrocarbons	DRO	1500	250
LP019	Tesoro Terminal #1	Area 3	7/13/1989	TB8TR	4	Subsurface	Diesel Range Hydrocarbons	DRO	1500	250
LP003	Flint Hills	Area 3	1/28/1998	B11	6	Subsurface	Diesel Range Hydrocarbons	DRO	1560	250
LP022	Municipal Light & Power	Area 5	7/8/1994	SBG6	5	Subsurface	Diesel Range Hydrocarbons	DRO	1600	250
LP019	Tesoro Terminal #1	Area 3	7/30/1998	FS15	1.5	Subsurface	Diesel Range Hydrocarbons	DRO	1600	250
LP019	Tesoro Terminal #1	Area 3	7/31/1998	PW15	4	Subsurface	Diesel Range Hydrocarbons	DRO	1600	250
LP022	Municipal Light & Power	Area 5	8/1/1995	SB17	6	Subsurface	Diesel Range Hydrocarbons	DRO	1620	250

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 Inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP022	Municipal Light & Power	Area 5	7/8/1994	SBG5	9	Subsurface	Diesel Range Hydrocarbons	DRO	1650	250
RY065	Railyard	Area 2	9/16/2003	SP5		Subsurface	Diesel Range Hydrocarbons	DRO	1670	250
LP003	Flint Hills	Area 3	4/1/1994	E64	4	Subsurface	Diesel Range Hydrocarbons	DRO	1700	250
LP003	Flint Hills	Area 3	4/1/1994	W155	4	Subsurface	Diesel Range Hydrocarbons	DRO	1700	250
LP003	Flint Hills	Area 3	4/1/1994	W164	2	Subsurface	Diesel Range Hydrocarbons	DRO	1700	250
LP003	Flint Hills	Area 3	4/1/1994	W218	2	Subsurface	Diesel Range Hydrocarbons	DRO	1700	250
LP003	Flint Hills	Area 3	4/1/1994	W7	10	Subsurface	Diesel Range Hydrocarbons	DRO	1700	250
LP022	Municipal Light & Power	Area 5	6/3/1996	MW23	10	Subsurface	Diesel Range Hydrocarbons	DRO	1700	250
LP022	Municipal Light & Power	Area 5	1/30/1995	SBG10	14	Subsurface	Diesel Range Hydrocarbons	DRO	1750	250
LP022	Municipal Light & Power	Area 5	7/8/1994	SBPZG1	5	Subsurface	Diesel Range Hydrocarbons	DRO	1750	250
LP137	Laidlaw Transit	Area 5	10/11/1990	G17E		Subsurface	Diesel Range Hydrocarbons	DRO	1760	250
LP003	Flint Hills	Area 3	9/24/1992	SP6S5	2	Subsurface	Diesel Range Hydrocarbons	DRO	1800	250
LP003	Flint Hills	Area 3	9/24/1992	SP9S1	2	Subsurface	Diesel Range Hydrocarbons	DRO	1800	250
LP003	Flint Hills	Area 3	4/1/1994	W216	0.5	Surface	Diesel Range Hydrocarbons	DRO	1800	250
LP003	Flint Hills	Area 3	4/1/1994	W36	4	Subsurface	Diesel Range Hydrocarbons	DRO	1800	250
RY065	Railyard	Area 2	9/16/2003	SP2		Subsurface	Diesel Range Hydrocarbons	DRO	1810	250
LP022	Municipal Light & Power	Area 5	1/30/1995	SBG10	14	Subsurface	Diesel Range Hydrocarbons	DRO	1850	250
LP022	Municipal Light & Power	Area 5	7/8/1994	SBPZG1	2	Subsurface	Diesel Range Hydrocarbons	DRO	1850	250
LP003	Flint Hills	Area 3	7/27/2002	RE6	2	Subsurface	Diesel Range Hydrocarbons	DRO	1900	250
LP003	Flint Hills	Area 3	4/1/1994	E35	10	Subsurface	Diesel Range Hydrocarbons	DRO	1900	250
LP003	Flint Hills	Area 3	4/1/1994	E54	4	Subsurface	Diesel Range Hydrocarbons	DRO	1900	250
LP003	Flint Hills	Area 3	9/24/1992	SP7S1	2	Subsurface	Diesel Range Hydrocarbons	DRO	1900	250
LP127	Post Road Company - Tenancy	Area 5	8/28/1992	SS27		Subsurface	Diesel Range Hydrocarbons	DRO	1900	250
LP991	Arctic Cooperage	Area 5	5/16/1996	303		Subsurface	Diesel Range Hydrocarbons	DRO	1920	250
RY065	Railyard	Area 2	9/16/2003	SP7		Subsurface	Diesel Range Hydrocarbons	DRO	1950	250
LP024	Prescott Equipment	Area 4	8/11/1999	PEC	2	Subsurface	Diesel Range Hydrocarbons	DRO	1990	250
LP024	Prescott Equipment	Area 4	8/11/1999	14	2	Subsurface	Diesel Range Hydrocarbons	DRO	1990	250
LP003	Flint Hills	Area 3	4/1/1994	W39	4	Subsurface	Diesel Range Hydrocarbons	DRO	2000	250
LP019	Tesoro Terminal #1	Area 3	7/10/1989	TB1TR	3.5	Subsurface	Diesel Range Hydrocarbons	DRO	2000	250
LP003	Flint Hills	Area 3	4/1/1994	E48	6	Subsurface	Diesel Range Hydrocarbons	DRO	2100	250
LP120	KAPP	Area 6	1/1/1998	145G	1	Subsurface	Diesel Range Hydrocarbons	DRO	2100	250
LP022	Municipal Light & Power	Area 5	1/30/1995	TP3		Subsurface	Diesel Range Hydrocarbons	DRO	2100	250
LP003	Flint Hills	Area 3	1/28/1998	B10	12	Subsurface	Diesel Range Hydrocarbons	DRO	2110	250
LP022	Municipal Light & Power	Area 5	6/5/1996	SB27	4	Subsurface	Diesel Range Hydrocarbons	DRO	2150	250
RY065	Railyard	Area 2	9/16/2003	SP12		Subsurface	Diesel Range Hydrocarbons	DRO	2150	250
LP019	Tesoro Terminal #1	Area 3	4/19/2000	4	0.5	Surface	Diesel Range Hydrocarbons	DRO	2190	250
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	8	Subsurface	Diesel Range Hydrocarbons	DRO	2200	250
LP003	Flint Hills	Area 3	4/1/1994	E39	6	Subsurface	Diesel Range Hydrocarbons	DRO	2200	250
LP137	Laidlaw Transit	Area 5	11/24/1998	CHSB2	11	Subsurface	Diesel Range Hydrocarbons	DRO	2200	250
LP003	Flint Hills	Area 3	10/9/1995	B13	15	Subsurface	Diesel Range Hydrocarbons	DRO	2300	250
LP003	Flint Hills	Area 3	4/1/1994	E44	4	Subsurface	Diesel Range Hydrocarbons	DRO	2300	250
LP003	Flint Hills	Area 3	4/1/1994	W161	3	Subsurface	Diesel Range Hydrocarbons	DRO	2300	250
LP022	Municipal Light & Power	Area 5	8/1/1995	SB17	8	Subsurface	Diesel Range Hydrocarbons	DRO	2300	250
LP022	Municipal Light & Power	Area 5	6/5/1996	SB27	6	Subsurface	Diesel Range Hydrocarbons	DRO	2300	250

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP137	Laidlaw Transit	Area 5	6/24/1994	SB2	4	Subsurface	Diesel Range Hydrocarbons	DRO	2370	250
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	13	Subsurface	Diesel Range Hydrocarbons	DRO	2400	250
LP003	Flint Hills	Area 3	4/1/1994	E47	4	Subsurface	Diesel Range Hydrocarbons	DRO	2400	250
LP022	Municipal Light & Power	Area 5	7/8/1994	SB8	2	Subsurface	Diesel Range Hydrocarbons	DRO	2400	250
LP065	Princess Tours	Area 2	5/29/1992	SB1	6.5	Subsurface	Diesel Range Hydrocarbons	DRO	2400	250
LP003	Flint Hills	Area 3	10/6/1995	B18	9	Subsurface	Diesel Range Hydrocarbons	DRO	2500	250
RY065	Railyard	Area 2	9/16/2003	SP4		Subsurface	Diesel Range Hydrocarbons	DRO	2510	250
LP022	Municipal Light & Power	Area 5	5/31/1996	SB18	10	Subsurface.	Diesel Range Hydrocarbons	DRO	2550	250
LP003	Flint Hills	Area 3	1/28/1998	B12	6	Subsurface	Diesel Range Hydrocarbons	DRO	2580	250
LP003	Flint Hills	Area 3	4/1/1994	W170	4	Subsurface	Diesel Range Hydrocarbons	DRO	2600	250
LP003	Flint Hills	Area 3	4/1/1994	W4	5	Subsurface	Diesel Range Hydrocarbons	DRO	2600	250
LP003	Flint Hills	Area 3	1/28/1998	B3	8	Subsurface	Diesel Range Hydrocarbons	DRO	2680	250
LP003	Flint Hills	Area 3	4/1/1994	E45	4	Subsurface	Diesel Range Hydrocarbons	DRO	2700	250
LP003	Flint Hills	Area 3	4/1/1994	W120	4	Subsurface	Diesel Range Hydrocarbons	DRO	2700	250
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Diesel Range Hydrocarbons	DRO	2700	250
LP022	Municipal Light & Power	Area 5	7/8/1994	SBG9	9	Subsurface	Diesel Range Hydrocarbons	DRO	2700	250
LP019	Tesoro Terminal #1	Area 3	10/19/1999	PW24		Subsurface	Diesel Range Hydrocarbons	DRO	2700	250
LP019	Tesoro Terminal #1	Area 3	7/29/1998	PW13	6.5	Subsurface	Diesel Range Hydrocarbons	DRO	2700	250
LP024	Prescott Equipment	Area 4	8/11/1999	PEC13A	1	Subsurface	Diesel Range Hydrocarbons	DRO	2770	250
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	4	Subsurface	Diesel Range Hydrocarbons	DRO	2800	250
LP003	Flint Hills	Area 3	9/24/1992	SP4S5	2	Subsurface	Diesel Range Hydrocarbons	DRO	2800	250
LP003	Flint Hills	Area 3	4/1/1994	W141	2	Subsurface	Diesel Range Hydrocarbons	DRO	2800	250
LP137	Laidlaw Transit	Area 5	11/24/1998	CHSB2	9	Subsurface	Diesel Range Hydrocarbons	DRO	2800	250
LP055	Altex Distributing	Area 5	3/22/1990	BH7	11	Subsurface	Diesel Range Hydrocarbons	DRO	2840	250
LP991	Arctic Cooperage	Area 5	11/13/1997	TR3	5	Subsurface	Diesel Range Hydrocarbons	DRO	2900	250
LP003	Flint Hills	Area 3	9/24/1992	SP3S1	2	Subsurface	Diesel Range Hydrocarbons	DRO	2900	250
LP022	Municipal Light & Power	Area 5	6/1/1996	SB35	6	Subsurface	Diesel Range Hydrocarbons	DRO	2900	250
LP003	Flint Hills	Area 3	8/19/2002	PLOP2	2	Subsurface	Diesel Range Hydrocarbons	DRO	3000	250
LP003	Flint Hills	Area 3	9/24/1992	SP2S	2	Subsurface	Diesel Range Hydrocarbons	DRO	3000	250
LP003	Flint Hills	Area 3	4/1/1994	W170	4	Subsurface	Diesel Range Hydrocarbons	DRO	3000	250
LP022	Municipal Light & Power	Area 5	5/31/1996	SB21	8	Subsurface	Diesel Range Hydrocarbons	DRO	3000	250
LP003	Flint Hills	Area 3	1/28/1998	B7	6	Subsurface	Diesel Range Hydrocarbons	DRO	3020	250
LP003	Flint Hills	Area 3	4/1/1994	EA59	4	Subsurface	Diesel Range Hydrocarbons	DRO	3100	250
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS6		Subsurface	Diesel Range Hydrocarbons	DRO	3100	250
LP065	Princess Tours	Area 2	5/24/1994	1RAIL	1.5	Subsurface	Diesel Range Hydrocarbons	DRO	3120	250
LP991	Arctic Cooperage	Area 5	10/28/1997	CHMW5	15	Subsurface	Diesel Range Hydrocarbons	DRO	3150	250
LP022	Municipal Light & Power	Area 5	6/5/1996	MW28	10	Subsurface	Diesel Range Hydrocarbons	DRO	3150	250
LP024	Prescott Equipment	Area 4	8/11/1999	PEC26A	2	Subsurface	Diesel Range Hydrocarbons	DRO	3170	250
LP024	Prescott Equipment	Area 4	8/12/1998	SS5	0.5	Surface	Diesel Range Hydrocarbons	DRO	3250	250
LP022	Municipal Light & Power	Area 5	5/31/1996	SB20	4	Subsurface	Diesel Range Hydrocarbons	DRO	3300	250
LP022	Municipal Light & Power	Area 5	7/8/1994	SBG3	9	Subsurface	Diesel Range Hydrocarbons	DRO	3300	250
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS9911	2.5	Subsurface	Diesel Range Hydrocarbons	DRO	3300	250
LP019	Tesoro Terminal #1	Area 3	7/30/1998	PW19B	4	Subsurface	Diesel Range Hydrocarbons	DRO	3300	250
LP019	Tesoro Terminal #1	Area 3	7/18/1994	T6	0.5	Surface	Diesel Range Hydrocarbons	DRO	3350	250

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP019	Tesoro Terminal #1	Area 3	6/7/1999	ESS20		Subsurface	Diesel Range Hydrocarbons	DRO	3400	250
LP019	Tesoro Terminal #1	Area 3	7/31/1998	PW4	6	Subsurface	Diesel Range Hydrocarbons	DRO	3400	250
LP003	Flint Hills	Area 3	1/28/1998	B10	6	Subsurface	Diesel Range Hydrocarbons	DRO	3440	250
LP022	Municipal Light & Power	Area 5	7/8/1994	SBG10		Subsurface	Diesel Range Hydrocarbons	DRO	3500	250
RY065	Railyard	Area 2	6/7/1991	PIT1	7	Subsurface	Diesel Range Hydrocarbons	DRO	3500	250
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS9		Subsurface	Diesel Range Hydrocarbons	DRO	3500	250
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS9915	2.5	Subsurface	Diesel Range Hydrocarbons	DRO	3500	250
LP003	Flint Hills	Area 3	1/28/1998	B8	6	Subsurface	Diesel Range Hydrocarbons	DRO	3550	250
LP022	Municipal Light & Power	Area 5	5/31/1996	SB21	6	Subsurface	Diesel Range Hydrocarbons	DRO	3550	250
LP003	Flint Hills	Area 3	1/28/1998	B7	9	Subsurface	Diesel Range Hydrocarbons	DRO	3590	250
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	8	Subsurface	Diesel Range Hydrocarbons	DRO	3600	250
LP022	Municipal Light & Power	Area 5	5/31/1996	SB20	8	Subsurface	Diesel Range Hydrocarbons	DRO	3600	250
LP991	Arctic Cooperage	Area 5	6/4/1996	SS6		Subsurface	Diesel Range Hydrocarbons	DRO	3680	250
LP003	Flint Hills	Area 3	4/1/1994	W36	2	Subsurface	Diesel Range Hydrocarbons	DRO	3700	250
LP022	Municipal Light & Power	Area 5	9/1/1994	IW15	8	Subsurface	Diesel Range Hydrocarbons	DRO	3700	250
LP003	Flint Hills	Area 3	4/1/1994	W197	2	Subsurface	Diesel Range Hydrocarbons	DRO	3800	250
LP019	Tesoro Terminal #1	Area 3	7/29/1998	PW12	4.5	Subsurface	Diesel Range Hydrocarbons	DRO	3800	250
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS10		Subsurface	Diesel Range Hydrocarbons	DRO	3900	250
LP137	Laidlaw Transit	Area 5	11/24/1998	CHSB3	4	Subsurface	Diesel Range Hydrocarbons	DRO	4000	250
LP065	Princess Tours	Area 2	5/2/1994	OOWSE	2.5	Subsurface	Diesel Range Hydrocarbons	DRO	4000	250
LP065	Princess Tours	Area 2	5/2/1994	OOWSNE	2	Subsurface	Diesel Range Hydrocarbons	DRO	4000	250
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS7		Subsurface	Diesel Range Hydrocarbons	DRO	4000	250
LP019	Tesoro Terminal #1	Area 3	7/30/1998	FS21	1.5	Subsurface	Diesel Range Hydrocarbons	DRO	4000	250
RY065	Railyard	Area 2	9/16/2003	USTSP1		Subsurface	Diesel Range Hydrocarbons	DRO	4060	250
LP137	Laidlaw Transit	Area 5	6/24/1994	SB2	10	Subsurface	Diesel Range Hydrocarbons	DRO	4070	250
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS9913	2.5	Subsurface	Diesel Range Hydrocarbons	DRO	4100	250
LP019	Tesoro Terminal #1	Area 3	7/12/1994	T3	0.5	Surface	Diesel Range Hydrocarbons	DRO	4100	250
LP131	Alaska Sheetmetal	Area 6	9/27/1996	B2	1	Subsurface	Diesel Range Hydrocarbons	DRO	4370	250
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	5	Subsurface	Diesel Range Hydrocarbons	DRO	4400	250
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB7	0.5	Surface	Diesel Range Hydrocarbons	DRO	4400	250
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG2		Subsurface	Diesel Range Hydrocarbons	DRO	4416	250
LP019	Tesoro Terminal #1	Area 3	4/19/2000	31	0.5	Surface	Diesel Range Hydrocarbons	DRO	4440	250
LP131	Alaska Sheetmetal	Area 6	9/27/1996	B2	3	Subsurface	Diesel Range Hydrocarbons	DRO	4490	250
LP003	Flint Hills	Area 3	4/1/1994	E44	4	Subsurface	Diesel Range Hydrocarbons	DRO	4500	250
LP019	Tesoro Terminal #1	Area 3	7/12/1994	T4	0.5	Surface	Diesel Range Hydrocarbons	DRO	4530	250
LP131	Alaska Sheetmetal	Area 6	9/27/1996	B1	1	Subsurface	Diesel Range Hydrocarbons	DRO	4600	250
LP019	Tesoro Terminal #1	Area 3	7/29/1998	PW14	8.5	Subsurface	Diesel Range Hydrocarbons	DRO	4600	250
LP019	Tesoro Terminal #1	Area 3	7/31/1998	PW4	8	Subsurface	Diesel Range Hydrocarbons	DRO	4600	250
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Diesel Range Hydrocarbons	DRO	4700	250
LP065	Princess Tours	Area 2	5/29/1992	MW1	11.5	Subsurface	Diesel Range Hydrocarbons	DRO	4700	250
LP003	Flint Hills	Area 3	2/25/1992	B1	4	Subsurface	Diesel Range Hydrocarbons	DRO	4800	250
LP022	Municipal Light & Power	Area 5	6/4/1996	MW24	4	Subsurface	Diesel Range Hydrocarbons	DRO	4800	250
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS12		Subsurface	Diesel Range Hydrocarbons	DRO	4800	250
LP003	Flint Hills	Area 3	3/26/1992	B9	6	Subsurface	Diesel Range Hydrocarbons	DRO	4900	250

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP022	Municipal Light & Power	Area 5	7/8/1994	SBPZG4	9	Subsurface	Diesel Range Hydrocarbons	DRO	5000	250
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS11		Subsurface	Diesel Range Hydrocarbons	DRO	5000	250
LP022	Municipal Light & Power	Area 5	6/4/1996	SB26	9	Subsurface	Diesel Range Hydrocarbons	DRO	5100	250
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS5		Subsurface	Diesel Range Hydrocarbons	DRO	5100	250
LP022	Municipal Light & Power	Area 5	7/8/1994	SBG6	9	Subsurface	Diesel Range Hydrocarbons	DRO	5150	250
LP022	Municipal Light & Power	Area 5	6/4/1996	MW24	6	Subsurface	Diesel Range Hydrocarbons	DRO	5150	250
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS5		Subsurface	Diesel Range Hydrocarbons	DRO	5200	250
LP131	Alaska Sheetmetal	Area 6	9/27/1996	B1	1	Subsurface	Diesel Range Hydrocarbons	DRO	5250	250
LP022	Municipal Light & Power	Area 5	1/1/1996	MW24		Subsurface	Diesel Range Hydrocarbons	DRO	5300	250
LP003	Flint Hills	Area 3	9/24/1992	SP2S	2	Subsurface	Diesel Range Hydrocarbons	DRO	5600	250
LP991	Arctic Cooperage	Area 5	12/4/1997	CHMW1A	6	Subsurface	Diesel Range Hydrocarbons	DRO	5700	250
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	4	Subsurface	Diesel Range Hydrocarbons	DRO	5700	250
LP019	Tesoro Terminal #1	Area 3	10/19/1999	PW25		Subsurface	Diesel Range Hydrocarbons	DRO	5700	250
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS13		Subsurface	Diesel Range Hydrocarbons	DRO	5700	250
LP022	Municipal Light & Power	Area 5	5/31/1996	SB20	6	Subsurface	Diesel Range Hydrocarbons	DRO	5760	250
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPB10	1	Subsurface	Diesel Range Hydrocarbons	DRO	5800	250
LP003	Flint Hills	Area 3	1/28/1998	B7	3	Subsurface	Diesel Range Hydrocarbons	DRO	6020	250
LP991	Arctic Cooperage	Area 5	6/4/1996	SS5		Subsurface	Diesel Range Hydrocarbons	DRO	6160	250
LP022	Municipal Light & Power	Area 5	1/30/1995	TP1		Subsurface	Diesel Range Hydrocarbons	DRO	6200	250
LP991	Arctic Cooperage	Area 5	5/29/1996	SB5	2.5	Subsurface	Diesel Range Hydrocarbons	DRO	6332	250
LP003	Flint Hills	Area 3	4/1/1994	EA55	4	Subsurface	Diesel Range Hydrocarbons	DRO	6400	250
LP022	Municipal Light & Power	Area 5	1/30/1995	SBG10	14	Subsurface	Diesel Range Hydrocarbons	DRO	6500	250
LP022	Municipal Light & Power	Area 5	7/8/1994	SBPZG1	9	Subsurface	Diesel Range Hydrocarbons	DRO	6500	250
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Diesel Range Hydrocarbons	DRO	6800	250
LP065	Princess Tours	Area 2	5/24/1994	SB7	1.7	Subsurface	Diesel Range Hydrocarbons	DRO	6820	250
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS14		Subsurface	Diesel Range Hydrocarbons	DRO	6900	250
LP022	Municipal Light & Power	Area 5	5/31/1996	SB18	8	Subsurface	Diesel Range Hydrocarbons	DRO	6950	250
LP024	Prescott Equipment	Area 4	8/11/1999	PEC19A	1	Subsurface	Diesel Range Hydrocarbons	DRO	6980	250
RY065	Railyard	Area 2	10/31/1991	WR1		Subsurface	Diesel Range Hydrocarbons	DRO	6980	250
LP003	Flint Hills	Area 3	4/1/1994	W197	2	Subsurface	Diesel Range Hydrocarbons	DRO	7000	250
LP022	Municipal Light & Power	Area 5	7/8/1994	TP1	5	Subsurface	Diesel Range Hydrocarbons	DRO	7000	250
LP065	Princess Tours	Area 2	6/1/1992	4MW	11.5	Subsurface	Diesel Range Hydrocarbons	DRO	7000	250
LP024	Prescott Equipment	Area 4	8/11/1999	PEC1	2	Subsurface	Diesel Range Hydrocarbons	DRO	7130	250
LP019	Tesoro Terminal #1	Area 3	6/7/1999	ESS21		Subsurface	Diesel Range Hydrocarbons	DRO	7200	250
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG2		Subsurface	Diesel Range Hydrocarbons	DRO	7200	250
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS996	1.5	Subsurface	Diesel Range Hydrocarbons	DRO	7300	250
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB7	1.5	Subsurface	Diesel Range Hydrocarbons	DRO	7300	250
LP003	Flint Hills	Area 3	4/1/1994	E48	4	Subsurface	Diesel Range Hydrocarbons	DRO	7400	250
LP019	Tesoro Terminal #1	Area 3	7/29/1998	PW3	6	Subsurface	Diesel Range Hydrocarbons	DRO	7500	250
LP065	Princess Tours	Area 2	5/6/1994	SB4	6	Subsurface	Diesel Range Hydrocarbons	DRO	7700	250
LP003	Flint Hills	Area 3	5/30/2002	RRTS1	3	Subsurface	Diesel Range Hydrocarbons	DRO	7800	250
LP022	Municipal Light & Power	Area 5	7/8/1994	SBPZG2	9	Subsurface	Diesel Range Hydrocarbons	DRO	7800	250
LP003	Flint Hills	Area 3	10/14/1997	HO1		Subsurface	Diesel Range Hydrocarbons	DRO	8100	250
LP022	Municipal Light & Power	Area 5	6/4/1996	SB26	14	Subsurface	Diesel Range Hydrocarbons	DRO	8100	250

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS9910	2.5	Subsurface	Diesel Range Hydrocarbons	DRO	8200	250
LP065	Princess Tours	Area 2	5/2/1994	OOWSSE	2.5	Subsurface	Diesel Range Hydrocarbons	DRO	8230	250
LP991	Arctic Cooperage	Area 5	5/28/1996	SB7	12.5	Subsurface	Diesel Range Hydrocarbons	DRO	8453	250
LP003	Flint Hills	Area 3	4/1/1994	E55	4	Subsurface	Diesel Range Hydrocarbons	DRO	8800	250
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Diesel Range Hydrocarbons	DRO	8800	250
LP019	Tesoro Terminal #1	Area 3	7/13/1989	TB5TR	4.5	Subsurface	Diesel Range Hydrocarbons	DRO	9500	250
LP003	Flint Hills	Area 3	10/11/1995	MW1	8	Subsurface	Diesel Range Hydrocarbons	DRO	9700	250
LP003	Flint Hills	Area 3	4/1/1994	W220	4	Subsurface	Diesel Range Hydrocarbons	DRO	9700	250
LP003	Flint Hills	Area 3	4/1/1994	E55	4	Subsurface	Diesel Range Hydrocarbons	DRO	9900	250
LP024	Prescott Equipment	Area 4	9/30/1999	PEC1	1	Subsurface	Diesel Range Hydrocarbons	DRO	10100	250
LP024	Prescott Equipment	Area 4	8/11/1999	PEC20A	1	Subsurface	Diesel Range Hydrocarbons	DRO	10100	250
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Diesel Range Hydrocarbons	DRO	11000	250
LP019	Tesoro Terminal #1	Area 3	7/29/1998	PW12	4	Subsurface	Diesel Range Hydrocarbons	DRO	11000	250
LP022	Municipal Light & Power	Area 5	6/4/1996	SB26	10	Subsurface	Diesel Range Hydrocarbons	DRO	11500	250
LP991	Arctic Cooperage	Area 5	8/5/1997	CHSB8	8	Subsurface	Diesel Range Hydrocarbons	DRO	11600	250
LP991	Arctic Cooperage	Area 5	12/4/1997	CHMW1A	4	Subsurface	Diesel Range Hydrocarbons	DRO	12000	250
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Diesel Range Hydrocarbons	DRO	12000	250
LP002	Consolidated Freightways	Area 1	6/14/1989	S1	5	Subsurface	Diesel Range Hydrocarbons	DRO	12000	250
LP003	Flint Hills	Area 3	5/31/2002	RRTS17	3	Subsurface	Diesel Range Hydrocarbons	DRO	12000	250
LP003	Flint Hills	Area 3	4/1/1994	W7	7	Subsurface	Diesel Range Hydrocarbons	DRO	12000	250
LP065	Princess Tours	Area 2	6/3/1992	GR1		Subsurface	Diesel Range Hydrocarbons	DRO	12000	250
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS9929	2.5	Subsurface	Diesel Range Hydrocarbons	DRO	12000	250
LP019	Tesoro Terminal #1	Area 3	7/12/1994	T5	0.5	Surface	Diesel Range Hydrocarbons	DRO	12000	250
LP019	Tesoro Terminal #1	Area 3	7/12/1989	TBA	6	Subsurface	Diesel Range Hydrocarbons	DRO	12000	250
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Diesel Range Hydrocarbons	DRO	13000	250
LP019	Tesoro Terminal #1	Area 3	7/29/1998	PW14	6.5	Subsurface	Diesel Range Hydrocarbons	DRO	13000	250
LP019	Tesoro Terminal #1	Area 3	7/12/1994	T1	0.5	Surface	Diesel Range Hydrocarbons	DRO	13700	250
LP003	Flint Hills	Area 3	5/31/2002	RRTS	3	Subsurface	Diesel Range Hydrocarbons	DRO	14000	250
LP019	Tesoro Terminal #1	Area 3	7/12/1994	T2	0.5	Surface	Diesel Range Hydrocarbons	DRO	14400	250
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Diesel Range Hydrocarbons	DRO	15000	250
LP003	Flint Hills	Area 3	5/31/2002	RRTS	3	Subsurface	Diesel Range Hydrocarbons	DRO	15000	250
LP137	Laidlaw Transit	Area 5	10/11/1990	D215BN		Subsurface	Diesel Range Hydrocarbons	DRO	15000	250
RY065	Railyard	Area 2	10/31/1991	WR2		Subsurface	Diesel Range Hydrocarbons	DRO	15300	250
LP991	Arctic Cooperage	Area 5	8/25/1997	CHMW1	4	Subsurface	Diesel Range Hydrocarbons	DRO	16000	250
LP003	Flint Hills	Area 3	5/30/2002	RRTS9	2	Subsurface	Diesel Range Hydrocarbons	DRO	16000	250
SS003	Flint Hills	Area 3	5/10/2002	SDS	4	Subsurface	Diesel Range Hydrocarbons	DRO	16000	250
LP065	Princess Tours	Area 2	6/3/1992	GR2		Subsurface	Diesel Range Hydrocarbons	DRO	16000	250
LP019	Tesoro Terminal #1	Area 3	7/31/1998	PW7	5	Subsurface	Diesel Range Hydrocarbons	DRO	16000	250
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Diesel Range Hydrocarbons	DRO	18000	250
LP022	Municipal Light & Power	Area 5	6/5/1996	MW28	6	Subsurface	Diesel Range Hydrocarbons	DRO	20000	250
LP019	Tesoro Terminal #1	Area 3	7/12/1989	TB4EX	7.5	Subsurface	Diesel Range Hydrocarbons	DRO	23000	250
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG1		Subsurface	Diesel Range Hydrocarbons	DRO	25000	250
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	6	Subsurface	Diesel Range Hydrocarbons	DRO	26000	250
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS8		Subsurface	Diesel Range Hydrocarbons	DRO	26000	250

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP991	Arctic Cooperage	Area 5	11/13/1997	TR1	2	Subsurface	Diesel Range Hydrocarbons	DRO	27000	250
LP024	Prescott Equipment	Area 4	8/12/1998	SS4	0.5	Surface	Diesel Range Hydrocarbons	DRO	27300	250
LP022	Municipal Light & Power	Area 5	7/11/1994	TH12	0	Surface	Diesel Range Hydrocarbons	DRO	28000	250
LP024	Prescott Equipment	Area 4	8/12/1998	SS4	0.5	Surface	Diesel Range Hydrocarbons	DRO	28000	250
LP024	Prescott Equipment	Area 4	8/12/1998	SS4	0.5	Surface	Diesel Range Hydrocarbons	DRO	29900	250
LP991	Arctic Cooperage	Area 5	11/18/1997	TR7	6	Subsurface	Diesel Range Hydrocarbons	DRO	35000	250
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS997	1.5	Subsurface	Diesel Range Hydrocarbons	DRO	40000	250
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPG1	1.5	Subsurface	Diesel Range Hydrocarbons	DRO	51000	250
LP003	Flint Hills	Area 3	4/1/1994	W81	7	Subsurface	Diesel Range Hydrocarbons	DRO	57000	250
LP003	Flint Hills	Area 3	10/5/2000	TP7	3	Subsurface	Diesel Range Hydrocarbons	DRO	805000	250
LP019	Tesoro Terminal #1	Area 3	7/13/1989	TB8TR	4	Subsurface	Ethylbenzene	100-41-4	5.6	5.5
LP003	Flint Hills	Area 3	10/14/1997	HO1		Subsurface	Ethylbenzene	100-41-4	5.7	5.5
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS6		Subsurface	Ethylbenzene	100-41-4	5.7	5.5
LP003	Flint Hills	Area 3	1/28/1998	B7	9	Subsurface	Ethylbenzene	100-41-4	5.74	5.5
LP137	Laidlaw Transit	Area 5	11/23/1998	CHMWE2	9	Subsurface	Ethylbenzene	100-41-4	5.8	5.5
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS2	1	Subsurface	Ethylbenzene	100-41-4	5.9	5.5
LP002	Consolidated Freightways	Area 1	6/14/1989	S1	5	Subsurface	Ethylbenzene	100-41-4	6.2	5.5
LP991	Arctic Cooperage	Area 5	10/19/2000	EX3		Subsurface	Ethylbenzene	100-41-4	6.5	5.5
LP003	Flint Hills	Area 3	8/19/2002	REX	3	Subsurface	Ethylbenzene	100-41-4	6.7	5.5
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS9929	2.5	Subsurface	Ethylbenzene	100-41-4	6.7	5.5
LP019	Tesoro Terminal #1	Area 3	7/10/1989	TB1TR	3.5	Subsurface	Ethylbenzene	100-41-4	6.7	5.5
LP019	Tesoro Terminal #1	Area 3	5/10/1999	FS9911	2.5	Subsurface	Ethylbenzene	100-41-4	6.8	5.5
LP991	Arctic Cooperage	Area 5	10/19/2000	EX3		Subsurface	Ethylbenzene	100-41-4	6.9	5.5
LP003	Flint Hills	Area 3	1/28/1998	B5	6	Subsurface	Ethylbenzene	100-41-4	7	5.5
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS996	1.5	Subsurface	Ethylbenzene	100-41-4	7	5.5
LP003	Flint Hills	Area 3	1/28/1998	B8	6	Subsurface	Ethylbenzene	100-41-4	7.19	5.5
LP003	Flint Hills	Area 3	4/1/1994	E46	4	Subsurface	Ethylbenzene	100-41-4	7.4	5.5
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	13	Subsurface	Ethylbenzene	100-41-4	7.6	5.5
LP003	Flint Hills	Area 3	10/9/1995	B9A	2	Subsurface	Ethylbenzene	100-41-4	7.6	5.5
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS9911	2.5	Subsurface	Ethylbenzene	100-41-4	7.9	5.5
LP991	Arctic Cooperage	Area 5	8/5/1997	CHSB8	6	Subsurface	Ethylbenzene	100-41-4	8	5.5
LP991	Arctic Cooperage	Area 5	7/15/1996	SB5	7.5	Subsurface	Ethylbenzene	100-41-4	8	5.5
LP019	Tesoro Terminal #1	Area 3	5/10/1999	FS9929	2.5	Subsurface	Ethylbenzene	100-41-4	8.1	5.5
LP003	Flint Hills	Area 3	10/9/1995	B13	15	Subsurface	Ethylbenzene	100-41-4	8.3	5.5
LP019	Tesoro Terminal #1	Area 3	7/29/1998	PW3	6	Subsurface	Ethylbenzene	100-41-4	8.4	5.5
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS9910	2.5	Subsurface	Ethylbenzene	100-41-4	8.9	5.5
SS003	Flint Hills	Area 3	5/10/2002	SDS	4	Subsurface	Ethylbenzene	100-41-4	9.5	5.5
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS10	4	Subsurface	Ethylbenzene	100-41-4	9.5	5.5
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Ethylbenzene	100-41-4	9.6	5.5
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPB11	1	Subsurface	Ethylbenzene	100-41-4	9.6	5.5
LP003	Flint Hills	Area 3	10/6/1995	B18	9	Subsurface	Ethylbenzene	100-41-4	11	5.5
LP003	Flint Hills	Area 3	10/9/1995	B9	1	Subsurface	Ethylbenzene	100-41-4	11	5.5
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Ethylbenzene	100-41-4	11	5.5
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS22		Subsurface	Ethylbenzene	100-41-4	11	5.5

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP991	Arctic Cooperage	Area 5	9/20/1995	AC4		Subsurface	Ethylbenzene	100-41-4	12	5.5
LP991	Arctic Cooperage	Area 5	12/5/1997	CHMW5A	15	Subsurface	Ethylbenzene	100-41-4	12	5.5
LP991	Arctic Cooperage	Area 5	8/5/1997	CHSB8	8	Subsurface	Ethylbenzene	100-41-4	12	5.5
LP991	Arctic Cooperage	Area 5	10/25/2000	EX3		Subsurface	Ethylbenzene	100-41-4	12	5.5
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS10		Subsurface	Ethylbenzene	100-41-4	12	5.5
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS5		Subsurface	Ethylbenzene	100-41-4	12	5.5
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB6	2	Subsurface	Ethylbenzene	100-41-4	12	5.5
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB7	0.5	Surface	Ethylbenzene	100-41-4	12	5.5
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPG2	1.5	Subsurface	Ethylbenzene	100-41-4	12	5.5
LP019	Tesoro Terminal #1	Area 3	10/19/1999	PW24		Subsurface	Ethylbenzene	100-41-4	13	5.5
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS9		Subsurface	Ethylbenzene	100-41-4	13	5.5
LP019	Tesoro Terminal #1	Area 3	7/29/1998	PW12	4	Subsurface	Ethylbenzene	100-41-4	13	5.5
LP991	Arctic Cooperage	Area 5	5/16/1996	303		Subsurface	Ethylbenzene	100-41-4	14	5.5
LP003	Flint Hills	Area 3	3/26/1992	B9	6	Subsurface	Ethylbenzene	100-41-4	14	5.5
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	13	Subsurface	Ethylbenzene	100-41-4	14.3	5.5
LP991	Arctic Cooperage	Area 5	10/24/2000	EX2		Subsurface	Ethylbenzene	100-41-4	17	5.5
LP003	Flint Hills	Area 3	4/1/1994	E32	6	Subsurface	Ethylbenzene	100-41-4	18	5.5
LP019	Tesoro Terminal #1	Area 3	6/7/1999	ESS21		Subsurface	Ethylbenzene	100-41-4	18	5.5
LP991	Arctic Cooperage	Area 5	7/15/1996	SB5	2.5	Subsurface	Ethylbenzene	100-41-4	19	5.5
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS7		Subsurface	Ethylbenzene	100-41-4	20	5.5
LP003	Flint Hills	Area 3	1/28/1998	B3	8	Subsurface	Ethylbenzene	100-41-4	20.5	5.5
LP991	Arctic Cooperage	Area 5	5/16/1996	302		Subsurface	Ethylbenzene	100-41-4	23	5.5
LP991	Arctic Cooperage	Area 5	10/28/1997	CHMW5	15	Subsurface	Ethylbenzene	100-41-4	23	5.5
LP019	Tesoro Terminal #1	Area 3	6/7/1999	ESS20		Subsurface	Ethylbenzene	100-41-4	23	5.5
LP019	Tesoro Terminal #1	Area 3	7/15/1989	PWPL	4.5	Subsurface	Ethylbenzene	100-41-4	23	5.5
LP991	Arctic Cooperage	Area 5	11/18/1997	TR7	6	Subsurface	Ethylbenzene	100-41-4	24	5.5
LP003	Flint Hills	Area 3	8/19/2002	PLOP1	6.5	Subsurface	Ethylbenzene	100-41-4	24	5.5
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB7	1.5	Subsurface	Ethylbenzene	100-41-4	24	5.5
LP991	Arctic Cooperage	Area 5	8/5/1997	CHSB8	8	Subsurface	Ethylbenzene	100-41-4	25	5.5
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Ethylbenzene	100-41-4	26	5.5
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS12		Subsurface	Ethylbenzene	100-41-4	27	5.5
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Ethylbenzene	100-41-4	29	5.5
LP002	Consolidated Freightways	Area 1	6/20/1989	S10	5	Subsurface	Ethylbenzene	100-41-4	30	5.5
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS997	1.5	Subsurface	Ethylbenzene	100-41-4	31	5.5
LP019	Tesoro Terminal #1	Area 3	5/10/1999	FS997	1.5	Subsurface	Ethylbenzene	100-41-4	32	5.5
LP019	Tesoro Terminal #1	Area 3	7/15/1989	TBD	4.5	Subsurface	Ethylbenzene	100-41-4	32	5.5
LP022	Municipal Light & Power	Area 5	4/4/1989	E7		Subsurface	Ethylbenzene	100-41-4	35.1	5.5
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS11		Subsurface	Ethylbenzene	100-41-4	38	5.5
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	5	Subsurface	Ethylbenzene	100-41-4	39	5.5
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Ethylbenzene	100-41-4	39	5.5
LP019	Tesoro Terminal #1	Area 3	7/15/1989	PWPL	4.5	Subsurface	Ethylbenzene	100-41-4	39	5.5
LP991	Arctic Cooperage	Area 5	9/20/1995	AC5		Subsurface	Ethylbenzene	100-41-4	40	5.5
LP991	Arctic Cooperage	Area 5	5/16/1996	304		Subsurface	Ethylbenzene	100-41-4	42	5.5
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	8	Subsurface	Ethylbenzene	100-41-4	44	5.5

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	6	Subsurface	Ethylbenzene	100-41-4	46	5.5
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS5		Subsurface	Ethylbenzene	100-41-4	46	5.5
LP127	Post Road Company - Tenancy	Area 5	7/19/1990	ESL5		Subsurface	Ethylbenzene	100-41-4	47.8	5.5
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Ethylbenzene	100-41-4	48	5.5
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	5	Subsurface	Ethylbenzene	100-41-4	53	5.5
LP003	Flint Hills	Area 3	1/28/1998	B2	9	Subsurface	Ethylbenzene	100-41-4	55.5	5.5
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Ethylbenzene	100-41-4	57	5.5
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Ethylbenzene	100-41-4	60	5.5
LP003	Flint Hills	Area 3	10/11/1995	MW1	8	Subsurface	Ethylbenzene	100-41-4	67	5.5
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS8		Subsurface	Ethylbenzene	100-41-4	72	5.5
LP003	Flint Hills	Area 3	5/30/2002	RRTS9	2	Subsurface	Ethylbenzene	100-41-4	77	5.5
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Ethylbenzene	100-41-4	80	5.5
LP019	Tesoro Terminal #1	Area 3	7/30/1998	PW19B	4	Subsurface	Ethylbenzene	100-41-4	82	5.5
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS13		Subsurface	Ethylbenzene	100-41-4	86	5.5
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Ethylbenzene	100-41-4	92	5.5
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	8	Subsurface	Ethylbenzene	100-41-4	96	5.5
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Ethylbenzene	100-41-4	99	5.5
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Ethylbenzene	100-41-4	100	5.5
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	6	Subsurface	Ethylbenzene	100-41-4	110	5.5
LP003	Flint Hills	Area 3	10/29/1990	S7	2	Subsurface	Ethylbenzene	100-41-4	110	5.5
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Ethylbenzene	100-41-4	120	5.5
RY065	Railyard	Area 2	6/7/1991	PIT1	7	Subsurface	Ethylbenzene	100-41-4	120	5.5
LP003	Flint Hills	Area 3	5/30/2002	RRTS1	3	Subsurface	Ethylbenzene	100-41-4	130	5.5
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS8	2	Subsurface	Ethylbenzene	100-41-4	130	5.5
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS16	1	Subsurface	Ethylbenzene	100-41-4	130	5.5
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG1		Subsurface	Ethylbenzene	100-41-4	139	5.5
LP019	Tesoro Terminal #1	Area 3	7/31/1998	PW7	5	Subsurface	Ethylbenzene	100-41-4	140	5.5
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	8	Subsurface	Ethylbenzene	100-41-4	150	5.5
LP003	Flint Hills	Area 3	8/19/2002	PLOP2	2	Subsurface	Ethylbenzene	100-41-4	180	5.5
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Ethylbenzene	100-41-4	190	5.5
LP003	Flint Hills	Area 3	5/31/2002	RRTS	3	Subsurface	Ethylbenzene	100-41-4	240	5.5
LP003	Flint Hills	Area 3	10/29/1990	S6	3	Subsurface	Ethylbenzene	100-41-4	260	5.5
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB6	0.5	Surface	Ethylbenzene	100-41-4	340	5.5
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPG1	0	Surface	Ethylbenzene	100-41-4	340	5.5
LP003	Flint Hills	Area 3	10/29/1990	S5	3	Subsurface	Ethylbenzene	100-41-4	850	5.5
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG1		Subsurface	Ethylbenzene	100-41-4	1139	5.5
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS13		Subsurface	Gasoline Range Hydrocarbons	GRO	310	300
LP003	Flint Hills	Area 3	4/1/1994	EA55	4	Subsurface	Gasoline Range Hydrocarbons	GRO	320	300
LP019	Tesoro Terminal #1	Area 3	10/19/1999	PW25		Subsurface	Gasoline Range Hydrocarbons	GRO	320	300
LP003	Flint Hills	Area 3	4/1/1994	W4	5	Subsurface	Gasoline Range Hydrocarbons	GRO	330	300
LP019	Tesoro Terminal #1	Area 3	10/19/1999	PW23		Subsurface	Gasoline Range Hydrocarbons	GRO	330	300
LP003	Flint Hills	Area 3	4/1/1994	E32	9	Subsurface	Gasoline Range Hydrocarbons	GRO	340	300
LP003	Flint Hills	Area 3	9/24/1992	SP4S5	2	Subsurface	Gasoline Range Hydrocarbons	GRO	340	300
LP137	Laidlaw Transit	Area 5	10/10/1990	07BS		Subsurface	Gasoline Range Hydrocarbons	GRO	340	300

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP003	Flint Hills	Area 3	1/28/1998	B4	8	Subsurface	Gasoline Range Hydrocarbons	GRO	345	300
LP127	Post Road Company - Tenancy	Area 5	8/25/1992	SS22		Subsurface	Gasoline Range Hydrocarbons	GRO	350	300
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS22		Subsurface	Gasoline Range Hydrocarbons	GRO	360	300
LP137	Laidlaw Transit	Area 5	10/10/1990	02N		Subsurface	Gasoline Range Hydrocarbons	GRO	376	300
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPB11	1	Subsurface	Gasoline Range Hydrocarbons	GRO	380	300
LP003	Flint Hills	Area 3	1/28/1998	B12	6	Subsurface	Gasoline Range Hydrocarbons	GRO	393	300
LP003	Flint Hills	Area 3	1/28/1998	B3	6	Subsurface	Gasoline Range Hydrocarbons	GRO	393	300
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS1		Subsurface	Gasoline Range Hydrocarbons	GRO	400	300
LP137	Laidlaw Transit	Area 5	11/23/1998	CHMWE2	9	Subsurface	Gasoline Range Hydrocarbons	GRO	410	300
LP019	Tesoro Terminal #1	Area 3	5/10/1999	FS9911	2.5	Subsurface	Gasoline Range Hydrocarbons	GRO	410	300
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS9929	2.5	Subsurface	Gasoline Range Hydrocarbons	GRO	418	300
LP003	Flint Hills	Area 3	6/18/2002	DS1	6.5	Subsurface	Gasoline Range Hydrocarbons	GRO	420	300
LP003	Flint Hills	Area 3	1/28/1998	B11	6	Subsurface	Gasoline Range Hydrocarbons	GRO	436	300
LP003	Flint Hills	Area 3	4/1/1994	E32	4	Subsurface	Gasoline Range Hydrocarbons	GRO	440	300
LP019	Tesoro Terminal #1	Area 3	7/11/1989	TB2EX	8	Subsurface	Gasoline Range Hydrocarbons	GRO	440	300
LP003	Flint Hills	Area 3	9/24/1992	SP2S	2	Subsurface	Gasoline Range Hydrocarbons	GRO	450	300
LP003	Flint Hills	Area 3	9/25/1992	SP21S1	2	Subsurface	Gasoline Range Hydrocarbons	GRO	470	300
LP003	Flint Hills	Area 3	4/1/1994	W60	12	Subsurface	Gasoline Range Hydrocarbons	GRO	480	300
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS9911	2.5	Subsurface	Gasoline Range Hydrocarbons	GRO	482	300
LP003	Flint Hills	Area 3	10/9/1995	B9B	2	Subsurface	Gasoline Range Hydrocarbons	GRO	520	300
LP003	Flint Hills	Area 3	3/26/1992	B11	4	Subsurface	Gasoline Range Hydrocarbons	GRO	530	300
LP991	Arctic Cooperage	Area 5	8/5/1997	CHSB8	6	Subsurface	Gasoline Range Hydrocarbons	GRO	550	300
LP019	Tesoro Terminal #1	Area 3	7/30/1998	FS21	1.5	Subsurface	Gasoline Range Hydrocarbons	GRO	550	300
LP003	Flint Hills	Area 3	1/28/1998	B10	6	Subsurface	Gasoline Range Hydrocarbons	GRO	585	300
LP003	Flint Hills	Area 3	10/10/1995	B2A	9	Subsurface	Gasoline Range Hydrocarbons	GRO	590	300
LP003	Flint Hills	Area 3	2/25/1992	B1	4	Subsurface	Gasoline Range Hydrocarbons	GRO	590	300
LP003	Flint Hills	Area 3	4/1/1994	W155	4	Subsurface	Gasoline Range Hydrocarbons	GRO	590	300
LP003	Flint Hills	Area 3	4/1/1994	W170	4	Subsurface	Gasoline Range Hydrocarbons	GRO	590	300
LP019	Tesoro Terminal #1	Area 3	7/13/1989	TB8TR	4	Subsurface	Gasoline Range Hydrocarbons	GRO	590	300
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Gasoline Range Hydrocarbons	GRO	620	300
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS9910	2.5	Subsurface	Gasoline Range Hydrocarbons	GRO	635	300
LP991	Arctic Cooperage	Area 5	5/16/1996	301		Subsurface	Gasoline Range Hydrocarbons	GRO	680	300
LP991	Arctic Cooperage	Area 5	5/28/1996	SB7	12.5	Subsurface	Gasoline Range Hydrocarbons	GRO	690	300
LP002	Consolidated Freightways	Area 1	8/15/1989	MW1	5	Subsurface	Gasoline Range Hydrocarbons	GRO	690	300
LP002	Consolidated Freightways	Area 1	8/15/1989	S2	5	Subsurface	Gasoline Range Hydrocarbons	GRO	690	300
LP003	Flint Hills	Area 3	4/1/1994	W40	7	Subsurface	Gasoline Range Hydrocarbons	GRO	690	300
LP003	Flint Hills	Area 3	8/19/2002	REX	3	Subsurface	Gasoline Range Hydrocarbons	GRO	720	300
LP991	Arctic Cooperage	Area 5	8/5/1997	CHSB8	8	Subsurface	Gasoline Range Hydrocarbons	GRO	730	300
LP003	Flint Hills	Area 3	4/1/1994	E35	4	Subsurface	Gasoline Range Hydrocarbons	GRO	730	300
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB6	2	Subsurface	Gasoline Range Hydrocarbons	GRO	750	300
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPG2	1.5	Subsurface	Gasoline Range Hydrocarbons	GRO	750	300
LP003	Flint Hills	Area 3	4/1/1994	E28	4	Subsurface	Gasoline Range Hydrocarbons	GRO	770	300
LP003	Flint Hills	Area 3	4/1/1994	E46	4	Subsurface	Gasoline Range Hydrocarbons	GRO	770	300
LP003	Flint Hills	Area 3	1/28/1998	B8	8	Subsurface	Gasoline Range Hydrocarbons	GRO	779	300

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS6		Subsurface	Gasoline Range Hydrocarbons	GRO	790	300
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS4		Subsurface	Gasoline Range Hydrocarbons	GRO	820	300
LP003	Flint Hills	Area 3	1/28/1998	B3	8	Subsurface	Gasoline Range Hydrocarbons	GRO	823	300
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS997	1.5	Subsurface	Gasoline Range Hydrocarbons	GRO	833	300
LP003	Flint Hills	Area 3	10/14/1997	HO1		Subsurface	Gasoline Range Hydrocarbons	GRO	840	300
LP003	Flint Hills	Area 3	4/1/1994	W170	4	Subsurface	Gasoline Range Hydrocarbons	GRO	850	300
LP019	Tesoro Terminal #1	Area 3	7/11/1989	TB1EX	11	Subsurface	Gasoline Range Hydrocarbons	GRO	850	300
LP019	Tesoro Terminal #1	Area 3	7/15/1989	MW1	7	Subsurface	Gasoline Range Hydrocarbons	GRO	870	300
LP003	Flint Hills	Area 3	8/19/2002	PLOP1	6.5	Subsurface	Gasoline Range Hydrocarbons	GRO	880	300
LP003	Flint Hills	Area 3	1/28/1998	B5	6	Subsurface	Gasoline Range Hydrocarbons	GRO	900	300
LP991	Arctic Cooperage	Area 5	5/29/1996	SB5	7.5	Subsurface	Gasoline Range Hydrocarbons	GRO	910	300
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS5		Subsurface	Gasoline Range Hydrocarbons	GRO	920	300
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Gasoline Range Hydrocarbons	GRO	1000	300
LP019	Tesoro Terminal #1	Area 3	10/19/1999	PW24		Subsurface	Gasoline Range Hydrocarbons	GRO	1000	300
LP019	Tesoro Terminal #1	Area 3	7/29/1998	PW12	4.5	Subsurface	Gasoline Range Hydrocarbons	GRO	1100	300
LP019	Tesoro Terminal #1	Area 3	7/29/1998	PW3	6	Subsurface	Gasoline Range Hydrocarbons	GRO	1100	300
LP003	Flint Hills	Area 3	1/28/1998	B7	6	Subsurface	Gasoline Range Hydrocarbons	GRO	1110	300
LP003	Flint Hills	Area 3	1/28/1998	B7	9	Subsurface	Gasoline Range Hydrocarbons	GRO	1110	300
LP991	Arctic Cooperage	Area 5	5/16/1996	303		Subsurface	Gasoline Range Hydrocarbons	GRO	1200	300
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG4		Subsurface	Gasoline Range Hydrocarbons	GRO	1205	300
LP991	Arctic Cooperage	Area 5	5/16/1996	302		Subsurface	Gasoline Range Hydrocarbons	GRO	1300	300
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	13	Subsurface	Gasoline Range Hydrocarbons	GRO	1300	300
LP991	Arctic Cooperage	Area 5	11/18/1997	TR7	6	Subsurface	Gasoline Range Hydrocarbons	GRO	1300	300
LP003	Flint Hills	Area 3	10/6/1995	B18	9	Subsurface	Gasoline Range Hydrocarbons	GRO	1300	300
LP003	Flint Hills	Area 3	3/26/1992	B9	6	Subsurface	Gasoline Range Hydrocarbons	GRO	1300	300
LP019	Tesoro Terminal #1	Area 3	7/29/1998	PW12	4	Subsurface	Gasoline Range Hydrocarbons	GRO	1300	300
LP137	Laidlaw Transit	Area 5	10/10/1990	01E		Subsurface	Gasoline Range Hydrocarbons	GRO	1340	300
LP003	Flint Hills	Area 3	1/28/1998	B2	9	Subsurface	Gasoline Range Hydrocarbons	GRO	1350	300
LP137	Laidlaw Transit	Area 5	10/11/1990	D215BN		Subsurface	Gasoline Range Hydrocarbons	GRO	1360	300
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Gasoline Range Hydrocarbons	GRO	1400	300
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS9		Subsurface	Gasoline Range Hydrocarbons	GRO	1400	300
LP991	Arctic Cooperage	Area 5	5/28/1996	SB7	5	Subsurface	Gasoline Range Hydrocarbons	GRO	1430	300
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS10		Subsurface	Gasoline Range Hydrocarbons	GRO	1500	300
LP003	Flint Hills	Area 3	10/9/1995	B9	1	Subsurface	Gasoline Range Hydrocarbons	GRO	1600	300
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS7		Subsurface	Gasoline Range Hydrocarbons	GRO	1700	300
LP003	Flint Hills	Area 3	1/28/1998	B8	6	Subsurface	Gasoline Range Hydrocarbons	GRO	1840	300
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPB10	1	Subsurface	Gasoline Range Hydrocarbons	GRO	1900	300
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS10	4	Subsurface	Gasoline Range Hydrocarbons	GRO	2000	300
LP003	Flint Hills	Area 3	10/9/1995	B13	15	Subsurface	Gasoline Range Hydrocarbons	GRO	2100	300
LP003	Flint Hills	Area 3	4/1/1994	E55	4	Subsurface	Gasoline Range Hydrocarbons	GRO	2100	300
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS7	1	Subsurface	Gasoline Range Hydrocarbons	GRO	2100	300
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Gasoline Range Hydrocarbons	GRO	2300	300
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	8	Subsurface	Gasoline Range Hydrocarbons	GRO	2300	300
LP991	Arctic Cooperage	Area 5	5/16/1996	304		Subsurface	Gasoline Range Hydrocarbons	GRO	2400	300

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP003	Flint Hills	Area 3	4/1/1994	E55	4	Subsurface	Gasoline Range Hydrocarbons	GRO	2500	300
LP003	Flint Hills	Area 3	10/29/1990	S7	2	Subsurface	Gasoline Range Hydrocarbons	GRO	2500	300
LP003	Flint Hills	Area 3	3/26/1992	B10	4	Subsurface	Gasoline Range Hydrocarbons	GRO	2700	300
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS12		Subsurface	Gasoline Range Hydrocarbons	GRO	2700	300
LP003	Flint Hills	Area 3	5/31/2002	RRTS	3	Subsurface	Gasoline Range Hydrocarbons	GRO	2900	300
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	8	Subsurface	Gasoline Range Hydrocarbons	GRO	3000	300
LP003	Flint Hills	Area 3	4/1/1994	E35	10	Subsurface	Gasoline Range Hydrocarbons	GRO	3100	300
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	5	Subsurface	Gasoline Range Hydrocarbons	GRO	3100	300
LP003	Flint Hills	Area 3	10/11/1995	MW1	8	Subsurface	Gasoline Range Hydrocarbons	GRO	3200	300
LP003	Flint Hills	Area 3	4/1/1994	E32	6	Subsurface	Gasoline Range Hydrocarbons	GRO	3400	300
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS11		Subsurface	Gasoline Range Hydrocarbons	GRO	3400	300
LP019	Tesoro Terminal #1	Area 3	7/10/1989	TB1TR	3.5	Subsurface	Gasoline Range Hydrocarbons	GRO	3500	300
LP019	Tesoro Terminal #1	Area 3	7/15/1989	PWPL	4.5	Subsurface	Gasoline Range Hydrocarbons	GRO	3500	300
LP002	Consolidated Freightways	Area 1	6/20/1989	S10	5	Subsurface	Gasoline Range Hydrocarbons	GRO	3700	300
LP019	Tesoro Terminal #1	Area 3	7/15/1989	PWPL	4.5	Subsurface	Gasoline Range Hydrocarbons	GRO	3700	300
LP019	Tesoro Terminal #1	Area 3	7/15/1989	TB6EX	5.5	Subsurface	Gasoline Range Hydrocarbons	GRO	3800	300
LP003	Flint Hills	Area 3	5/31/2002	RRTS17	3	Subsurface	Gasoline Range Hydrocarbons	GRO	4100	300
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS16	1	Subsurface	Gasoline Range Hydrocarbons	GRO	4200	300
LP003	Flint Hills	Area 3	1/28/1998	B6	6	Subsurface	Gasoline Range Hydrocarbons	GRO	4350	300
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG2		Subsurface	Gasoline Range Hydrocarbons	GRO	4416	300
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Gasoline Range Hydrocarbons	GRO	4500	300
LP019	Tesoro Terminal #1	Area 3	6/7/1999	ESS20		Subsurface	Gasoline Range Hydrocarbons	GRO	4600	300
LP003	Flint Hills	Area 3	8/19/2002	PLOP2	2	Subsurface	Gasoline Range Hydrocarbons	GRO	4900	300
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB7	1.5	Subsurface	Gasoline Range Hydrocarbons	GRO	5100	300
LP019	Tesoro Terminal #1	Area 3	7/31/1998	PW7	5	Subsurface	Gasoline Range Hydrocarbons	GRO	5200	300
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS2	1	Subsurface	Gasoline Range Hydrocarbons	GRO	5300	300
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS5		Subsurface	Gasoline Range Hydrocarbons	GRO	5700	300
LP991	Arctic Cooperage	Area 5	5/29/1996	SB5	2.5	Subsurface	Gasoline Range Hydrocarbons	GRO	5800	300
RY065	Railyard	Area 2	6/7/1991	PIT1	7	Subsurface	Gasoline Range Hydrocarbons	GRO	5800	300
LP019	Tesoro Terminal #1	Area 3	6/7/1999	ESS21		Subsurface	Gasoline Range Hydrocarbons	GRO	5900	300
LP019	Tesoro Terminal #1	Area 3	7/30/1998	PW19B	4	Subsurface	Gasoline Range Hydrocarbons	GRO	6100	300
LP002	Consolidated Freightways	Area 1	6/14/1989	S1	5	Subsurface	Gasoline Range Hydrocarbons	GRO	6200	300
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Gasoline Range Hydrocarbons	GRO	6200	300
LP003	Flint Hills	Area 3	10/29/1990	S6	3	Subsurface	Gasoline Range Hydrocarbons	GRO	6700	300
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS8		Subsurface	Gasoline Range Hydrocarbons	GRO	6900	300
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB7	0.5	Surface	Gasoline Range Hydrocarbons	GRO	7000	300
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	6	Subsurface	Gasoline Range Hydrocarbons	GRO	7100	300
LP019	Tesoro Terminal #1	Area 3	7/13/1989	TB5TR	4.5	Subsurface	Gasoline Range Hydrocarbons	GRO	7100	300
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Gasoline Range Hydrocarbons	GRO	7200	300
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS13		Subsurface	Gasoline Range Hydrocarbons	GRO	7700	300
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Gasoline Range Hydrocarbons	GRO	8400	300
LP003	Flint Hills	Area 3	4/1/1994	E33	4	Subsurface	Gasoline Range Hydrocarbons	GRO	9000	300
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS8	2	Subsurface	Gasoline Range Hydrocarbons	GRO	9400	300
LP003	Flint Hills	Area 3	5/30/2002	RRTS1	3	Subsurface	Gasoline Range Hydrocarbons	GRO	10000	300

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Gasoline Range Hydrocarbons	GRO	10000	300
LP003	Flint Hills	Area 3	5/31/2002	RRTS	3	Subsurface	Gasoline Range Hydrocarbons	GRO	12000	300
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB6	0.5	Surface	Gasoline Range Hydrocarbons	GRO	13000	300
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPG1	0	Surface	Gasoline Range Hydrocarbons	GRO	13000	300
LP003	Flint Hills	Area 3	5/30/2002	RRTS9	2	Subsurface	Gasoline Range Hydrocarbons	GRO	18000	300
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG1		Subsurface	Gasoline Range Hydrocarbons	GRO	21454	300
LP003	Flint Hills	Area 3	10/29/1990	S5	3	Subsurface	Gasoline Range Hydrocarbons	GRO	22000	300
LP019	Tesoro Terminal #1	Area 3	7/15/1989	TB4EX	7.5	Subsurface	Gasoline Range Hydrocarbons	GRO	23000	300
SS003	Flint Hills	Area 3	5/10/2002	SDS	4	Subsurface	Gasoline Range Hydrocarbons	GRO	37000	300
LP019	Tesoro Terminal #1	Area 3	7/15/1989	TBD	4.5	Subsurface	Gasoline Range Hydrocarbons	GRO	290000	300
LP019	Tesoro Terminal #1	Area 3	1/1/1989	TBD	3	Subsurface	Gasoline Range Hydrocarbons	GRO	290000	300
LP991	Arctic Cooperage	Area 5	8/5/1997	CHSB8	8	Subsurface	Isopropylbenzene	98-82-8	763	227
LP024	Prescott Equipment	Area 4	8/12/1998	B3	7	Subsurface	Mercury	7439-97-6	2.27	1.4
LP024	Prescott Equipment	Area 4	6/11/1999	PEC	2	Subsurface	Mercury	7439-97-6	4.43	1.4
LP024	Prescott Equipment	Area 4	6/11/1999	PECI45	2	Subsurface	Mercury	7439-97-6	4.43	1.4
LP024	Prescott Equipment	Area 4	6/11/1999	I51	2	Subsurface	Mercury	7439-97-6	4.43	1.4
LP127	Post Road Company - Tenancy	Area 5	8/31/1999	B5	11.5	Subsurface	Mercury	7439-97-6	5.01	1.4
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Mercury	7439-97-6	5.25	1.4
LP024	Prescott Equipment	Area 4	9/17/1999	COMPOSITE		Subsurface	Mercury	7439-97-6	7.2	1.4
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Mercury	7439-97-6	8.5	1.4
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Mercury	7439-97-6	9	1.4
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Mercury	7439-97-6	9.7	1.4
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Mercury	7439-97-6	9.95	1.4
LP024	Prescott Equipment	Area 4	6/11/1999	PECI28	2	Subsurface	Mercury	7439-97-6	11.1	1.4
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Mercury	7439-97-6	11.6	1.4
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Mercury	7439-97-6	13.5	1.4
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Mercury	7439-97-6	14.5	1.4
LP024	Prescott Equipment	Area 4	6/11/1999	PECI29	2	Subsurface	Mercury	7439-97-6	15.4	1.4
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Mercury	7439-97-6	15.9	1.4
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Mercury	7439-97-6	17.5	1.4
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Mercury	7439-97-6	17.8	1.4
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Mercury	7439-97-6	21.4	1.4
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Mercury	7439-97-6	26.1	1.4
LP024	Prescott Equipment	Area 4	8/12/1998	SS2	0.5	Surface	Mercury	7439-97-6	27.8	1.4
LP024	Prescott Equipment	Area 4	8/12/1998	SS2	0.5	Surface	Mercury	7439-97-6	30.5	1.4
LP024	Prescott Equipment	Area 4	8/12/1998	SS2	0.5	Surface	Mercury	7439-97-6	31.2	1.4
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Mercury	7439-97-6	38.7	1.4
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Mercury	7439-97-6	41	1.4
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Mercury	7439-97-6	88.5	1.4
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Mercury	7439-97-6	180	1.4
LP003	Flint Hills	Area 3	4/1/1994	E84	4	Subsurface	Methylene chloride	75-09-2	0.016	0.015
LP003	Flint Hills	Area 3	4/1/1994	W38	4	Subsurface	Methylene chloride	75-09-2	0.018	0.015
LP003	Flint Hills	Area 3	4/1/1994	E110	4	Subsurface	Methylene chloride	75-09-2	0.019	0.015
LP003	Flint Hills	Area 3	4/1/1994	E110	9	Subsurface	Methylene chloride	75-09-2	0.019	0.015

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP003	Flint Hills	Area 3	4/1/1994	E40	6	Subsurface	Methylene chloride	75-09-2	0.02	0.015
LP003	Flint Hills	Area 3	4/1/1994	W40	9	Subsurface	Methylene chloride	75-09-2	0.02	0.015
LP003	Flint Hills	Area 3	4/1/1994	W7	10	Subsurface	Methylene chloride	75-09-2	0.02	0.015
LP003	Flint Hills	Area 3	4/1/1994	W9	14	Subsurface	Methylene chloride	75-09-2	0.02	0.015
LP003	Flint Hills	Area 3	4/1/1994	W20	4	Subsurface	Methylene chloride	75-09-2	0.024	0.015
LP003	Flint Hills	Area 3	4/1/1994	W40	5	Subsurface	Methylene chloride	75-09-2	0.025	0.015
LP003	Flint Hills	Area 3	4/1/1994	W40	6	Subsurface	Methylene chloride	75-09-2	0.025	0.015
LP003	Flint Hills	Area 3	4/1/1994	W37	6	Subsurface	Methylene chloride	75-09-2	0.026	0.015
LP003	Flint Hills	Area 3	4/1/1994	W39	4	Subsurface	Methylene chloride	75-09-2	0.03	0.015
LP991	Arctic Cooperage	Area 5	12/3/1997	CHMW4A	4	Subsurface	Methylene chloride	75-09-2	0.031	0.015
LP003	Flint Hills	Area 3	4/1/1994	W197	2	Subsurface	Methylene chloride	75-09-2	0.032	0.015
LP003	Flint Hills	Area 3	4/1/1994	W60	2	Subsurface	Methylene chloride	75-09-2	0.032	0.015
LP003	Flint Hills	Area 3	4/1/1994	W18	4	Subsurface	Methylene chloride	75-09-2	0.033	0.015
RY065	Railyard	Area 2	8/20/2004	SDE1	0.5	Surface	Methylene chloride	75-09-2	0.033	0.015
RY065	Railyard	Area 2	8/20/2004	TP01	0.5	Surface	Methylene chloride	75-09-2	0.037	0.015
LP003	Flint Hills	Area 3	4/1/1994	E101	10	Subsurface	Methylene chloride	75-09-2	0.043	0.015
LP003	Flint Hills	Area 3	4/1/1994	W60	12	Subsurface	Methylene chloride	75-09-2	0.044	0.015
LP003	Flint Hills	Area 3	4/1/1994	W9	14	Subsurface	Methylene chloride	75-09-2	0.047	0.015
RY065	Railyard	Area 2	8/23/2004	TP03	0.5	Surface	Methylene chloride	75-09-2	0.056	0.015
LP003	Flint Hills	Area 3	4/1/1994	E33	4	Subsurface	Methylene chloride	75-09-2	0.064	0.015
LP127	Post Road Company - Tenancy	Area 5	9/25/1999	B13	7	Subsurface	Methylene chloride	75-09-2	0.0848	0.015
RY065	Railyard	Area 2	8/20/2004	SDE1	0.5	Surface	Methylene chloride	75-09-2	0.088	0.015
LP137	Laidlaw Transit	Area 5	11/23/1998	CHMWE4	17	Subsurface	Methylene chloride	75-09-2	0.14	0.015
RY065	Railyard	Area 2	6/1/1992	MW2	8	Subsurface	Methylene chloride	75-09-2	0.19	0.015
LP065	Princess Tours	Area 2	5/29/1992	MW1	11.5	Subsurface	Methylene chloride	75-09-2	0.2	0.015
LP065	Princess Tours	Area 2	6/1/1992	4MW	16.5	Subsurface	Methylene chloride	75-09-2	0.23	0.015
LP065	Princess Tours	Area 2	5/30/1992	SB2	11.5	Subsurface	Methylene chloride	75-09-2	0.23	0.015
LP065	Princess Tours	Area 2	5/30/1992	SB3	6.5	Subsurface	Methylene chloride	75-09-2	0.24	0.015
RY065	Railyard	Area 2	6/1/1992	MW2	12	Subsurface	Methylene chloride	75-09-2	0.24	0.015
LP065	Princess Tours	Area 2	6/1/1992	MW3	11.5	Subsurface	Methylene chloride	75-09-2	0.25	0.015
LP065	Princess Tours	Area 2	6/1/1992	4MW	11.5	Subsurface	Methylene chloride	75-09-2	0.25	0.015
LP065	Princess Tours	Area 2	6/2/1992	SB4	6	Subsurface	Methylene chloride	75-09-2	0.25	0.015
LP065	Princess Tours	Area 2	6/3/1992	SB6	16.5	Subsurface	Methylene chloride	75-09-2	0.25	0.015
LP065	Princess Tours	Area 2	6/1/1992	4MW	16.5	Subsurface	Methylene chloride	75-09-2	0.27	0.015
LP065	Princess Tours	Area 2	6/2/1992	SB5	16.5	Subsurface	Methylene chloride	75-09-2	0.27	0.015
LP065	Princess Tours	Area 2	6/1/1992	MW3	6.5	Subsurface	Methylene chloride	75-09-2	0.28	0.015
LP065	Princess Tours	Area 2	5/29/1992	MW1	16.5	Subsurface	Methylene chloride	75-09-2	0.3	0.015
LP065	Princess Tours	Area 2	6/2/1992	SB4	16	Subsurface	Methylene chloride	75-09-2	0.3	0.015
LP065	Princess Tours	Area 2	6/2/1992	SB5	21.5	Subsurface	Methylene chloride	75-09-2	0.32	0.015
LP065	Princess Tours	Area 2	5/30/1992	SB3	11.5	Subsurface	Methylene chloride	75-09-2	0.35	0.015
LP137	Laidlaw Transit	Area 5	11/23/1998	CHMWE4	16	Subsurface	Methylene chloride	75-09-2	0.36	0.015
LP065	Princess Tours	Area 2	5/29/1992	SB1	16.5	Subsurface	Methylene chloride	75-09-2	0.38	0.015
LP065	Princess Tours	Area 2	5/30/1992	SB2	1	Subsurface	Methylene chloride	75-09-2	0.4	0.015
LP137	Laidlaw Transit	Area 5	11/24/1998	CHMWE5	6	Subsurface	Methylene chloride	75-09-2	0.63	0.015

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP003	Flint Hills	Area 3	4/1/1994	W105	4	Subsurface	Methylene chloride	75-09-2	5	0.015
LP003	Flint Hills	Area 3	4/1/1994	W40	7	Subsurface	Methylene chloride	75-09-2	8.44	0.015
LP003	Flint Hills	Area 3	4/1/1994	W220	4	Subsurface	Naphthalene	91-20-3	22	21
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Naphthalene	91-20-3	22	21
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Naphthalene	91-20-3	23	21
LP991	Arctic Cooperage	Area 5	7/15/1996	SB5	2.5	Subsurface	Naphthalene	91-20-3	23	21
LP991	Arctic Cooperage	Area 5	10/28/1997	CHMW5	15	Subsurface	Naphthalene	91-20-3	24	21
LP991	Arctic Cooperage	Area 5	12/5/1997	CHMW5A	10	Subsurface	Naphthalene	91-20-3	24	21
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	5	Subsurface	Naphthalene	91-20-3	29	21
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	6	Subsurface	Naphthalene	91-20-3	30	21
LP991	Arctic Cooperage	Area 5	9/20/1995	AC5		Subsurface	Naphthalene	91-20-3	32	21
LP991	Arctic Cooperage	Area 5	8/5/1997	CHSB8	8	Subsurface	Naphthalene	91-20-3	32	21
LP991	Arctic Cooperage	Area 5	12/5/1997	CHMW5A	15	Subsurface	Naphthalene	91-20-3	33	21
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	6	Subsurface	Naphthalene	91-20-3	33	21
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Naphthalene	91-20-3	36	21
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Naphthalene	91-20-3	37	21
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Naphthalene	91-20-3	40	21
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	5	Subsurface	Naphthalene	91-20-3	45	21
LP991	Arctic Cooperage	Area 5	11/18/1997	TR7	6	Subsurface	Naphthalene	91-20-3	46	21
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Naphthalene	91-20-3	49	21
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Naphthalene	91-20-3	50	21
LP065	Princess Tours	Area 2	5/6/1994	SB4	4	Subsurface	Naphthalene	91-20-3	60	21
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Naphthalene	91-20-3	72	21
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Naphthalene	91-20-3	72	21
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Naphthalene	91-20-3	77	21
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	8	Subsurface	Naphthalene	91-20-3	100	21
LP991	Arctic Cooperage	Area 5	8/5/1997	CHSB8	8	Subsurface	Naphthalene	91-20-3	130	21
LP120	KAPP	Area 6	10/7/1998	145E		Subsurface	Nickel	7440-02-0	94.4	87
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Nickel	7440-02-0	111	87
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Nickel	7440-02-0	114	87
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Nickel	7440-02-0	159	87
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Nickel	7440-02-0	645	87
LP024	Prescott Equipment	Area 4	8/11/1999	PEC19A	1	Subsurface	Residual Range Organics	RRO	11100	11000
LP991	Arctic Cooperage	Area 5	11/13/1997	TR3	5	Subsurface	Residual Range Organics	RRO	12000	11000
LP024	Prescott Equipment	Area 4	8/12/1998	SS3	0.5	Surface	Residual Range Organics	RRO	12900	11000
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	6	Subsurface	Residual Range Organics	RRO	15000	11000
LP991	Arctic Cooperage	Area 5	11/18/1997	TR7	6	Subsurface	Residual Range Organics	RRO	15000	11000
LP024	Prescott Equipment	Area 4	8/11/1999	PEC26A	2	Subsurface	Residual Range Organics	RRO	16600	11000
LP003	Flint Hills	Area 3	10/11/1995	MW1	8	Subsurface	Residual Range Organics	RRO	17000	11000
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	4	Subsurface	Residual Range Organics	RRO	19110	11000
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	4	Subsurface	Residual Range Organics	RRO	20000	11000
LP024	Prescott Equipment	Area 4	9/30/1999	PEC1	1	Subsurface	Residual Range Organics	RRO	30500	11000
LP024	Prescott Equipment	Area 4	8/11/1999	PEC20A	1	Subsurface	Residual Range Organics	RRO	30500	11000
LP991	Arctic Cooperage	Area 5	11/13/1997	TR1	2	Subsurface	Residual Range Organics	RRO	58000	11000

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP024	Prescott Equipment	Area 4	8/11/1999	PEC	2	Subsurface	Residual Range Organics	RRO	81800	11000
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Selenium	7782-49-2	29.8	3.5
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Selenium	7782-49-2	31.4	3.5
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Selenium	7782-49-2	32.9	3.5
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Selenium	7782-49-2	33.4	3.5
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Selenium	7782-49-2	33.4	3.5
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Selenium	7782-49-2	36.3	3.5
RY065	Railyard	Area 2	6/23/1987	PIT1	2	Subsurface	Selenium	7782-49-2	36.5	3.5
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Selenium	7782-49-2	37.4	3.5
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Selenium	7782-49-2	40.7	3.5
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Selenium	7782-49-2	44.3	3.5
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Selenium	7782-49-2	47.1	3.5
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Selenium	7782-49-2	47.3	3.5
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Selenium	7782-49-2	48.3	3.5
RY065	Railyard	Area 2	6/23/1987	PIT1	1	Subsurface	Selenium	7782-49-2	52	3.5
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Selenium	7782-49-2	70	3.5
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Selenium	7782-49-2	70.6	3.5
RY065	Railyard	Area 2	6/23/1987	PIT1		Subsurface	Selenium	7782-49-2	139	3.5
RY065	Railyard	Area 2	6/23/1987	PIT1	0.5	Surface	Silver	7440-22-4	31.7	21
LP022	Municipal Light & Power	Area 5	9/30/1991	B7	6	Subsurface	Tetrachloroethene	127-18-4	0.04	0.03
RY065	Railyard	Area 2	8/20/2004	SDE1	0.5	Surface	Tetrachloroethene	127-18-4	0.055	0.03
RY065	Railyard	Area 2	8/20/2004	TP01	0.5	Surface	Tetrachloroethene	127-18-4	0.06	0.03
LP991	Arctic Cooperage	Area 5	11/3/1997	TR1	2	Subsurface	Tetrachloroethene	127-18-4	0.068	0.03
LP991	Arctic Cooperage	Area 5	10/28/1997	CHMW5	5	Subsurface	Tetrachloroethene	127-18-4	0.079	0.03
LP137	Laidlaw Transit	Area 5	11/23/1998	CHMWE1	10	Subsurface	Tetrachloroethene	127-18-4	0.085	0.03
LP137	Laidlaw Transit	Area 5	11/23/1998	CHMWE1	12	Subsurface	Tetrachloroethene	127-18-4	0.095	0.03
LP137	Laidlaw Transit	Area 5	11/23/1998	CHMWE1		Subsurface	Tetrachloroethene	127-18-4	0.18	0.03
LP991	Arctic Cooperage	Area 5	11/3/1997	TR1	2	Subsurface	Tetrachloroethene	127-18-4	0.2	0.03
LP022	Municipal Light & Power	Area 5	9/30/1991	B7	0.5	Surface	Tetrachloroethene	127-18-4	0.2	0.03
LP137	Laidlaw Transit	Area 5	6/24/1994	SS5	0.5	Surface	Tetrachloroethene	127-18-4	0.23	0.03
LP022	Municipal Light & Power	Area 5	9/30/1991	B7	4	Subsurface	Tetrachloroethene	127-18-4	0.38	0.03
LP991	Arctic Cooperage	Area 5	7/15/1996	SB5	2.5	Subsurface	Tetrachloroethene	127-18-4	0.6	0.03
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS7		Subsurface	Toluene	108-88-3	5.8	5.4
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG4		Subsurface	Toluene	108-88-3	6.8	5.4
LP003	Flint Hills	Area 3	6/10/1991	SPS9	1	Subsurface	Toluene	108-88-3	7.35	5.4
LP991	Arctic Cooperage	Area 5	10/25/2000	EX3		Subsurface	Toluene	108-88-3	7.4	5.4
LP120	KAPP	Area 6	1/14/1991	10	10	Subsurface	Toluene	108-88-3	7.42	5.4
LP019	Tesoro Terminal #1	Area 3	7/10/1989	TB1TR	3.5	Subsurface	Toluene	108-88-3	7.9	5.4
LP003	Flint Hills	Area 3	1/28/1998	B8	6	Subsurface	Toluene	108-88-3	7.94	5.4
RY065	Railyard	Area 2	10/29/1991	MY2		Subsurface	Toluene	108-88-3	8.48	5.4
LP019	Tesoro Terminal #1	Area 3	10/19/1999	PW24		Subsurface	Toluene	108-88-3	8.9	5.4
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS15		Subsurface	Toluene	108-88-3	9.1	5.4
LP003	Flint Hills	Area 3	1/28/1998	B1	9	Subsurface	Toluene	108-88-3	9.83	5.4
LP003	Flint Hills	Area 3	10/9/1995	B13	15	Subsurface	Toluene	108-88-3	10	5.4

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP003	Flint Hills	Area 3	10/6/1995	B18	9	Subsurface	Toluene	108-88-3	10	5.4
LP003	Flint Hills	Area 3	6/10/1991	SPS12	1	Subsurface	Toluene	108-88-3	10.7	5.4
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS7	1	Subsurface	Toluene	108-88-3	11	5.4
LP003	Flint Hills	Area 3	6/10/1991	SPS7	1	Subsurface	Toluene	108-88-3	11.3	5.4
LP003	Flint Hills	Area 3	1/28/1998	B5	6	Subsurface	Toluene	108-88-3	12.4	5.4
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG2		Subsurface	Toluene	108-88-3	13.5	5.4
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG2		Subsurface	Toluene	108-88-3	13.8	5.4
LP003	Flint Hills	Area 3	5/30/2002	RRTS9	2	Subsurface	Toluene	108-88-3	16	5.4
LP022	Municipal Light & Power	Area 5	4/3/1989	C4		Subsurface	Toluene	108-88-3	16	5.4
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS12		Subsurface	Toluene	108-88-3	16	5.4
LP991	Arctic Cooperage	Area 5	5/16/1996	301		Subsurface	Toluene	108-88-3	17	5.4
LP003	Flint Hills	Area 3	4/1/1994	E33	4	Subsurface	Toluene	108-88-3	17	5.4
LP003	Flint Hills	Area 3	1/28/1998	B6	8	Subsurface	Toluene	108-88-3	17.8	5.4
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS8		Subsurface	Toluene	108-88-3	21	5.4
LP019	Tesoro Terminal #1	Area 3	7/13/1989	TB8TR	4	Subsurface	Toluene	108-88-3	21	5.4
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS13		Subsurface	Toluene	108-88-3	21	5.4
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	13	Subsurface	Toluene	108-88-3	21.3	5.4
LP003	Flint Hills	Area 3	1/28/1998	B3	6	Subsurface	Toluene	108-88-3	21.5	5.4
LP991	Arctic Cooperage	Area 5	9/20/1995	AC4		Subsurface	Toluene	108-88-3	24	5.4
LP003	Flint Hills	Area 3	4/1/1994	E55	4	Subsurface	Toluene	108-88-3	26	5.4
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS2	1	Subsurface	Toluene	108-88-3	27	5.4
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Toluene	108-88-3	28	5.4
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Toluene	108-88-3	29	5.4
LP019	Tesoro Terminal #1	Area 3	7/15/1989	PWPL	4.5	Subsurface	Toluene	108-88-3	33	5.4
LP003	Flint Hills	Area 3	10/11/1995	MW1	8	Subsurface	Toluene	108-88-3	36	5.4
LP003	Flint Hills	Area 3	4/1/1994	E32	6	Subsurface	Toluene	108-88-3	36	5.4
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS997	1.5	Subsurface	Toluene	108-88-3	40	5.4
LP991	Arctic Cooperage	Area 5	10/24/2000	EX2		Subsurface	Toluene	108-88-3	41	5.4
LP003	Flint Hills	Area 3	4/1/1994	E46	4	Subsurface	Toluene	108-88-3	42	5.4
LP991	Arctic Cooperage	Area 5	7/15/1996	SB5	2.5	Subsurface	Toluene	108-88-3	48	5.4
LP019	Tesoro Terminal #1	Area 3	5/10/1999	FS997	1.5	Subsurface	Toluene	108-88-3	49	5.4
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPB11	1	Subsurface	Toluene	108-88-3	49	5.4
LP019	Tesoro Terminal #1	Area 3	7/15/1989	TBD	4.5	Subsurface	Toluene	108-88-3	49	5.4
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS22		Subsurface	Toluene	108-88-3	49	5.4
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB7	0.5	Surface	Toluene	108-88-3	58	5.4
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Toluene	108-88-3	60	5.4
LP991	Arctic Cooperage	Area 5	5/16/1996	302		Subsurface	Toluene	108-88-3	70	5.4
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	5	Subsurface	Toluene	108-88-3	70	5.4
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS13		Subsurface	Toluene	108-88-3	72	5.4
LP991	Arctic Cooperage	Area 5	5/16/1996	303		Subsurface	Toluene	108-88-3	73	5.4
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB6	2	Subsurface	Toluene	108-88-3	75	5.4
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPG2	1.5	Subsurface	Toluene	108-88-3	75	5.4
LP019	Tesoro Terminal #1	Area 3	7/12/1989	TB4EX	7.5	Subsurface	Toluene	108-88-3	76	5.4
LP003	Flint Hills	Area 3	5/31/2002	RRTS	3	Subsurface	Toluene	108-88-3	82	5.4

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 Inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP003	Flint Hills	Area 3	1/28/1998	B4	8	Subsurface	Toluene	108-88-3	83	5.4
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Toluene	108-88-3	87	5.4
SS003	Flint Hills	Area 3	5/10/2002	SDS	4	Subsurface	Toluene	108-88-3	88	5.4
LP003	Flint Hills	Area 3	8/19/2002	PLOP1	6.5	Subsurface	Toluene	108-88-3	94	5.4
LP991	Arctic Cooperage	Area 5	9/20/1995	AC5		Subsurface	Toluene	108-88-3	98	5.4
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Toluene	108-88-3	99	5.4
LP003	Flint Hills	Area 3	1/28/1998	B3	8	Subsurface	Toluene	108-88-3	102	5.4
LP991	Arctic Cooperage	Area 5	5/16/1996	304		Subsurface	Toluene	108-88-3	105	5.4
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	5	Subsurface	Toluene	108-88-3	110	5.4
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Toluene	108-88-3	110	5.4
LP022	Municipal Light & Power	Area 5	4/4/1989	E7		Subsurface	Toluene	108-88-3	113	5.4
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Toluene	108-88-3	120	5.4
LP019	Tesoro Terminal #1	Area 3	7/15/1989	PWPL	4.5	Subsurface	Toluene	108-88-3	120	5.4
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	8	Subsurface	Toluene	108-88-3	130	5.4
LP003	Flint Hills	Area 3	1/28/1998	B2	9	Subsurface	Toluene	108-88-3	145	5.4
LP003	Flint Hills	Area 3	5/31/2002	RRTS	3	Subsurface	Toluene	108-88-3	160	5.4
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Toluene	108-88-3	170	5.4
LP019	Tesoro Terminal #1	Area 3	7/30/1998	PW19B	4	Subsurface	Toluene	108-88-3	170	5.4
LP003	Flint Hills	Area 3	1/28/1998	B6	6	Subsurface	Toluene	108-88-3	176	5.4
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	6	Subsurface	Toluene	108-88-3	190	5.4
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Toluene	108-88-3	250	5.4
LP003	Flint Hills	Area 3	8/19/2002	PLOP2	2	Subsurface	Toluene	108-88-3	250	5.4
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB7	1.5	Subsurface	Toluene	108-88-3	250	5.4
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Toluene	108-88-3	260	5.4
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Toluene	108-88-3	300	5.4
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Toluene	108-88-3	310	5.4
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG1		Subsurface	Toluene	108-88-3	315	5.4
RY065	Rallyard	Area 2	6/7/1991	PIT1	7	Subsurface	Toluene	108-88-3	390	5.4
LP003	Flint Hills	Area 3	10/29/1990	S7	2	Subsurface	Toluene	108-88-3	410	5.4
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	6	Subsurface	Toluene	108-88-3	430	5.4
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	8	Subsurface	Toluene	108-88-3	480	5.4
LP019	Tesoro Terminal #1	Area 3	7/31/1998	PW7	5	Subsurface	Toluene	108-88-3	540	5.4
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Toluene	108-88-3	570	5.4
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Toluene	108-88-3	590	5.4
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	8	Subsurface	Toluene	108-88-3	640	5.4
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS16	1	Subsurface	Toluene	108-88-3	720	5.4
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS8	2	Subsurface	Toluene	108-88-3	850	5.4
LP003	Flint Hills	Area 3	10/29/1990	S6	3	Subsurface	Toluene	108-88-3	1400	5.4
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB6	0.5	Surface	Toluene	108-88-3	2100	5.4
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPG1	0	Surface	Toluene	108-88-3	2100	5.4
LP003	Flint Hills	Area 3	10/29/1990	S5	3	Subsurface	Toluene	108-88-3	4200	5.4
LP991	Arctic Cooperage	Area 5	7/15/1996	SB5	7.5	Subsurface	trans-1,3-Dichloropropene	10061-02-6	1.8	0.02
LP022	Municipal Light & Power	Area 5	9/30/1991	B7	4	Subsurface	Trichloroethene	79-01-6	0.03	0.027
LP022	Municipal Light & Power	Area 5	9/25/1991	B9	1	Subsurface	Trichloroethene	79-01-6	0.03	0.027

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP137	Laidlaw Transit	Area 5	11/23/1998	CHMWE3	9	Subsurface	Trichloroethene	79-01-6	0.05	0.027
LP065	Princess Tours	Area 2	5/29/1992	MW1	16.5	Subsurface	Trichloroethene	79-01-6	0.063	0.027
LP127	Post Road Company - Tenancy	Area 5	9/25/1999	B11	5.5	Subsurface	Trichloroethene	79-01-6	0.0727	0.027
LP137	Laidlaw Transit	Area 5	11/23/1998	CHMWE2	12	Subsurface	Trichloroethene	79-01-6	0.077	0.027
RY065	Railyard	Area 2	9/16/2003	SP8		Subsurface	Trichloroethene	79-01-6	0.0776	0.027
RY065	Railyard	Area 2	9/16/2003	SP11		Subsurface	Trichloroethene	79-01-6	0.0828	0.027
LP137	Laidlaw Transit	Area 5	11/24/1998	CHSB1	11	Subsurface	Trichloroethene	79-01-6	0.084	0.027
LP127	Post Road Company - Tenancy	Area 5	9/25/1999	B12	9	Subsurface	Trichloroethene	79-01-6	0.0913	0.027
LP137	Laidlaw Transit	Area 5	11/24/1998	CHSB1	13	Subsurface	Trichloroethene	79-01-6	0.1	0.027
RY065	Railyard	Area 2	8/20/2004	TP01	0.5	Surface	Trichloroethene	79-01-6	0.1	0.027
RY065	Railyard	Area 2	9/16/2003	SP10		Subsurface	Trichloroethene	79-01-6	0.102	0.027
LP137	Laidlaw Transit	Area 5	6/24/1994	SS6	0.5	Surface	Trichloroethene	79-01-6	0.15	0.027
RY065	Railyard	Area 2	9/16/2003	SP14		Subsurface	Trichloroethene	79-01-6	0.152	0.027
RY065	Railyard	Area 2	9/16/2003	SP9		Subsurface	Trichloroethene	79-01-6	0.189	0.027
RY065	Railyard	Area 2	9/16/2003	SP6		Subsurface	Trichloroethene	79-01-6	0.216	0.027
RY065	Railyard	Area 2	9/16/2003	EX10		Subsurface	Trichloroethene	79-01-6	0.226	0.027
RY065	Railyard	Area 2	9/16/2003	EX9		Subsurface	Trichloroethene	79-01-6	0.228	0.027
RY065	Railyard	Area 2	9/16/2003	SP5		Subsurface	Trichloroethene	79-01-6	0.333	0.027
RY065	Railyard	Area 2	9/16/2003	SP13		Subsurface	Trichloroethene	79-01-6	0.347	0.027
LP127	Post Road Company - Tenancy	Area 5	5/1/2003	MW2	11.5	Subsurface	Trichloroethene	79-01-6	0.44	0.027
RY065	Railyard	Area 2	9/16/2003	EX3		Subsurface	Trichloroethene	79-01-6	0.51	0.027
RY065	Railyard	Area 2	9/16/2003	EX4		Subsurface	Trichloroethene	79-01-6	0.642	0.027
LP127	Post Road Company - Tenancy	Area 5	5/1/2003	MW2	6.5	Subsurface	Trichloroethene	79-01-6	0.74	0.027
LP127	Post Road Company - Tenancy	Area 5	8/31/1999	B3	4	Subsurface	Trichloroethene	79-01-6	0.978	0.027
LP127	Post Road Company - Tenancy	Area 5	9/21/1999	B7	5	Subsurface	Trichloroethene	79-01-6	1.71	0.027
RY065	Railyard	Area 2	8/20/2004	SDE1	0.5	Surface	Trichloroethene	79-01-6	2.9	0.027
RY065	Railyard	Area 2	8/20/2004	SDE1	0.5	Surface	Trichloroethene	79-01-6	3.4	0.027
LP137	Laidlaw Transit	Area 5	6/24/1994	SS5	0.5	Surface	Trichloroethene	79-01-6	6.5	0.027
LP127	Post Road Company - Tenancy	Area 5	5/1/2003	MW3	6.5	Subsurface	Trichloroethene	79-01-6	6.5	0.027
LP003	Flint Hills	Area 3	1/28/1998	B3	6	Subsurface	Xylene, total	1330-20-7	82.1	78
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS13		Subsurface	Xylene, total	1330-20-7	89	78
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Xylene, total	1330-20-7	90	78
LP003	Flint Hills	Area 3	10/6/1995	B18	9	Subsurface	Xylene, total	1330-20-7	100	78
LP003	Flint Hills	Area 3	4/1/1994	E32	6	Subsurface	Xylene, total	1330-20-7	100	78
LP003	Flint Hills	Area 3	1/28/1998	B5	6	Subsurface	Xylene, total	1330-20-7	108	78
LP991	Arctic Cooperage	Area 5	8/5/1997	CHSB8	8	Subsurface	Xylene, total	1330-20-7	110	78
LP991	Arctic Cooperage	Area 5	5/16/1996	302		Subsurface	Xylene, total	1330-20-7	113	78
LP003	Flint Hills	Area 3	1/28/1998	B3	8	Subsurface	Xylene, total	1330-20-7	115.4	78
LP991	Arctic Cooperage	Area 5	5/16/1996	303		Subsurface	Xylene, total	1330-20-7	124	78
LP003	Flint Hills	Area 3	8/19/2002	PLOP1	6.5	Subsurface	Xylene, total	1330-20-7	124	78
LP991	Arctic Cooperage	Area 5	10/28/1997	CHMW5	15	Subsurface	Xylene, total	1330-20-7	130	78
LP991	Arctic Cooperage	Area 5	7/15/1996	SB5	2.5	Subsurface	Xylene, total	1330-20-7	130	78
LP991	Arctic Cooperage	Area 5	11/18/1997	TR7	6	Subsurface	Xylene, total	1330-20-7	130	78
LP019	Tesoro Terminal #1	Area 3	6/7/1999	ESS20		Subsurface	Xylene, total	1330-20-7	130	78

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP019	Tesoro Terminal #1	Area 3	7/15/1989	PWPL	4.5	Subsurface	Xylene, total	1330-20-7	130	78
LP019	Tesoro Terminal #1	Area 3	5/1/1999	FS997	1.5	Subsurface	Xylene, total	1330-20-7	136	78
LP991	Arctic Cooperage	Area 5	8/5/1997	CHSB8	8	Subsurface	Xylene, total	1330-20-7	140	78
LP002	Consolidated Freightways	Area 1	6/20/1989	S10	5	Subsurface	Xylene, total	1330-20-7	150	78
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Xylene, total	1330-20-7	150	78
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS5		Subsurface	Xylene, total	1330-20-7	150	78
LP019	Tesoro Terminal #1	Area 3	6/7/1999	ESS21		Subsurface	Xylene, total	1330-20-7	150	78
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPB10	1	Subsurface	Xylene, total	1330-20-7	150	78
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS7	1	Subsurface	Xylene, total	1330-20-7	150	78
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Xylene, total	1330-20-7	160	78
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS11		Subsurface	Xylene, total	1330-20-7	160	78
LP019	Tesoro Terminal #1	Area 3	5/10/1999	FS997	1.5	Subsurface	Xylene, total	1330-20-7	160	78
LP991	Arctic Cooperage	Area 5	9/20/1995	AC5		Subsurface	Xylene, total	1330-20-7	170	78
LP003	Flint Hills	Area 3	4/1/1994	E33	4	Subsurface	Xylene, total	1330-20-7	170	78
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS12		Subsurface	Xylene, total	1330-20-7	170	78
LP019	Tesoro Terminal #1	Area 3	7/12/1989	TB4EX	7.5	Subsurface	Xylene, total	1330-20-7	180	78
LP019	Tesoro Terminal #1	Area 3	7/15/1989	PWPL	4.5	Subsurface	Xylene, total	1330-20-7	190	78
LP991	Arctic Cooperage	Area 5	5/16/1996	304		Subsurface	Xylene, total	1330-20-7	193	78
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	8	Subsurface	Xylene, total	1330-20-7	220	78
LP019	Tesoro Terminal #1	Area 3	7/15/1989	TBD	4.5	Subsurface	Xylene, total	1330-20-7	220	78

Table F-2 Summary of Detected Soil Concentrations Exceeding ADEC Method 2 Migration to Groundwater Screening Levels ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Study Area	Sample Date	loc_name	End depth (ft)	Depth_Interval	Analyte	Cas Number	Concentration (mg/kg)	ADEC "Under 40 inch Zone" Method 2 Screening Level for Migration of Soil to Groundwater (mg/kg)
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	6	Subsurface	Xylene, total	1330-20-7	230	78
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Xylene, total	1330-20-7	250	78
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Xylene, total	1330-20-7	250	78
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Xylene, total	1330-20-7	270	78
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Xylene, total	1330-20-7	280	78
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	5	Subsurface	Xylene, total	1330-20-7	280	78
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	5	Subsurface	Xylene, total	1330-20-7	280	78
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS8		Subsurface	Xylene, total	1330-20-7	280	78
LP003	Flint Hills	Area 3	1/28/1998	B2	9	Subsurface	Xylene, total	1330-20-7	319	78
LP003	Flint Hills	Area 3	5/30/2002	RRTS9	2	Subsurface	Xylene, total	1330-20-7	320	78
LP003	Flint Hills	Area 3	10/11/1995	MW1	8	Subsurface	Xylene, total	1330-20-7	340	78
LP003	Flint Hills	Area 3	5/30/2002	RRTS1	3	Subsurface	Xylene, total	1330-20-7	360	78
LP019	Tesoro Terminal #1	Area 3	7/30/1998	PW19B	4	Subsurface	Xylene, total	1330-20-7	390	78
LP137	Laidlaw Transit	Area 5	8/4/1997	CHSB4	8	Subsurface	Xylene, total	1330-20-7	400	78
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Xylene, total	1330-20-7	440	78
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB7	0.5	Surface	Xylene, total	1330-20-7	470	78
LP991	Arctic Cooperage	Area 5	8/5/1997	CHMW2	5	Subsurface	Xylene, total	1330-20-7	490	78
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	8	Subsurface	Xylene, total	1330-20-7	500	78
LP991	Arctic Cooperage	Area 5	11/14/1997	TR4	6	Subsurface	Xylene, total	1330-20-7	540	78
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Xylene, total	1330-20-7	560	78
LP019	Tesoro Terminal #1	Area 3	6/1/1999	ESS13		Subsurface	Xylene, total	1330-20-7	580	78
LP003	Flint Hills	Area 3	10/29/1990	S7	2	Subsurface	Xylene, total	1330-20-7	590	78
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Xylene, total	1330-20-7	610	78
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB7	1.5	Subsurface	Xylene, total	1330-20-7	640	78
SS003	Flint Hills	Area 3	5/9/2002	SDS	4	Subsurface	Xylene, total	1330-20-7	680	78
LP019	Tesoro Terminal #1	Area 3	7/31/1998	PW7	5	Subsurface	Xylene, total	1330-20-7	690	78
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPG1		Subsurface	Xylene, total	1330-20-7	715	78
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS2	1	Subsurface	Xylene, total	1330-20-7	730	78
LP019	Tesoro Terminal #1	Area 3	10/9/1997	TPS16	1	Subsurface	Xylene, total	1330-20-7	770	78
RY065	Railyard	Area 2	6/7/1991	PIT1	7	Subsurface	Xylene, total	1330-20-7	780	78
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	8	Subsurface	Xylene, total	1330-20-7	800	78
LP003	Flint Hills	Area 3	5/31/2002	RRTS	3	Subsurface	Xylene, total	1330-20-7	900	78
LP991	Arctic Cooperage	Area 5	8/4/1997	CHSB5	5	Subsurface	Xylene, total	1330-20-7	980	78
LP019	Tesoro Terminal #1	Area 3	10/8/1997	TPS8	2	Subsurface	Xylene, total	1330-20-7	1000	78
LP003	Flint Hills	Area 3	8/19/2002	PLOP2	2	Subsurface	Xylene, total	1330-20-7	1100	78
LP003	Flint Hills	Area 3	10/29/1990	S6	3	Subsurface	Xylene, total	1330-20-7	1500	78
LP019	Tesoro Terminal #1	Area 3	9/29/1997	KPB6	0.5	Surface	Xylene, total	1330-20-7	1700	78
LP019	Tesoro Terminal #1	Area 3	8/15/1997	KPG1	0	Surface	Xylene, total	1330-20-7	1700	78
SS003	Flint Hills	Area 3	5/10/2002	SDS	4	Subsurface	Xylene, total	1330-20-7	2700	78
LP003	Flint Hills	Area 3	10/29/1990	S5	3	Subsurface	Xylene, total	1330-20-7	4400	78

Notes:
mg/kg = milligrams per kilogram
only includes data from those sites designated as "Further Action"

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs)
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP003	Flint Hills	Terminal Reserve	12/23/1997	MW1	T	1,1-Dichloroethene	75-35-4	7.54	7
LP024	Prescott Equipment	North of Ship Creek	9/18/2000	B2	T	1,2,3-Trichloropropane	96-18-4	1	0.2
LP024	Prescott Equipment	North of Ship Creek	9/18/2000	B3	T	1,2,3-Trichloropropane	96-18-4	1	0.2
LP085	CBS Equipment	North of Ship Creek	5/5/1995	MW5	T	1,2,3-Trichloropropane	96-18-4	35	0.2
LP085	CBS Equipment	North of Ship Creek	4/18/1997	MW5	T	1,2,3-Trichloropropane	96-18-4	35	0.2
LP085	CBS Equipment	North of Ship Creek	4/30/1998	MW5	T	1,2,3-Trichloropropane	96-18-4	35	0.2
LP085	CBS Equipment	North of Ship Creek	6/17/1995	MW5	T	1,2,3-Trichloropropane	96-18-4	35	0.2
LP085	CBS Equipment	North of Ship Creek	4/18/1997	MW6	T	1,2,3-Trichloropropane	96-18-4	35	0.2
LP085	CBS Equipment	North of Ship Creek	4/30/1998	MW6	T	1,2,3-Trichloropropane	96-18-4	35	0.2
LP134	HW Alaska LLC	North of Ship Creek	7/9/1998	MW1	T	1,2,3-Trichloropropane	96-18-4	35	0.2
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR4	T	1,2,4-Trimethylbenzene	95-63-6	13	12
LP991	Arctic Cooperage	North of Ship Creek	12/24/1997	CHMW4A	T	1,2,4-Trimethylbenzene	95-63-6	17	12
LP991	Arctic Cooperage	North of Ship Creek	9/29/2000	CHMW3	T	1,2,4-Trimethylbenzene	95-63-6	20	12
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW3	T	1,2,4-Trimethylbenzene	95-63-6	20	12
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE3	T	1,2,4-Trimethylbenzene	95-63-6	25	12
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE3	T	1,2,4-Trimethylbenzene	95-63-6	25	12
LP991	Arctic Cooperage	North of Ship Creek	8/18/1999	CHMW3	T	1,2,4-Trimethylbenzene	95-63-6	29	12
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW3	T	1,2,4-Trimethylbenzene	95-63-6	31	12
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW3	T	1,2,4-Trimethylbenzene	95-63-6	35	12
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE2	T	1,2,4-Trimethylbenzene	95-63-6	38	12
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW1	T	1,2,4-Trimethylbenzene	95-63-6	41	12
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW1A	T	1,2,4-Trimethylbenzene	95-63-6	41	12
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW3	T	1,2,4-Trimethylbenzene	95-63-6	52	12
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW3	T	1,2,4-Trimethylbenzene	95-63-6	55	12
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW3	T	1,2,4-Trimethylbenzene	95-63-6	55	12
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW5A	T	1,2,4-Trimethylbenzene	95-63-6	73	12
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR1	T	1,2,4-Trimethylbenzene	95-63-6	87	12
LP137	Laidlaw Transit	North of Ship Creek	12/1/1998	CHMWE2	T	1,2,4-Trimethylbenzene	95-63-6	140	12
LP134	HW Alaska LLC	North of Ship Creek	7/9/1998	MW1	T	1,2,4-Trimethylbenzene	95-63-6	150	12
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW1A	T	1,2,4-Trimethylbenzene	95-63-6	320	12
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW5A	T	1,2,4-Trimethylbenzene	95-63-6	410	12
LP991	Arctic Cooperage	North of Ship Creek	11/18/1997	TR6	T	1,2,4-Trimethylbenzene	95-63-6	550	12
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE1	T	1,2,4-Trimethylbenzene	95-63-6	560	12
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW1A	T	1,2,4-Trimethylbenzene	95-63-6	650	12
LP991	Arctic Cooperage	North of Ship Creek	9/29/2000	CHMW2	T	1,2,4-Trimethylbenzene	95-63-6	660	12
LP991	Arctic Cooperage	North of Ship Creek	3/5/1998	CHMW2	T	1,2,4-Trimethylbenzene	95-63-6	760	12
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW2	T	1,2,4-Trimethylbenzene	95-63-6	820	12
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE2	T	1,2,4-Trimethylbenzene	95-63-6	880	12
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW1A	T	1,2,4-Trimethylbenzene	95-63-6	910	12
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW2	T	1,2,4-Trimethylbenzene	95-63-6	950	12
LP991	Arctic Cooperage	North of Ship Creek	3/5/1998	CHMW5A	T	1,2,4-Trimethylbenzene	95-63-6	960	12
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW5	T	1,2,4-Trimethylbenzene	95-63-6	1100	12
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW2	T	1,2,4-Trimethylbenzene	95-63-6	1100	12
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW5A	T	1,2,4-Trimethylbenzene	95-63-6	1100	12
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW5A	T	1,2,4-Trimethylbenzene	95-63-6	1100	12

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE5	T	1,2,4-Trimethylbenzene	95-63-6	1100	12
LP991	Arctic Cooperage	North of Ship Creek	11/3/1997	CHMW2	T	1,2,4-Trimethylbenzene	95-63-6	1200	12
LP991	Arctic Cooperage	North of Ship Creek	12/24/1997	CHMW1	T	1,2,4-Trimethylbenzene	95-63-6	1500	12
LP991	Arctic Cooperage	North of Ship Creek	12/24/1997	CHMW1A	T	1,2,4-Trimethylbenzene	95-63-6	1500	12
LP991	Arctic Cooperage	North of Ship Creek	3/6/1998	CHMW1A	T	1,2,4-Trimethylbenzene	95-63-6	1700	12
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW5A	T	1,2,4-Trimethylbenzene	95-63-6	1700	12
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW5	T	1,2,4-Trimethylbenzene	95-63-6	2400	12
LP991	Arctic Cooperage	North of Ship Creek	11/7/1997	CHMW5	T	1,2,4-Trimethylbenzene	95-63-6	4700	12
LP024	Prescott Equipment	North of Ship Creek	9/18/2000	B2	T	1,2-Dibromo-3-chloropropane	96-12-8	1	0.2
LP024	Prescott Equipment	North of Ship Creek	9/18/2000	B3	T	1,2-Dibromo-3-chloropropane	96-12-8	1	0.2
LP024	Prescott Equipment	North of Ship Creek	9/18/2000	B2	T	1,2-Dibromoethane	106-93-4	1	0.05
LP024	Prescott Equipment	North of Ship Creek	9/18/2000	B3	T	1,2-Dibromoethane	106-93-4	1	0.05
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW3	T	1,2-Dibromoethane	106-93-4	10	0.05
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW2	T	1,2-Dichloroethane	107-06-2	35	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/16/1989	MW13A	T	1,2-Dichloroethane	107-06-2	71.8	5
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW1	T	1,3,5-Trimethylbenzene	108-67-8	13	12
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW1A	T	1,3,5-Trimethylbenzene	108-67-8	13	12
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW3	T	1,3,5-Trimethylbenzene	108-67-8	21	12
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR1	T	1,3,5-Trimethylbenzene	108-67-8	27	12
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE2	T	1,3,5-Trimethylbenzene	108-67-8	32	12
LP137	Laidlaw Transit	North of Ship Creek	12/1/1998	CHMWE2	T	1,3,5-Trimethylbenzene	108-67-8	58	12
LP134	HW Alaska LLC	North of Ship Creek	7/9/1998	MW1	T	1,3,5-Trimethylbenzene	108-67-8	69	12
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW5A	T	1,3,5-Trimethylbenzene	108-67-8	130	12
LP991	Arctic Cooperage	North of Ship Creek	11/18/1997	TR6	T	1,3,5-Trimethylbenzene	108-67-8	150	12
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW5A	T	1,3,5-Trimethylbenzene	108-67-8	160	12
LP991	Arctic Cooperage	North of Ship Creek	9/29/2000	CHMW2	T	1,3,5-Trimethylbenzene	108-67-8	210	12
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW2	T	1,3,5-Trimethylbenzene	108-67-8	220	12
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE1	T	1,3,5-Trimethylbenzene	108-67-8	240	12
LP991	Arctic Cooperage	North of Ship Creek	3/5/1998	CHMW2	T	1,3,5-Trimethylbenzene	108-67-8	290	12
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW1A	T	1,3,5-Trimethylbenzene	108-67-8	330	12
LP991	Arctic Cooperage	North of Ship Creek	3/5/1998	CHMW5A	T	1,3,5-Trimethylbenzene	108-67-8	360	12
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE2	T	1,3,5-Trimethylbenzene	108-67-8	360	12
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW1A	T	1,3,5-Trimethylbenzene	108-67-8	390	12
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW5	T	1,3,5-Trimethylbenzene	108-67-8	410	12
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW5A	T	1,3,5-Trimethylbenzene	108-67-8	410	12
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE5	T	1,3,5-Trimethylbenzene	108-67-8	420	12
LP991	Arctic Cooperage	North of Ship Creek	12/24/1997	CHMW1	T	1,3,5-Trimethylbenzene	108-67-8	470	12
LP991	Arctic Cooperage	North of Ship Creek	12/24/1997	CHMW1A	T	1,3,5-Trimethylbenzene	108-67-8	470	12
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW2	T	1,3,5-Trimethylbenzene	108-67-8	550	12
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW5A	T	1,3,5-Trimethylbenzene	108-67-8	550	12
LP991	Arctic Cooperage	North of Ship Creek	3/6/1998	CHMW1A	T	1,3,5-Trimethylbenzene	108-67-8	630	12
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW5	T	1,3,5-Trimethylbenzene	108-67-8	840	12
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW5A	T	1,3,5-Trimethylbenzene	108-67-8	850	12
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW2	T	1,3,5-Trimethylbenzene	108-67-8	900	12
LP991	Arctic Cooperage	North of Ship Creek	11/7/1997	CHMW5	T	1,3,5-Trimethylbenzene	108-67-8	1300	12

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs)
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW5A	T	1,3,5-Trimethylbenzene	108-67-8	5400	12
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW2	T	2-Methylnaphthalene	91-57-6	1200	780
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW2	T	2-Methylnaphthalene	91-57-6	1400	780
LP991	Arctic Cooperage	North of Ship Creek	12/24/1997	CHMW1	T	2-Methylnaphthalene	91-57-6	3500	780
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW1A	T	2-Methylnaphthalene	91-57-6	3500	780
LP991	Arctic Cooperage	North of Ship Creek	8/5/1997	CHHP1	T	2-Methylnaphthalene	91-57-6	7900	780
LP991	Arctic Cooperage	North of Ship Creek	8/5/1997	CHSB8	T	2-Methylnaphthalene	91-57-6	7900	780
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE1	T	Aluminum	7429-90-5	40700	36000
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE3	T	Aluminum	7429-90-5	56800	36000
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE5	T	Aluminum	7429-90-5	82200	36000
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE2	T	Aluminum	7429-90-5	92200	36000
LP120	KAPP	North of Ship Creek	1/1/1998	145U	T	Aluminum	7429-90-5	181000	36000
LP120	KAPP	North of Ship Creek	10/8/1998	145U	T	Aluminum	7429-90-5	181000	36000
LP022	Municipal Light & Power	South of Ship Creek	10/7/1991	MW3	T	Aroclor 1260	11096-82-5	16	0.0005
LP022	Municipal Light & Power	South of Ship Creek	10/7/1991	MW3	T	Aroclor 1260	11096-82-5	23	0.0005
LP024	Prescott Equipment	North of Ship Creek	9/1/1998	MW2	T	Arsenic	7440-38-2	11	10
LP024	Prescott Equipment	North of Ship Creek	8/14/1998	MW2	T	Arsenic	7440-38-2	11	10
LP024	Prescott Equipment	North of Ship Creek	9/18/2000	B2	T	Arsenic	7440-38-2	11.4	10
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW19	T	Arsenic	7440-38-2	13	10
LP003	Flint Hills	Terminal Reserve	4/3/1992	16MW	T	Arsenic	7440-38-2	16	10
LP120	KAPP	North of Ship Creek	1/1/1998	145N	T	Arsenic	7440-38-2	18.3	10
LP120	KAPP	North of Ship Creek	10/8/1998	145N	T	Arsenic	7440-38-2	18.3	10
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW20	T	Arsenic	7440-38-2	20	10
LP024	Prescott Equipment	North of Ship Creek	8/26/1998	B3	T	Arsenic	7440-38-2	20	10
LP024	Prescott Equipment	North of Ship Creek	8/26/1999	B3	T	Arsenic	7440-38-2	24.6	10
LP024	Prescott Equipment	North of Ship Creek	9/1/1999	B3	T	Arsenic	7440-38-2	24.6	10
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6A	T	Arsenic	7440-38-2	25	10
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE2	T	Arsenic	7440-38-2	25	10
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6A	D	Arsenic	7440-38-2	27	10
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE5	T	Arsenic	7440-38-2	29	10
RY065	Railyard	North of Ship Creek	2/7/2001	3MW	T	Arsenic	7440-38-2	29.4	10
LP003	Flint Hills	Terminal Reserve	4/3/1992	15MW	T	Arsenic	7440-38-2	31	10
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW16	D	Arsenic	7440-38-2	31	10
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW16	T	Arsenic	7440-38-2	32	10
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE3	T	Arsenic	7440-38-2	34	10
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6A	T	Arsenic	7440-38-2	49	10
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW26	T	Arsenic	7440-38-2	50	10
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6A	D	Arsenic	7440-38-2	56	10
LP120	KAPP	North of Ship Creek	1/1/1998	145U	T	Arsenic	7440-38-2	59.1	10
LP120	KAPP	North of Ship Creek	10/8/1998	145U	T	Arsenic	7440-38-2	59.1	10
LP003	Flint Hills	Terminal Reserve	4/3/1992	13MW	T	Arsenic	7440-38-2	68	10
LP024	Prescott Equipment	North of Ship Creek	9/1/1998	MW3	T	Arsenic	7440-38-2	68	10
LP024	Prescott Equipment	North of Ship Creek	8/14/1998	MW3	T	Arsenic	7440-38-2	68	10
LP127	Post Road Company - Tenancy	North of Ship Creek	8/31/1999	B1	T	Arsenic	7440-38-2	69.9	10
LP024	Prescott Equipment	North of Ship Creek	8/14/1998	MW3	T	Arsenic	7440-38-2	80	10

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs)
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP127	Post Road Company - Tenancy	North of Ship Creek	8/31/1999	B2	T	Arsenic	7440-38-2	84.1	10
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6A	T	Arsenic	7440-38-2	87	10
LP024	Prescott Equipment	North of Ship Creek	9/1/1998	MW3	T	Arsenic	7440-38-2	89.5	10
LP024	Prescott Equipment	North of Ship Creek	8/14/1998	MW3	T	Arsenic	7440-38-2	89.5	10
LP127	Post Road Company - Tenancy	North of Ship Creek	8/31/1999	B3	T	Arsenic	7440-38-2	107	10
LP024	Prescott Equipment	North of Ship Creek	9/18/2000	B3	T	Arsenic	7440-38-2	145	10
LP024	Prescott Equipment	North of Ship Creek	9/18/2000	B3	T	Arsenic	7440-38-2	150	10
LP065	Princess Tours	North of Ship Creek	6/5/1992	MW3	T	Arsenic	7440-38-2	250	10
RY065	Railyard	North of Ship Creek	2/7/2001	10MW	T	Arsenic	7440-38-2	384	10
RY065	Railyard	North of Ship Creek	2/7/2001	9MW	T	Arsenic	7440-38-2	679	10
RY065	Railyard	North of Ship Creek	2/7/2001	7MW	T	Arsenic	7440-38-2	799	10
RY065	Railyard	North of Ship Creek	2/7/2001	8MW	T	Arsenic	7440-38-2	801	10
RY065	Railyard	North of Ship Creek	2/7/2001	6MW	T	Arsenic	7440-38-2	1180	10
RY065	Railyard	North of Ship Creek	2/7/2001	7MW	T	Arsenic	7440-38-2	1390	10
LP127	Post Road Company - Tenancy	North of Ship Creek	8/31/1999	B1	T	Barium	7440-39-3	2640	2000
LP127	Post Road Company - Tenancy	North of Ship Creek	8/31/1999	B2	T	Barium	7440-39-3	5560	2000
LP127	Post Road Company - Tenancy	North of Ship Creek	8/31/1999	B3	T	Barium	7440-39-3	5700	2000
RY065	Railyard	North of Ship Creek	2/7/2001	9MW	T	Barium	7440-39-3	6990	2000
RY065	Railyard	North of Ship Creek	2/7/2001	6MW	T	Barium	7440-39-3	7190	2000
RY065	Railyard	North of Ship Creek	2/7/2001	7MW	T	Barium	7440-39-3	8600	2000
RY065	Railyard	North of Ship Creek	2/7/2001	10MW	T	Barium	7440-39-3	13600	2000
RY065	Railyard	North of Ship Creek	2/7/2001	7MW	T	Barium	7440-39-3	15800	2000
RY065	Railyard	North of Ship Creek	2/7/2001	8MW	T	Barium	7440-39-3	15800	2000
RY065	Railyard	North of Ship Creek	5/16/1989	C5	T	Benzene	71-43-2	5.02	5
LP022	Municipal Light & Power	South of Ship Creek	12/16/1993	3A3	T	Benzene	71-43-2	5.1	5
LP991	Arctic Cooperage	North of Ship Creek	9/29/2000	CHMW3	T	Benzene	71-43-2	5.2	5
LP022	Municipal Light & Power	South of Ship Creek	9/17/1993	2A4	T	Benzene	71-43-2	5.2	5
LP003	Flint Hills	Terminal Reserve	6/20/1988	MW10	T	Benzene	71-43-2	5.3	5
LP003	Flint Hills	Terminal Reserve	9/28/1989	MW18	T	Benzene	71-43-2	5.34	5
LP022	Municipal Light & Power	South of Ship Creek	12/16/1993	2A4	T	Benzene	71-43-2	5.4	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PW18	T	Benzene	71-43-2	5.44	5
LP025	Chevron	Terminal Reserve	5/3/1999	MW7	T	Benzene	71-43-2	5.48	5
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW14	T	Benzene	71-43-2	5.5	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	14MW	T	Benzene	71-43-2	5.5	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW14	T	Benzene	71-43-2	5.5	5
LP022	Municipal Light & Power	South of Ship Creek	9/17/1993	2A1	T	Benzene	71-43-2	5.6	5
LP022	Municipal Light & Power	South of Ship Creek	9/17/1993	3A1	T	Benzene	71-43-2	5.6	5
LP022	Municipal Light & Power	South of Ship Creek	12/16/1993	2A1	T	Benzene	71-43-2	5.7	5
LP019	Tesoro Terminal #1	Terminal Reserve	8/10/1998	PW9	T	Benzene	71-43-2	5.7	5
LP022	Municipal Light & Power	South of Ship Creek	12/16/1993	2A1	T	Benzene	71-43-2	5.8	5
LP022	Municipal Light & Power	South of Ship Creek	6/14/1996	2A3	T	Benzene	71-43-2	5.8	5
LP022	Municipal Light & Power	South of Ship Creek	12/16/1993	3A1	T	Benzene	71-43-2	5.8	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/21/2002	PW9	T	Benzene	71-43-2	5.8	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	PW9	T	Benzene	71-43-2	5.8	5
LP022	Municipal Light & Power	South of Ship Creek	3/17/1994	2A1	T	Benzene	71-43-2	5.88	5

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP022	Municipal Light & Power	South of Ship Creek	3/17/1994	3A1	T	Benzene	71-43-2	5.88	5
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR1	T	Benzene	71-43-2	6	5
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR1	T	Benzene	71-43-2	6	5
LP022	Municipal Light & Power	South of Ship Creek	6/16/1992	2A1	T	Benzene	71-43-2	6	5
LP022	Municipal Light & Power	South of Ship Creek	12/30/1991	2A3	T	Benzene	71-43-2	6	5
LP022	Municipal Light & Power	South of Ship Creek	7/8/1994	SBPZG4	T	Benzene	71-43-2	6	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6A	T	Benzene	71-43-2	6.1	5
LP025	Chevron	Terminal Reserve	4/20/1998	MW14	T	Benzene	71-43-2	6.17	5
LP991	Arctic Cooperage	North of Ship Creek	8/18/1999	CHMW3	T	Benzene	71-43-2	6.2	5
LP022	Municipal Light & Power	South of Ship Creek	9/17/1993	3A3	T	Benzene	71-43-2	6.2	5
LP022	Municipal Light & Power	South of Ship Creek	12/26/1996	2A4	T	Benzene	71-43-2	6.2	5
LP022	Municipal Light & Power	South of Ship Creek	6/26/1997	2A3	T	Benzene	71-43-2	6.24	5
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE3	T	Benzene	71-43-2	6.3	5
LP022	Municipal Light & Power	South of Ship Creek	9/30/1996	2A4	T	Benzene	71-43-2	6.3	5
LP019	Tesoro Terminal #1	Terminal Reserve	8/11/1998	MW6	T	Benzene	71-43-2	6.3	5
LP003	Flint Hills	Terminal Reserve	10/20/2003	MW11	T	Benzene	71-43-2	6.5	5
LP022	Municipal Light & Power	South of Ship Creek	9/30/1996	3A3	T	Benzene	71-43-2	6.6	5
LP003	Flint Hills	Terminal Reserve	8/16/2002	MW12	T	Benzene	71-43-2	6.7	5
LP003	Flint Hills	Terminal Reserve	8/19/2002	12MW	T	Benzene	71-43-2	6.7	5
LP022	Municipal Light & Power	South of Ship Creek	6/26/1995	2A3	T	Benzene	71-43-2	6.7	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	PW21	T	Benzene	71-43-2	6.71	5
LP022	Municipal Light & Power	South of Ship Creek	6/26/1997	2A4	T	Benzene	71-43-2	6.73	5
LP022	Municipal Light & Power	South of Ship Creek	9/20/1995	3A3	T	Benzene	71-43-2	6.9	5
LP991	Arctic Cooperage	North of Ship Creek	8/18/1999	CHMW3	T	Benzene	71-43-2	7	5
LP134	HW Alaska LLC	North of Ship Creek	7/9/1998	MW1	T	Benzene	71-43-2	7	5
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE3	T	Benzene	71-43-2	7	5
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE3	T	Benzene	71-43-2	7	5
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE5	T	Benzene	71-43-2	7	5
LP022	Municipal Light & Power	South of Ship Creek	12/14/1992	2A1	T	Benzene	71-43-2	7	5
LP022	Municipal Light & Power	South of Ship Creek	12/14/1992	2A1	T	Benzene	71-43-2	7	5
LP022	Municipal Light & Power	South of Ship Creek	6/23/1992	2A3	T	Benzene	71-43-2	7	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	MW6	T	Benzene	71-43-2	7	5
RY065	Railyard	North of Ship Creek	5/15/1989	C8	T	Benzene	71-43-2	7.08	5
LP022	Municipal Light & Power	South of Ship Creek	6/15/1994	2A3	T	Benzene	71-43-2	7.09	5
LP025	Chevron	Terminal Reserve	5/27/2003	MW5	T	Benzene	71-43-2	7.2	5
LP003	Flint Hills	Terminal Reserve	1/28/1998	MW9	T	Benzene	71-43-2	7.28	5
LP022	Municipal Light & Power	South of Ship Creek	6/24/1993	2A4	T	Benzene	71-43-2	7.4	5
LP022	Municipal Light & Power	South of Ship Creek	3/25/1997	3A3	T	Benzene	71-43-2	7.5	5
LP022	Municipal Light & Power	South of Ship Creek	6/24/1993	2A1	T	Benzene	71-43-2	7.6	5
LP022	Municipal Light & Power	South of Ship Creek	9/17/1993	2A1	T	Benzene	71-43-2	7.6	5
LP022	Municipal Light & Power	South of Ship Creek	6/24/1993	3A1	T	Benzene	71-43-2	7.6	5
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW3	T	Benzene	71-43-2	7.7	5
LP003	Flint Hills	Terminal Reserve	8/15/2002	6MW	T	Benzene	71-43-2	7.7	5
LP003	Flint Hills	Terminal Reserve	8/15/2002	MW6	T	Benzene	71-43-2	7.7	5
LP003	Flint Hills	Terminal Reserve	6/19/1989	MW18	T	Benzene	71-43-2	7.72	5

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs)
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP003	Flint Hills	Terminal Reserve	4/30/2004	MW6	T	Benzene	71-43-2	7.94	5
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW3	T	Benzene	71-43-2	8	5
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW3	T	Benzene	71-43-2	8	5
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	MW6	T	Benzene	71-43-2	8.02	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	MW1	T	Benzene	71-43-2	8.13	5
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW7	T	Benzene	71-43-2	8.3	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW7	T	Benzene	71-43-2	8.3	5
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE5	T	Benzene	71-43-2	8.3	5
LP025	Chevron	Terminal Reserve	5/27/2003	MW14	T	Benzene	71-43-2	8.4	5
LP003	Flint Hills	Terminal Reserve	4/12/1994	MW23	T	Benzene	71-43-2	8.4	5
LP019	Tesoro Terminal #1	Terminal Reserve	8/10/1998	PW15	T	Benzene	71-43-2	8.5	5
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	PW20	T	Benzene	71-43-2	8.65	5
LP022	Municipal Light & Power	South of Ship Creek	9/15/1994	3A3	T	Benzene	71-43-2	8.8	5
LP991	Arctic Cooperage	North of Ship Creek	9/29/2000	CHMW3	T	Benzene	71-43-2	9	5
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW3	T	Benzene	71-43-2	9	5
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW1A	T	Benzene	71-43-2	9	5
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW3	T	Benzene	71-43-2	9	5
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW3	T	Benzene	71-43-2	9.1	5
LP003	Flint Hills	Terminal Reserve	6/17/1988	14MW	T	Benzene	71-43-2	9.1	5
LP003	Flint Hills	Terminal Reserve	6/17/1988	MW14	T	Benzene	71-43-2	9.1	5
LP003	Flint Hills	Terminal Reserve	12/19/1989	MW10	T	Benzene	71-43-2	9.2	5
LP025	Chevron	Terminal Reserve	5/3/2001	MW4	T	Benzene	71-43-2	9.23	5
LP022	Municipal Light & Power	South of Ship Creek	6/24/1993	2A1	T	Benzene	71-43-2	9.3	5
LP025	Chevron	Terminal Reserve	4/20/1998	MW4	T	Benzene	71-43-2	9.36	5
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW3	T	Benzene	71-43-2	9.4	5
LP003	Flint Hills	Terminal Reserve	9/28/1989	MW11	T	Benzene	71-43-2	9.42	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/25/2003	PW25	T	Benzene	71-43-2	9.53	5
LP137	Laidlaw Transit	North of Ship Creek	12/1/1998	CHMWE5	T	Benzene	71-43-2	9.7	5
LP022	Municipal Light & Power	South of Ship Creek	3/17/1994	3A3	T	Benzene	71-43-2	9.76	5
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	PW21	T	Benzene	71-43-2	9.82	5
LP003	Flint Hills	Terminal Reserve	6/19/1989	MW7	T	Benzene	71-43-2	9.83	5
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW3	T	Benzene	71-43-2	10	5
LP025	Chevron	Terminal Reserve	6/8/2004	MW20	T	Benzene	71-43-2	10	5
LP016	Chevron USA Pipeline	Terminal Reserve	10/14/1994	MW6B	T	Benzene	71-43-2	10	5
LP003	Flint Hills	Terminal Reserve	3/6/2001	MW5	T	Benzene	71-43-2	10	5
LP137	Laidlaw Transit	North of Ship Creek	12/1/1998	CHMWE5	T	Benzene	71-43-2	10	5
LP137	Laidlaw Transit	North of Ship Creek	12/1/1998	CHMWE5	T	Benzene	71-43-2	10	5
LP022	Municipal Light & Power	South of Ship Creek	3/31/1992	2A5	T	Benzene	71-43-2	10	5
LP022	Municipal Light & Power	South of Ship Creek	3/31/1992	3A1	T	Benzene	71-43-2	10	5
LP022	Municipal Light & Power	South of Ship Creek	3/31/1992	3A2	T	Benzene	71-43-2	10	5
LP022	Municipal Light & Power	South of Ship Creek	3/31/1992	A3	T	Benzene	71-43-2	10	5
LP022	Municipal Light & Power	South of Ship Creek	3/31/1992	A7	T	Benzene	71-43-2	10	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/21/1999	MW6	T	Benzene	71-43-2	10	5
LP019	Tesoro Terminal #1	Terminal Reserve	8/10/1998	PW17	T	Benzene	71-43-2	10	5
LP003	Flint Hills	Terminal Reserve	6/19/1989	MW11	T	Benzene	71-43-2	10.3	5

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs)
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP022	Municipal Light & Power	South of Ship Creek	8/28/1998	2A4	T	Benzene	71-43-2	10.5	5
LP025	Chevron	Terminal Reserve	6/8/2004	MW14	T	Benzene	71-43-2	11	5
LP003	Flint Hills	Terminal Reserve	6/17/1988	13MW	T	Benzene	71-43-2	11	5
LP003	Flint Hills	Terminal Reserve	6/17/1988	MW13	T	Benzene	71-43-2	11	5
LP134	HW Alaska LLC	North of Ship Creek	4/18/1997	MW1	T	Benzene	71-43-2	11	5
LP022	Municipal Light & Power	South of Ship Creek	10/8/1990	2A1	T	Benzene	71-43-2	11	5
LP022	Municipal Light & Power	South of Ship Creek	6/14/1996	2A4	T	Benzene	71-43-2	11	5
LP022	Municipal Light & Power	South of Ship Creek	3/31/1992	2A6	T	Benzene	71-43-2	11	5
LP022	Municipal Light & Power	South of Ship Creek	4/13/1989	A2	T	Benzene	71-43-2	11.4	5
LP003	Flint Hills	Terminal Reserve	3/21/1989	MW18	T	Benzene	71-43-2	11.9	5
LP003	Flint Hills	Terminal Reserve	10/17/2003	12MW	T	Benzene	71-43-2	12	5
LP003	Flint Hills	Terminal Reserve	10/20/2003	MW12	T	Benzene	71-43-2	12	5
LP003	Flint Hills	Terminal Reserve	6/17/1988	MW18	T	Benzene	71-43-2	12	5
LP022	Municipal Light & Power	South of Ship Creek	3/31/1992	2A3	T	Benzene	71-43-2	12	5
LP022	Municipal Light & Power	South of Ship Creek	6/23/1992	2A4	T	Benzene	71-43-2	12	5
LP019	Tesoro Terminal #1	Terminal Reserve	8/7/1998	PW13	T	Benzene	71-43-2	12	5
LP025	Chevron	Terminal Reserve	5/23/2000	MW18	T	Benzene	71-43-2	12.4	5
LP016	Chevron USA Pipeline	Terminal Reserve	5/3/1999	MW6B	T	Benzene	71-43-2	12.6	5
LP016	Chevron USA Pipeline	Terminal Reserve	8/3/1999	MW6B	T	Benzene	71-43-2	12.6	5
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW3	T	Benzene	71-43-2	13	5
LP003	Flint Hills	Terminal Reserve	10/17/2003	MW6	T	Benzene	71-43-2	13	5
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE1	T	Benzene	71-43-2	13	5
LP022	Municipal Light & Power	South of Ship Creek	3/25/1997	2A4	T	Benzene	71-43-2	13	5
LP065	Princess Tours	North of Ship Creek	5/25/1994	MW1	T	Benzene	71-43-2	13	5
RY065	Railyard	North of Ship Creek	5/25/1994	6MW	T	Benzene	71-43-2	13	5
LP025	Chevron	Terminal Reserve	5/3/1999	MW5	T	Benzene	71-43-2	13.1	5
LP025	Chevron	Terminal Reserve	9/18/1998	MW18	T	Benzene	71-43-2	13.8	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	PW21	T	Benzene	71-43-2	13.8	5
LP003	Flint Hills	Terminal Reserve	3/6/2001	MW17	T	Benzene	71-43-2	13.9	5
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW1A	T	Benzene	71-43-2	14	5
LP025	Chevron	Terminal Reserve	5/27/2003	MW4	T	Benzene	71-43-2	14	5
LP025	Chevron	Terminal Reserve	6/8/2004	MW4	T	Benzene	71-43-2	14	5
LP022	Municipal Light & Power	South of Ship Creek	3/16/1992	2A1	T	Benzene	71-43-2	14	5
LP025	Chevron	Terminal Reserve	6/8/2004	MW5	T	Benzene	71-43-2	15	5
LP003	Flint Hills	Terminal Reserve	8/19/2002	MW11	T	Benzene	71-43-2	15	5
LP003	Flint Hills	Terminal Reserve	3/21/1989	MW11	T	Benzene	71-43-2	15.8	5
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW3	T	Benzene	71-43-2	16	5
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	PW9	T	Benzene	71-43-2	16	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/17/2002	PW5	T	Benzene	71-43-2	16.3	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	PW21	T	Benzene	71-43-2	16.9	5
LP022	Municipal Light & Power	South of Ship Creek	12/30/1991	2A1	T	Benzene	71-43-2	17	5
RY065	Railyard	North of Ship Creek	9/26/1985	W5	T	Benzene	71-43-2	17	5
LP016	Chevron USA Pipeline	Terminal Reserve	5/23/2000	MW6B	T	Benzene	71-43-2	17.2	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/2/2001	PW24	T	Benzene	71-43-2	17.5	5
LP120	KAPP	North of Ship Creek	5/17/1989	B1	T	Benzene	71-43-2	17.6	5

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP049	Wrightway Auto Carriers	North of Ship Creek	5/17/1989	B1	T	Benzene	71-43-2	17.6	5
LP991	Arctic Cooperage	North of Ship Creek	8/27/1997	CHSB6	T	Benzene	71-43-2	18	5
LP025	Chevron	Terminal Reserve	5/27/2003	MW20	T	Benzene	71-43-2	18	5
LP022	Municipal Light & Power	South of Ship Creek	12/30/1991	3A3	T	Benzene	71-43-2	18	5
LP019	Tesoro Terminal #1	Terminal Reserve	11/3/1999	PW18	T	Benzene	71-43-2	18	5
LP025	Chevron	Terminal Reserve	5/3/1999	MW14	T	Benzene	71-43-2	18.7	5
LP025	Chevron	Terminal Reserve	5/3/1999	MW14	T	Benzene	71-43-2	18.7	5
RY065	Railyard	North of Ship Creek	5/15/1989	C7	T	Benzene	71-43-2	18.9	5
LP022	Municipal Light & Power	South of Ship Creek	3/31/1992	2A4	T	Benzene	71-43-2	19	5
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	PW20	T	Benzene	71-43-2	19	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2002	MW5	T	Benzene	71-43-2	19.7	5
LP025	Chevron	Terminal Reserve	4/24/1997	MW5	T	Benzene	71-43-2	20	5
LP003	Flint Hills	Terminal Reserve	4/12/1994	MW24	T	Benzene	71-43-2	20	5
LP022	Municipal Light & Power	South of Ship Creek	11/14/1991	2A1	T	Benzene	71-43-2	20	5
LP022	Municipal Light & Power	South of Ship Creek	6/6/1991	2A4	T	Benzene	71-43-2	20	5
LP022	Municipal Light & Power	South of Ship Creek	9/17/1991	3A3	T	Benzene	71-43-2	20	5
LP025	Chevron	Terminal Reserve	5/3/2001	MW14	T	Benzene	71-43-2	20.9	5
LP025	Chevron	Terminal Reserve	4/24/1997	MW3	T	Benzene	71-43-2	21.4	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	PW20	T	Benzene	71-43-2	21.7	5
LP003	Flint Hills	Terminal Reserve	6/19/1989	13MW	T	Benzene	71-43-2	21.8	5
LP003	Flint Hills	Terminal Reserve	6/19/1989	MW13	T	Benzene	71-43-2	21.8	5
LP025	Chevron	Terminal Reserve	4/24/1997	MW20	T	Benzene	71-43-2	21.9	5
LP025	Chevron	Terminal Reserve	9/18/1998	MW20	T	Benzene	71-43-2	21.9	5
LP025	Chevron	Terminal Reserve	9/18/1998	MW20	T	Benzene	71-43-2	21.9	5
LP991	Arctic Cooperage	North of Ship Creek	11/18/1997	TR6	T	Benzene	71-43-2	22	5
LP022	Municipal Light & Power	South of Ship Creek	6/6/1991	2A4	T	Benzene	71-43-2	22	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/21/2002	PW6	T	Benzene	71-43-2	22.8	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	PW6	T	Benzene	71-43-2	22.8	5
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW5	T	Benzene	71-43-2	23	5
LP991	Arctic Cooperage	North of Ship Creek	11/18/1997	TR6	T	Benzene	71-43-2	23	5
LP003	Flint Hills	Terminal Reserve	12/19/1989	MW7	T	Benzene	71-43-2	23	5
LP025	Chevron	Terminal Reserve	5/3/1998	MW3	T	Benzene	71-43-2	23.9	5
LP025	Chevron	Terminal Reserve	9/18/1998	MW3	T	Benzene	71-43-2	23.9	5
LP025	Chevron	Terminal Reserve	4/24/1997	MW14	T	Benzene	71-43-2	24.2	5
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE5	T	Benzene	71-43-2	25	5
LP022	Municipal Light & Power	South of Ship Creek	6/5/1991	2A3	T	Benzene	71-43-2	25	5
LP016	Chevron USA Pipeline	Terminal Reserve	10/16/1989	MW6B	T	Benzene	71-43-2	25.4	5
LP120	KAPP	North of Ship Creek	5/18/1989	B6	T	Benzene	71-43-2	25.5	5
LP025	Chevron	Terminal Reserve	5/3/2001	MW5	T	Benzene	71-43-2	26.2	5
LP022	Municipal Light & Power	South of Ship Creek	3/14/1991	2A1	T	Benzene	71-43-2	27	5
LP025	Chevron	Terminal Reserve	9/18/1998	MW5	T	Benzene	71-43-2	27.6	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/2/2001	PW20	T	Benzene	71-43-2	27.6	5
LP003	Flint Hills	Terminal Reserve	3/21/1989	MW6	T	Benzene	71-43-2	27.9	5
LP016	Chevron USA Pipeline	Terminal Reserve	10/16/1989	MW6B	T	Benzene	71-43-2	28.4	5
LP003	Flint Hills	Terminal Reserve	9/28/1989	MW7	T	Benzene	71-43-2	28.4	5

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP022	Municipal Light & Power	South of Ship Creek	6/22/1989	2A6	T	Benzene	71-43-2	28.4	5
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	PW23	T	Benzene	71-43-2	29.1	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	PW24	T	Benzene	71-43-2	29.2	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	PW25	T	Benzene	71-43-2	29.2	5
LP025	Chevron	Terminal Reserve	5/27/2003	MW2	T	Benzene	71-43-2	30	5
LP022	Municipal Light & Power	South of Ship Creek	9/17/1991	2A3	T	Benzene	71-43-2	30	5
LP025	Chevron	Terminal Reserve	9/18/1998	MW14	T	Benzene	71-43-2	30.8	5
LP025	Chevron	Terminal Reserve	5/3/1999	MW4	T	Benzene	71-43-2	30.8	5
LP003	Flint Hills	Terminal Reserve	6/20/1988	MW7	T	Benzene	71-43-2	31	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	PW9	T	Benzene	71-43-2	31.3	5
LP025	Chevron	Terminal Reserve	5/3/1999	MW3	T	Benzene	71-43-2	32.9	5
LP022	Municipal Light & Power	South of Ship Creek	7/8/1994	SBG6	T	Benzene	71-43-2	33	5
LP025	Chevron	Terminal Reserve	6/8/2004	MW2	T	Benzene	71-43-2	34	5
LP025	Chevron	Terminal Reserve	4/24/1997	MW4	T	Benzene	71-43-2	34.5	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/25/2000	PW20	T	Benzene	71-43-2	34.8	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PW20	T	Benzene	71-43-2	34.8	5
LP025	Chevron	Terminal Reserve	5/23/2000	MW14	T	Benzene	71-43-2	36	5
LP025	Chevron	Terminal Reserve	5/27/2003	MW2	T	Benzene	71-43-2	36	5
LP019	Tesoro Terminal #1	Terminal Reserve	8/11/1998	MW4	T	Benzene	71-43-2	36	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/29/1991	NS1	T	Benzene	71-43-2	36	5
LP025	Chevron	Terminal Reserve	4/24/1997	MW4	T	Benzene	71-43-2	37.5	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/25/2003	MW1	T	Benzene	71-43-2	38	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/25/2003	PWPL	T	Benzene	71-43-2	38.6	5
LP003	Flint Hills	Terminal Reserve	6/17/1988	MW11	T	Benzene	71-43-2	39	5
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW19	T	Benzene	71-43-2	39	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW19	T	Benzene	71-43-2	39	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/18/2002	PW20	T	Benzene	71-43-2	39	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	PW20	T	Benzene	71-43-2	39	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW12	T	Benzene	71-43-2	41	5
LP003	Flint Hills	Terminal Reserve	10/20/2003	MW14	T	Benzene	71-43-2	41	5
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW12	T	Benzene	71-43-2	42	5
LP003	Flint Hills	Terminal Reserve	11/9/1995	SDA	T	Benzene	71-43-2	42	5
LP025	Chevron	Terminal Reserve	4/20/1998	MW5	T	Benzene	71-43-2	42.8	5
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW5	T	Benzene	71-43-2	44	5
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW5A	T	Benzene	71-43-2	44	5
LP125	L&J Cabs - CPR Automotive	South of Ship Creek	9/6/1989	6	T	Benzene	71-43-2	44	5
LP025	Chevron	Terminal Reserve	10/16/1989	MW7	T	Benzene	71-43-2	44.9	5
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW1A	T	Benzene	71-43-2	45	5
LP003	Flint Hills	Terminal Reserve	10/12/1995	MW1	T	Benzene	71-43-2	45	5
LP019	Tesoro Terminal #1	Terminal Reserve	8/10/1998	PW18	T	Benzene	71-43-2	45	5
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	PW5	T	Benzene	71-43-2	46.2	5
LP025	Chevron	Terminal Reserve	9/30/2002	MW17	T	Benzene	71-43-2	46.6	5
LP025	Chevron	Terminal Reserve	9/30/2002	MW18	T	Benzene	71-43-2	46.6	5
LP003	Flint Hills	Terminal Reserve	10/12/1995	MW1	T	Benzene	71-43-2	48	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	PW9	T	Benzene	71-43-2	48.4	5

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	MW6	T	Benzene	71-43-2	48.9	5
LP025	Chevron	Terminal Reserve	9/30/2002	MW5	T	Benzene	71-43-2	49.3	5
LP003	Flint Hills	Terminal Reserve	4/16/1992	MW6	T	Benzene	71-43-2	50	5
LP016	Chevron USA Pipeline	Terminal Reserve	5/3/2001	MW6B	T	Benzene	71-43-2	50.5	5
LP003	Flint Hills	Terminal Reserve	4/24/1994	MW6	T	Benzene	71-43-2	51	5
LP016	Chevron USA Pipeline	Terminal Reserve	9/30/2002	MW6B	T	Benzene	71-43-2	53.7	5
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW5A	T	Benzene	71-43-2	54	5
LP025	Chevron	Terminal Reserve	10/14/1994	MW14	T	Benzene	71-43-2	54	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	PW5	T	Benzene	71-43-2	54.5	5
LP003	Flint Hills	Terminal Reserve	4/30/2004	MW19	T	Benzene	71-43-2	54.7	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW12	T	Benzene	71-43-2	55	5
LP025	Chevron	Terminal Reserve	5/3/1999	MW14	T	Benzene	71-43-2	56	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW19	T	Benzene	71-43-2	58	5
RY065	Railyard	North of Ship Creek	5/17/1989	B9	T	Benzene	71-43-2	58.7	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	MW6	T	Benzene	71-43-2	59.4	5
LP025	Chevron	Terminal Reserve	10/26/1993	MW14	T	Benzene	71-43-2	60	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/17/2002	PW24	T	Benzene	71-43-2	60.6	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	PW24	T	Benzene	71-43-2	60.6	5
LP003	Flint Hills	Terminal Reserve	6/20/1988	MW19	T	Benzene	71-43-2	61	5
LP016	Chevron USA Pipeline	Terminal Reserve	6/8/2004	MW6B	T	Benzene	71-43-2	63	5
LP003	Flint Hills	Terminal Reserve	4/24/1994	MW12	T	Benzene	71-43-2	64	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/18/2002	PW23	T	Benzene	71-43-2	64.4	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	PW23	T	Benzene	71-43-2	64.4	5
LP991	Arctic Cooperage	North of Ship Creek	8/21/1997	CHHP1	T	Benzene	71-43-2	65	5
LP991	Arctic Cooperage	North of Ship Creek	8/21/1997	CHSB8	T	Benzene	71-43-2	65	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW21	T	Benzene	71-43-2	66	5
LP016	Chevron USA Pipeline	Terminal Reserve	5/27/2003	MW6B	T	Benzene	71-43-2	67	5
LP003	Flint Hills	Terminal Reserve	8/19/2002	14MW	T	Benzene	71-43-2	68	5
LP003	Flint Hills	Terminal Reserve	12/19/1989	MW11	T	Benzene	71-43-2	68	5
LP003	Flint Hills	Terminal Reserve	8/19/2002	MW14	T	Benzene	71-43-2	68	5
LP003	Flint Hills	Terminal Reserve	10/17/2003	MW24	T	Benzene	71-43-2	69	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	MW1	T	Benzene	71-43-2	71	5
LP025	Chevron	Terminal Reserve	5/3/2001	MW20	T	Benzene	71-43-2	71.1	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	MW4	T	Benzene	71-43-2	72	5
LP022	Municipal Light & Power	South of Ship Creek	12/18/1990	2A1	T	Benzene	71-43-2	73	5
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW5A	T	Benzene	71-43-2	79	5
LP022	Municipal Light & Power	South of Ship Creek	6/23/1992	2A1	T	Benzene	71-43-2	79	5
LP025	Chevron	Terminal Reserve	10/16/1989	MW21	T	Benzene	71-43-2	80	5
LP025	Chevron	Terminal Reserve	10/16/1998	MW21	T	Benzene	71-43-2	80	5
LP003	Flint Hills	Terminal Reserve	10/17/2003	MW19	T	Benzene	71-43-2	80	5
LP022	Municipal Light & Power	South of Ship Creek	9/30/1992	2A1	T	Benzene	71-43-2	80	5
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR3	T	Benzene	71-43-2	81	5
LP025	Chevron	Terminal Reserve	10/26/1993	MW14	T	Benzene	71-43-2	83	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW19	T	Benzene	71-43-2	83	5
LP025	Chevron	Terminal Reserve	5/3/1999	MW20	T	Benzene	71-43-2	85.8	5

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP019	Tesoro Terminal #1	Terminal Reserve	10/22/1999	PW15	T	Benzene	71-43-2	86	5
LP025	Chevron	Terminal Reserve	4/20/1998	MW18	T	Benzene	71-43-2	87.6	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/25/2003	PW20	T	Benzene	71-43-2	88.1	5
LP003	Flint Hills	Terminal Reserve	9/28/1989	MW19	T	Benzene	71-43-2	88.8	5
LP003	Flint Hills	Terminal Reserve	3/18/1988	EX1	T	Benzene	71-43-2	90	5
LP003	Flint Hills	Terminal Reserve	1/17/1992	MW6	T	Benzene	71-43-2	91	5
LP003	Flint Hills	Terminal Reserve	12/19/1989	13MW	T	Benzene	71-43-2	93	5
LP003	Flint Hills	Terminal Reserve	12/19/1989	MW13	T	Benzene	71-43-2	93	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/17/2002	MW6	T	Benzene	71-43-2	96.6	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	MW6	T	Benzene	71-43-2	96.6	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1993	MW6	T	Benzene	71-43-2	97	5
LP991	Arctic Cooperage	North of Ship Creek	3/5/1998	CHMW1A	T	Benzene	71-43-2	100	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW19	T	Benzene	71-43-2	100	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6A	T	Benzene	71-43-2	100	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6	T	Benzene	71-43-2	100	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1993	MW6	T	Benzene	71-43-2	100	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PW5	T	Benzene	71-43-2	100	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PW24	T	Benzene	71-43-2	108	5
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW5A	T	Benzene	71-43-2	110	5
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW11	T	Benzene	71-43-2	110	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW11	T	Benzene	71-43-2	110	5
LP003	Flint Hills	Terminal Reserve	6/17/1988	MW13	T	Benzene	71-43-2	110	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6	T	Benzene	71-43-2	110	5
LP134	HW Alaska LLC	North of Ship Creek	10/5/1993	MW2	T	Benzene	71-43-2	110	5
LP022	Municipal Light & Power	South of Ship Creek	7/17/1991	2A1	T	Benzene	71-43-2	110	5
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	PW5	T	Benzene	71-43-2	110	5
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	PW24	T	Benzene	71-43-2	115	5
LP027	Chevron Former Asphalt	Terminal Reserve	10/16/1989	MW19	T	Benzene	71-43-2	116	5
LP027	Chevron Former Asphalt	Terminal Reserve	10/16/1998	MW19	T	Benzene	71-43-2	116	5
LP016	Chevron USA Pipeline	Terminal Reserve	9/18/1998	MW6B	T	Benzene	71-43-2	116	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/25/2000	MW5	T	Benzene	71-43-2	119	5
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW5A	T	Benzene	71-43-2	120	5
LP991	Arctic Cooperage	North of Ship Creek	3/5/1998	CHMW5A	T	Benzene	71-43-2	120	5
LP025	Chevron	Terminal Reserve	10/26/1993	MW15	T	Benzene	71-43-2	120	5
LP025	Chevron	Terminal Reserve	5/27/2003	MW18	T	Benzene	71-43-2	120	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW10	T	Benzene	71-43-2	120	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1993	MW10	T	Benzene	71-43-2	120	5
LP003	Flint Hills	Terminal Reserve	9/28/1989	13MW	T	Benzene	71-43-2	126	5
LP003	Flint Hills	Terminal Reserve	9/28/1989	MW13	T	Benzene	71-43-2	126	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/25/1999	PW23	T	Benzene	71-43-2	130	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	PW25	T	Benzene	71-43-2	133	5
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW1A	T	Benzene	71-43-2	140	5
LP003	Flint Hills	Terminal Reserve	3/21/1989	MW19	T	Benzene	71-43-2	140	5
LP003	Flint Hills	Terminal Reserve	3/21/1998	MW19	T	Benzene	71-43-2	140	5
LP003	Flint Hills	Terminal Reserve	4/12/1994	MW20C	T	Benzene	71-43-2	140	5

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP003	Flint Hills	Terminal Reserve	4/12/1994	MW20	T	Benzene	71-43-2	140	5
LP003	Flint Hills	Terminal Reserve	6/19/1989	MW19	T	Benzene	71-43-2	141	5
LP025	Chevron	Terminal Reserve	9/18/1998	MW1	T	Benzene	71-43-2	143	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	MW4	T	Benzene	71-43-2	143	5
LP025	Chevron	Terminal Reserve	4/24/1997	MW1	T	Benzene	71-43-2	144	5
LP003	Flint Hills	Terminal Reserve	6/19/1989	MW6	T	Benzene	71-43-2	144	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/25/2000	PW9	T	Benzene	71-43-2	145	5
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW5A	T	Benzene	71-43-2	150	5
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	PW5	T	Benzene	71-43-2	156	5
LP025	Chevron	Terminal Reserve	4/20/1998	MW1	T	Benzene	71-43-2	158	5
LP003	Flint Hills	Terminal Reserve	1/28/1998	MW10	T	Benzene	71-43-2	159	5
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW5A	T	Benzene	71-43-2	160	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW20	T	Benzene	71-43-2	160	5
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW6	T	Benzene	71-43-2	160	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6	T	Benzene	71-43-2	160	5
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	MW1	T	Benzene	71-43-2	160	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PW23	T	Benzene	71-43-2	162	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	PW6	T	Benzene	71-43-2	165	5
LP019	Tesoro Terminal #1	Terminal Reserve	9/14/2000	PW23	T	Benzene	71-43-2	167	5
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW10	T	Benzene	71-43-2	170	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW10	T	Benzene	71-43-2	170	5
LP003	Flint Hills	Terminal Reserve	6/20/1988	MW6	T	Benzene	71-43-2	170	5
LP022	Municipal Light & Power	South of Ship Creek	6/1/1990	2A1	T	Benzene	71-43-2	170	5
LP019	Tesoro Terminal #1	Terminal Reserve	8/6/1998	PW1	T	Benzene	71-43-2	170	5
LP019	Tesoro Terminal #1	Terminal Reserve	8/7/1998	PW5	T	Benzene	71-43-2	180	5
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	PW25	T	Benzene	71-43-2	183	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW8A	T	Benzene	71-43-2	190	5
LP022	Municipal Light & Power	South of Ship Creek	12/30/1991	2A4	T	Benzene	71-43-2	190	5
LP025	Chevron	Terminal Reserve	5/3/2001	MW18	T	Benzene	71-43-2	197	5
LP003	Flint Hills	Terminal Reserve	12/19/1989	MW6	T	Benzene	71-43-2	197	5
LP025	Chevron	Terminal Reserve	5/3/1999	MW18	T	Benzene	71-43-2	202	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	PW5	T	Benzene	71-43-2	209	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/29/1991	MW1	T	Benzene	71-43-2	210	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	PW23	T	Benzene	71-43-2	224	5
LP003	Flint Hills	Terminal Reserve	12/19/1989	MW19	T	Benzene	71-43-2	225	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	PW25	T	Benzene	71-43-2	228	5
LP003	Flint Hills	Terminal Reserve	1/20/1992	MW19	T	Benzene	71-43-2	236	5
LP003	Flint Hills	Terminal Reserve	1/20/1992	MW19W1	T	Benzene	71-43-2	236	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1993	NS1	T	Benzene	71-43-2	250	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	MW5	T	Benzene	71-43-2	257	5
LP022	Municipal Light & Power	South of Ship Creek	3/31/1992	2A1	T	Benzene	71-43-2	260	5
LP003	Flint Hills	Terminal Reserve	1/17/1992	MW10	T	Benzene	71-43-2	273	5
LP025	Chevron	Terminal Reserve	10/14/1994	MW18	T	Benzene	71-43-2	280	5
LP003	Flint Hills	Terminal Reserve	8/15/2002	MW19	T	Benzene	71-43-2	280	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/25/1999	PW24	T	Benzene	71-43-2	280	5

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP019	Tesoro Terminal #1	Terminal Reserve	8/7/1998	PW3	T	Benzene	71-43-2	280	5
LP003	Flint Hills	Terminal Reserve	9/28/1989	MW6	T	Benzene	71-43-2	283	5
LP025	Chevron	Terminal Reserve	10/16/1989	MW14	T	Benzene	71-43-2	315	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/25/2003	MW4	T	Benzene	71-43-2	318	5
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	MW4	T	Benzene	71-43-2	320	5
LP134	HW Alaska LLC	North of Ship Creek	5/5/1995	MW1	T	Benzene	71-43-2	325	5
LP019	Tesoro Terminal #1	Terminal Reserve	8/7/1998	PW12	T	Benzene	71-43-2	330	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	MW5	T	Benzene	71-43-2	336	5
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	PW9	T	Benzene	71-43-2	341	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/18/2002	MW1	T	Benzene	71-43-2	341	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	MW1	T	Benzene	71-43-2	341	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	MW4	T	Benzene	71-43-2	358	5
LP022	Municipal Light & Power	South of Ship Creek	3/30/1990	2A1	T	Benzene	71-43-2	360	5
LP019	Tesoro Terminal #1	Terminal Reserve	8/11/1998	MW4	T	Benzene	71-43-2	360	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	MW1	T	Benzene	71-43-2	368	5
LP025	Chevron	Terminal Reserve	10/16/1989	MW18	T	Benzene	71-43-2	395	5
LP025	Chevron	Terminal Reserve	10/14/1989	MW20	T	Benzene	71-43-2	400	5
LP025	Chevron	Terminal Reserve	10/14/1994	MW20	T	Benzene	71-43-2	400	5
LP003	Flint Hills	Terminal Reserve	9/28/1989	MW17	T	Benzene	71-43-2	405	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW12	T	Benzene	71-43-2	410	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/27/2003	MW13A	T	Benzene	71-43-2	410	5
LP025	Chevron	Terminal Reserve	5/3/2001	MW16	T	Benzene	71-43-2	411	5
LP019	Tesoro Terminal #1	Terminal Reserve	8/6/1998	MW1	T	Benzene	71-43-2	440	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	NS1	T	Benzene	71-43-2	442	5
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	MW4	T	Benzene	71-43-2	444	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/21/2002	MW5	T	Benzene	71-43-2	444	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	MW5	T	Benzene	71-43-2	444	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/8/2004	MW13A	T	Benzene	71-43-2	460	5
LP019	Tesoro Terminal #1	Terminal Reserve	8/6/1998	MW1	T	Benzene	71-43-2	470	5
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW24	T	Benzene	71-43-2	480	5
LP019	Tesoro Terminal #1	Terminal Reserve	9/30/2002	MW13A	T	Benzene	71-43-2	484	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	MW1	T	Benzene	71-43-2	500	5
LP019	Tesoro Terminal #1	Terminal Reserve	9/18/1998	MW13A	T	Benzene	71-43-2	501	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PWPL	T	Benzene	71-43-2	521.6	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PWPL	T	Benzene	71-43-2	526	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2002	PWPL	T	Benzene	71-43-2	526	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/3/2001	MW13A	T	Benzene	71-43-2	532	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	MW4	T	Benzene	71-43-2	533	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	MW4	T	Benzene	71-43-2	537	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/29/1991	MW4	T	Benzene	71-43-2	540	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/18/2002	MW4	T	Benzene	71-43-2	553	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	MW4	T	Benzene	71-43-2	554	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/2/2001	PW23	T	Benzene	71-43-2	567	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/6/2001	PWPL	T	Benzene	71-43-2	572	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	MW4	T	Benzene	71-43-2	574	5

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP019	Tesoro Terminal #1	Terminal Reserve	6/25/2003	PW23	T	Benzene	71-43-2	578	5
LP019	Tesoro Terminal #1	Terminal Reserve	11/4/1989	MW4	T	Benzene	71-43-2	580	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	MW4	T	Benzene	71-43-2	587	5
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	MW4	T	Benzene	71-43-2	590	5
LP022	Municipal Light & Power	South of Ship Creek	6/12/1991	2A1	T	Benzene	71-43-2	610	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/23/2000	MW13A	T	Benzene	71-43-2	643	5
LP991	Arctic Cooperage	North of Ship Creek	12/24/1997	CHMW1	T	Benzene	71-43-2	670	5
LP991	Arctic Cooperage	North of Ship Creek	12/24/1997	CHMW1A	T	Benzene	71-43-2	670	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW18	T	Benzene	71-43-2	670	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/3/1998	MW13A	T	Benzene	71-43-2	673	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/3/1999	MW13A	T	Benzene	71-43-2	673	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW1	T	Benzene	71-43-2	680	5
LP019	Tesoro Terminal #1	Terminal Reserve	7/24/1989	MW1	T	Benzene	71-43-2	680	5
LP025	Chevron	Terminal Reserve	6/9/2004	MW3	T	Benzene	71-43-2	690	5
LP025	Chevron	Terminal Reserve	5/3/2001	MW1	T	Benzene	71-43-2	696	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PW6	T	Benzene	71-43-2	696	5
LP025	Chevron	Terminal Reserve	5/27/2003	MW3	T	Benzene	71-43-2	710	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/23/2000	MW13A	T	Benzene	71-43-2	717	5
LP003	Flint Hills	Terminal Reserve	4/30/2004	MW5	T	Benzene	71-43-2	718	5
LP025	Chevron	Terminal Reserve	6/8/2004	MW1	T	Benzene	71-43-2	720	5
LP003	Flint Hills	Terminal Reserve	10/20/2003	MW5	T	Benzene	71-43-2	740	5
LP991	Arctic Cooperage	North of Ship Creek	12/24/1997	CHMW1	T	Benzene	71-43-2	770	5
LP991	Arctic Cooperage	North of Ship Creek	12/24/1997	CHMW1A	T	Benzene	71-43-2	770	5
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW5	T	Benzene	71-43-2	780	5
LP019	Tesoro Terminal #1	Terminal Reserve	4/24/1997	MW13A	T	Benzene	71-43-2	791	5
LP019	Tesoro Terminal #1	Terminal Reserve	11/2/1999	PW25	T	Benzene	71-43-2	810	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	PW19B	T	Benzene	71-43-2	880	5
LP025	Chevron	Terminal Reserve	10/16/1989	MW2	T	Benzene	71-43-2	901	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PW25	T	Benzene	71-43-2	1000	5
LP022	Municipal Light & Power	South of Ship Creek	1/17/1990	2A1	T	Benzene	71-43-2	1010	5
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	MW5	T	Benzene	71-43-2	1010	5
LP991	Arctic Cooperage	North of Ship Creek	8/5/1997	CHHP1	T	Benzene	71-43-2	1100	5
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW5	T	Benzene	71-43-2	1100	5
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW5A	T	Benzene	71-43-2	1100	5
LP991	Arctic Cooperage	North of Ship Creek	8/8/1997	CHSB8	T	Benzene	71-43-2	1100	5
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	MW5	T	Benzene	71-43-2	1100	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	PW6	T	Benzene	71-43-2	1130	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW7	T	Benzene	71-43-2	1200	5
LP019	Tesoro Terminal #1	Terminal Reserve	4/20/1998	MW13A	T	Benzene	71-43-2	1260	5
LP003	Flint Hills	Terminal Reserve	8/19/2002	MW5	T	Benzene	71-43-2	1300	5
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	MW1	T	Benzene	71-43-2	1300	5
LP019	Tesoro Terminal #1	Terminal Reserve	11/4/1989	MW1	T	Benzene	71-43-2	1300	5
LP022	Municipal Light & Power	South of Ship Creek	5/22/1989	2A6	T	Benzene	71-43-2	1330	5
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	MW5	T	Benzene	71-43-2	1390	5
LP019	Tesoro Terminal #1	Terminal Reserve	9/14/2000	PW6	T	Benzene	71-43-2	1400	5

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	MW5	T	Benzene	71-43-2	1460	5
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	NS1	T	Benzene	71-43-2	1500	5
LP025	Chevron	Terminal Reserve	10/16/1989	MW1	T	Benzene	71-43-2	1510	5
LP025	Chevron	Terminal Reserve	5/27/2003	MW16	T	Benzene	71-43-2	1600	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/14/1994	MW13A	T	Benzene	71-43-2	1700	5
LP022	Municipal Light & Power	South of Ship Creek	5/22/1989	2A4	T	Benzene	71-43-2	1720	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	PW19B	T	Benzene	71-43-2	1910	5
LP022	Municipal Light & Power	South of Ship Creek	7/12/1989	2A3	T	Benzene	71-43-2	2010	5
LP003	Flint Hills	Terminal Reserve	4/24/1994	MW5	T	Benzene	71-43-2	2060	5
LP022	Municipal Light & Power	South of Ship Creek	9/29/1989	2A3	T	Benzene	71-43-2	2110	5
LP025	Chevron	Terminal Reserve	4/20/1998	MW16	T	Benzene	71-43-2	2150	5
LP003	Flint Hills	Terminal Reserve	1/28/1998	MW6	T	Benzene	71-43-2	2160	5
LP022	Municipal Light & Power	South of Ship Creek	5/22/1989	2A3	T	Benzene	71-43-2	2190	5
LP991	Arctic Cooperage	North of Ship Creek	9/29/2000	CHMW2	T	Benzene	71-43-2	2400	5
LP019	Tesoro Terminal #1	Terminal Reserve	11/2/1999	PW19B	T	Benzene	71-43-2	2400	5
LP022	Municipal Light & Power	South of Ship Creek	7/12/1989	2A4	T	Benzene	71-43-2	2420	5
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW2	T	Benzene	71-43-2	2600	5
LP025	Chevron	Terminal Reserve	5/3/1999	MW1	T	Benzene	71-43-2	2600	5
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW2	T	Benzene	71-43-2	2700	5
LP991	Arctic Cooperage	North of Ship Creek	3/5/1998	CHMW2	T	Benzene	71-43-2	2700	5
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE2	T	Benzene	71-43-2	2700	5
LP022	Municipal Light & Power	South of Ship Creek	4/24/1989	2A6	T	Benzene	71-43-2	2700	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1987	SS2	T	Benzene	71-43-2	2710	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	SS2	T	Benzene	71-43-2	2710	5
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW2	T	Benzene	71-43-2	2800	5
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW5A	T	Benzene	71-43-2	2800	5
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE2	T	Benzene	71-43-2	2800	5
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE2	T	Benzene	71-43-2	2900	5
LP025	Chevron	Terminal Reserve	5/3/1999	MW16	T	Benzene	71-43-2	2930	5
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW2	T	Benzene	71-43-2	3000	5
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW2	T	Benzene	71-43-2	3000	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW4A	T	Benzene	71-43-2	3000	5
LP022	Municipal Light & Power	South of Ship Creek	4/24/1989	2A4	T	Benzene	71-43-2	3010	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	PWPL	T	Benzene	71-43-2	3070	5
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW2	T	Benzene	71-43-2	3100	5
LP991	Arctic Cooperage	North of Ship Creek	8/26/1997	CHMW2	T	Benzene	71-43-2	3100	5
LP003	Flint Hills	Terminal Reserve	4/12/1994	MW13A	T	Benzene	71-43-2	3190	5
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	PW6	T	Benzene	71-43-2	3200	5
LP003	Flint Hills	Terminal Reserve	12/23/1997	MW5	T	Benzene	71-43-2	3260	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/25/2003	PW19B	T	Benzene	71-43-2	3270	5
LP022	Municipal Light & Power	South of Ship Creek	5/22/1989	2A1	T	Benzene	71-43-2	3277	5
LP003	Flint Hills	Terminal Reserve	9/28/1989	MW5	T	Benzene	71-43-2	3280	5
LP025	Chevron	Terminal Reserve	5/27/2003	MW1	T	Benzene	71-43-2	3300	5
LP003	Flint Hills	Terminal Reserve	3/1/1994	MW5	T	Benzene	71-43-2	3400	5
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW5	T	Benzene	71-43-2	3400	5

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs)
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW5	T	Benzene	71-43-2	3400	5
LP025	Chevron	Terminal Reserve	5/23/2000	MW16	T	Benzene	71-43-2	3540	5
LP991	Arctic Cooperage	North of Ship Creek	9/29/2000	CHMW2	T	Benzene	71-43-2	3600	5
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	SS2	T	Benzene	71-43-2	3600	5
LP022	Municipal Light & Power	South of Ship Creek	9/29/1989	2A1	T	Benzene	71-43-2	3630	5
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW2	T	Benzene	71-43-2	3700	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	MW1	T	Benzene	71-43-2	3700	5
LP134	HW Alaska LLC	North of Ship Creek	10/5/1993	MW1	T	Benzene	71-43-2	3800	5
LP022	Municipal Light & Power	South of Ship Creek	7/22/1989	2A1	T	Benzene	71-43-2	3820	5
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	PWPL	T	Benzene	71-43-2	3860	5
LP991	Arctic Cooperage	North of Ship Creek	11/3/1997	CHMW2	T	Benzene	71-43-2	4000	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6A	T	Benzene	71-43-2	4300	5
LP022	Municipal Light & Power	South of Ship Creek	9/29/1989	2A4	T	Benzene	71-43-2	4330	5
LP019	Tesoro Terminal #1	Terminal Reserve	9/14/2000	PW19B	T	Benzene	71-43-2	4330	5
LP019	Tesoro Terminal #1	Terminal Reserve	8/6/1998	PW6	T	Benzene	71-43-2	4400	5
LP022	Municipal Light & Power	South of Ship Creek	5/22/1989	A1	T	Benzene	71-43-2	4430	5
LP003	Flint Hills	Terminal Reserve	8/27/1996	MW5	T	Benzene	71-43-2	4560	5
LP003	Flint Hills	Terminal Reserve	11/25/1996	MW5	T	Benzene	71-43-2	4640	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/16/1989	MW13A	T	Benzene	71-43-2	4740	5
LP022	Municipal Light & Power	South of Ship Creek	5/8/1989	2A3	T	Benzene	71-43-2	4770	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW16	T	Benzene	71-43-2	4800	5
LP025	Chevron	Terminal Reserve	6/8/2004	MW16	T	Benzene	71-43-2	4900	5
LP025	Chevron	Terminal Reserve	4/24/1997	MW16	T	Benzene	71-43-2	5290	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW16	T	Benzene	71-43-2	5400	5
LP022	Municipal Light & Power	South of Ship Creek	5/8/1989	3A1	T	Benzene	71-43-2	5580	5
LP022	Municipal Light & Power	South of Ship Creek	4/24/1989	2A3	T	Benzene	71-43-2	6700	5
LP019	Tesoro Terminal #1	Terminal Reserve	8/10/1998	PW19B	T	Benzene	71-43-2	6900	5
LP003	Flint Hills	Terminal Reserve	1/28/1998	MW6	T	Benzene	71-43-2	6940	5
LP025	Chevron	Terminal Reserve	5/3/1999	MW16	T	Benzene	71-43-2	7320	5
LP003	Flint Hills	Terminal Reserve	6/20/1988	MW5	T	Benzene	71-43-2	7400	5
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	PWPL	T	Benzene	71-43-2	7630	5
LP003	Flint Hills	Terminal Reserve	12/19/1989	MW5	T	Benzene	71-43-2	8710	5
LP025	Chevron	Terminal Reserve	9/30/2002	MW16	T	Benzene	71-43-2	9550	5
LP022	Municipal Light & Power	South of Ship Creek	9/29/1989	A1	T	Benzene	71-43-2	9690	5
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	PW19B	T	Benzene	71-43-2	11500	5
LP003	Flint Hills	Terminal Reserve	12/23/1987	MW5	T	Benzene	71-43-2	12000	5
LP022	Municipal Light & Power	South of Ship Creek	5/8/1989	2A1	T	Benzene	71-43-2	12000	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/18/2002	PW19B	T	Benzene	71-43-2	12600	5
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	PW19B	T	Benzene	71-43-2	12600	5
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW1	T	Benzene	71-43-2	13000	5
LP003	Flint Hills	Terminal Reserve	6/19/1989	MW5	T	Benzene	71-43-2	13100	5
LP025	Chevron	Terminal Reserve	10/16/1989	MW16	T	Benzene	71-43-2	14300	5
LP003	Flint Hills	Terminal Reserve	3/21/1989	MW5	T	Benzene	71-43-2	14300	5
LP022	Municipal Light & Power	South of Ship Creek	5/8/1989	A1	T	Benzene	71-43-2	14400	5
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	PWPL	T	Benzene	71-43-2	15000	5

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	PWPL	T	Benzene	71-43-2	16000	5
LP022	Municipal Light & Power	South of Ship Creek	7/12/1989	A1	T	Benzene	71-43-2	17000	5
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	PWPL	T	Benzene	71-43-2	17000	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/8/1997	TPGW3	T	Benzene	71-43-2	17000	5
LP025	Chevron	Terminal Reserve	10/14/1994	MW16	T	Benzene	71-43-2	19000	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1993	PWPL	T	Benzene	71-43-2	22000	5
LP025	Chevron	Terminal Reserve	9/18/1998	MW16	T	Benzene	71-43-2	25000	5
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	PW7	T	Benzene	71-43-2	26000	5
LP022	Municipal Light & Power	South of Ship Creek	4/24/1989	2A1	T	Benzene	71-43-2	41900	5
LP022	Municipal Light & Power	South of Ship Creek	4/13/1989	A1	T	Benzene	71-43-2	119000	5
LP022	Municipal Light & Power	South of Ship Creek	5/3/1989	2A6	T	Benzene	71-43-2	678000	5
LP019	Tesoro Terminal #1	Terminal Reserve	10/8/1997	TPGW1	T	Benzene	71-43-2	24000000	5
LP024	Prescott Equipment	North of Ship Creek	9/1/1998	MW3	T	Beryllium	7440-41-7	4.61	4
LP024	Prescott Equipment	North of Ship Creek	8/14/1998	MW3	T	Beryllium	7440-41-7	4.61	4
LP120	KAPP	North of Ship Creek	1/1/1998	145U	T	Beryllium	7440-41-7	5.9	4
LP120	KAPP	North of Ship Creek	10/8/1998	145U	T	Beryllium	7440-41-7	5.9	4
LP024	Prescott Equipment	North of Ship Creek	9/1/1998	MW3	T	Beryllium	7440-41-7	6.33	4
LP024	Prescott Equipment	North of Ship Creek	8/14/1998	MW3	T	Beryllium	7440-41-7	6.33	4
LP024	Prescott Equipment	North of Ship Creek	9/18/2000	B2	T	Bromochloromethane	74-97-5	1	0.5
LP024	Prescott Equipment	North of Ship Creek	9/18/2000	B3	T	Bromochloromethane	74-97-5	1	0.5
LP991	Arctic Cooperage	North of Ship Creek	9/29/2000	CHMW3	T	Bromochloromethane	74-97-5	44	0.5
LP127	Post Road Company - Tenancy	North of Ship Creek	8/31/1999	B3	T	Cadmium	7440-43-9	5.39	5
LP065	Princess Tours	North of Ship Creek	6/5/1992	4MW	T	Cadmium	7440-43-9	6	5
LP127	Post Road Company - Tenancy	North of Ship Creek	8/31/1999	B2	T	Cadmium	7440-43-9	6.42	5
LP065	Princess Tours	North of Ship Creek	6/5/1992	MW1	T	Cadmium	7440-43-9	9	5
LP024	Prescott Equipment	North of Ship Creek	9/18/2000	B3	D	Cadmium	7440-43-9	10	5
RY065	Railyard	North of Ship Creek	2/7/2001	7MW	T	Cadmium	7440-43-9	11.2	5
RY065	Railyard	North of Ship Creek	2/7/2001	6MW	T	Cadmium	7440-43-9	14.3	5
RY065	Railyard	North of Ship Creek	2/7/2001	9MW	T	Cadmium	7440-43-9	15.9	5
RY065	Railyard	North of Ship Creek	2/7/2001	7MW	T	Cadmium	7440-43-9	20.7	5
LP065	Princess Tours	North of Ship Creek	6/5/1992	MW3	T	Cadmium	7440-43-9	22	5
RY065	Railyard	North of Ship Creek	2/7/2001	10MW	T	Cadmium	7440-43-9	28.2	5
RY065	Railyard	North of Ship Creek	2/7/2001	8MW	T	Cadmium	7440-43-9	44.4	5
LP024	Prescott Equipment	North of Ship Creek	9/18/2000	B3	T	Cadmium	7440-43-9	50	5
LP024	Prescott Equipment	North of Ship Creek	9/18/2000	B3	T	Cadmium	7440-43-9	53.3	5
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW2	T	Chloroethane	75-00-3	35	4.637023572
LP024	Prescott Equipment	North of Ship Creek	9/1/1998	MW3	T	Chromium	7440-47-3	118	100
LP024	Prescott Equipment	North of Ship Creek	8/14/1998	MW3	T	Chromium	7440-47-3	118	100
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE3	T	Chromium	7440-47-3	121	100
LP024	Prescott Equipment	North of Ship Creek	8/14/1998	MW3	T	Chromium	7440-47-3	150	100
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE5	T	Chromium	7440-47-3	178	100
LP024	Prescott Equipment	North of Ship Creek	9/1/1998	MW3	T	Chromium	7440-47-3	189	100
LP024	Prescott Equipment	North of Ship Creek	8/14/1998	MW3	T	Chromium	7440-47-3	189	100
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE2	T	Chromium	7440-47-3	201	100
LP024	Prescott Equipment	North of Ship Creek	9/18/2000	B2	T	Chromium	7440-47-3	282	100

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP065	Princess Tours	North of Ship Creek	6/5/1992	4MW	T	Chromium	7440-47-3	360	100
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW25	T	Chromium	7440-47-3	400	100
LP065	Princess Tours	North of Ship Creek	6/5/1992	MW1	T	Chromium	7440-47-3	400	100
LP120	KAPP	North of Ship Creek	1/1/1998	145U	T	Chromium	7440-47-3	401	100
LP120	KAPP	North of Ship Creek	10/8/1998	145U	T	Chromium	7440-47-3	401	100
LP024	Prescott Equipment	North of Ship Creek	9/18/2000	B3	T	Chromium	7440-47-3	597	100
LP024	Prescott Equipment	North of Ship Creek	9/18/2000	B3	T	Chromium	7440-47-3	600	100
LP065	Princess Tours	North of Ship Creek	6/5/1992	MW3	T	Chromium	7440-47-3	620	100
LP127	Post Road Company - Tenancy	North of Ship Creek	8/31/1999	B1	T	Chromium	7440-47-3	951	100
RY065	Railyard	North of Ship Creek	2/7/2001	9MW	T	Chromium	7440-47-3	1040	100
RY065	Railyard	North of Ship Creek	2/7/2001	6MW	T	Chromium	7440-47-3	1060	100
LP127	Post Road Company - Tenancy	North of Ship Creek	8/31/1999	B3	T	Chromium	7440-47-3	1540	100
LP127	Post Road Company - Tenancy	North of Ship Creek	8/31/1999	B2	T	Chromium	7440-47-3	1560	100
RY065	Railyard	North of Ship Creek	2/7/2001	8MW	T	Chromium	7440-47-3	1770	100
RY065	Railyard	North of Ship Creek	2/7/2001	7MW	T	Chromium	7440-47-3	1880	100
RY065	Railyard	North of Ship Creek	2/7/2001	7MW	T	Chromium	7440-47-3	2740	100
RY065	Railyard	North of Ship Creek	2/7/2001	10MW	T	Chromium	7440-47-3	3730	100
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW3	T	cis-1,2-Dichloroethene	156-59-2	75	70
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW3	T	cis-1,2-Dichloroethene	156-59-2	76	70
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW3	T	cis-1,2-Dichloroethene	156-59-2	94	70
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW5	T	cis-1,2-Dichloroethene	156-59-2	230	70
LP991	Arctic Cooperage	North of Ship Creek	9/29/2000	CHMW2	T	cis-1,2-Dichloroethene	156-59-2	260	70
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW2	T	cis-1,2-Dichloroethene	156-59-2	450	70
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW2	T	cis-1,2-Dichloroethene	156-59-2	730	70
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE2	T	cis-1,2-Dichloroethene	156-59-2	790	70
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW2	T	cis-1,2-Dichloroethene	156-59-2	850	70
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW5A	T	cis-1,2-Dichloroethene	156-59-2	850	70
LP991	Arctic Cooperage	North of Ship Creek	11/3/1997	CHMW2	T	cis-1,2-Dichloroethene	156-59-2	1100	70
LP991	Arctic Cooperage	North of Ship Creek	3/5/1998	CHMW2	T	cis-1,2-Dichloroethene	156-59-2	1100	70
LP134	HW Alaska LLC	North of Ship Creek	3/27/1998	MW1	T	Copper	7440-50-8	10	1.3
LP024	Prescott Equipment	North of Ship Creek	9/1/1998	B1	T	Copper	7440-50-8	13.1	1.3
LP024	Prescott Equipment	North of Ship Creek	8/14/1998	B1	T	Copper	7440-50-8	13.1	1.3
LP120	KAPP	North of Ship Creek	1/1/1998	145N	T	Copper	7440-50-8	14.5	1.3
LP120	KAPP	North of Ship Creek	10/8/1998	145N	T	Copper	7440-50-8	14.5	1.3
LP991	Arctic Cooperage	North of Ship Creek	8/18/1999	CHMW3	T	Copper	7440-50-8	21	1.3
LP024	Prescott Equipment	North of Ship Creek	9/1/1998	MW2	D	Copper	7440-50-8	22.7	1.3
LP024	Prescott Equipment	North of Ship Creek	8/14/1998	MW2	D	Copper	7440-50-8	22.7	1.3
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE4	D	Copper	7440-50-8	23	1.3
LP120	KAPP	North of Ship Creek	1/1/1998	145F	T	Copper	7440-50-8	28.5	1.3
LP120	KAPP	North of Ship Creek	10/8/1998	145F	T	Copper	7440-50-8	28.5	1.3
LP991	Arctic Cooperage	North of Ship Creek	8/5/1997	CHHP1	T	Copper	7440-50-8	30	1.3
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE4	T	Copper	7440-50-8	36	1.3
LP024	Prescott Equipment	North of Ship Creek	9/1/1998	MW2	T	Copper	7440-50-8	65.2	1.3
LP024	Prescott Equipment	North of Ship Creek	8/14/1998	MW2	T	Copper	7440-50-8	65.2	1.3
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE1	T	Copper	7440-50-8	89	1.3

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP024	Prescott Equipment	North of Ship Creek	9/1/1998	MW3	T	Copper	7440-50-8	187	1.3
LP024	Prescott Equipment	North of Ship Creek	8/14/1998	MW3	T	Copper	7440-50-8	187	1.3
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE3	T	Copper	7440-50-8	219	1.3
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE5	T	Copper	7440-50-8	226	1.3
LP024	Prescott Equipment	North of Ship Creek	9/1/1998	MW3	T	Copper	7440-50-8	250	1.3
LP024	Prescott Equipment	North of Ship Creek	8/14/1998	MW3	T	Copper	7440-50-8	250	1.3
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE2	T	Copper	7440-50-8	258	1.3
LP120	KAPP	North of Ship Creek	1/1/1998	145U	T	Copper	7440-50-8	452	1.3
LP120	KAPP	North of Ship Creek	10/8/1998	145U	T	Copper	7440-50-8	452	1.3
LP025	Chevron	Terminal Reserve	5/23/2000	MW1	T	Diesel Range Hydrocarbons	DRO	1510	1500
LP025	Chevron	Terminal Reserve	5/3/2001	MW20	T	Diesel Range Hydrocarbons	DRO	1520	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	MW3	T	Diesel Range Hydrocarbons	DRO	1520	1500
LP022	Municipal Light & Power	South of Ship Creek	11/19/1999	MW28	T	Diesel Range Hydrocarbons	DRO	1550	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/17/2002	PW5	T	Diesel Range Hydrocarbons	DRO	1580	1500
RY065	Railyard	North of Ship Creek	2/7/2001	9MW	T	Diesel Range Hydrocarbons	DRO	1590	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/25/2003	PW20	T	Diesel Range Hydrocarbons	DRO	1590	1500
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR1	T	Diesel Range Hydrocarbons	DRO	1600	1500
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR1	T	Diesel Range Hydrocarbons	DRO	1600	1500
LP025	Chevron	Terminal Reserve	6/8/2004	MW20	T	Diesel Range Hydrocarbons	DRO	1600	1500
LP003	Flint Hills	Terminal Reserve	10/17/2003	12MW	T	Diesel Range Hydrocarbons	DRO	1600	1500
LP003	Flint Hills	Terminal Reserve	10/20/2003	MW12	T	Diesel Range Hydrocarbons	DRO	1600	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW9	T	Diesel Range Hydrocarbons	DRO	1600	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/4/1989	MW5	T	Diesel Range Hydrocarbons	DRO	1600	1500
LP025	Chevron	Terminal Reserve	5/23/2000	MW4	T	Diesel Range Hydrocarbons	DRO	1620	1500
LP025	Chevron	Terminal Reserve	4/24/1997	MW4	T	Diesel Range Hydrocarbons	DRO	1620	1500
LP022	Municipal Light & Power	South of Ship Creek	7/7/1999	MW28	T	Diesel Range Hydrocarbons	DRO	1630	1500
LP025	Chevron	Terminal Reserve	4/24/1997	MW4	T	Diesel Range Hydrocarbons	DRO	1680	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PW6	T	Diesel Range Hydrocarbons	DRO	1680	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	PWPL	T	Diesel Range Hydrocarbons	DRO	1680	1500
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR2	T	Diesel Range Hydrocarbons	DRO	1700	1500
LP025	Chevron	Terminal Reserve	6/8/2004	MW5	T	Diesel Range Hydrocarbons	DRO	1700	1500
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW10	T	Diesel Range Hydrocarbons	DRO	1700	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW10	T	Diesel Range Hydrocarbons	DRO	1700	1500
LP003	Flint Hills	Terminal Reserve	4/12/1994	MW25	T	Diesel Range Hydrocarbons	DRO	1700	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	MW5	T	Diesel Range Hydrocarbons	DRO	1700	1500
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW4	T	Diesel Range Hydrocarbons	DRO	1710	1500
LP025	Chevron	Terminal Reserve	5/23/2000	MW5	T	Diesel Range Hydrocarbons	DRO	1730	1500
LP025	Chevron	Terminal Reserve	5/3/1999	MW16	T	Diesel Range Hydrocarbons	DRO	1780	1500
LP022	Municipal Light & Power	South of Ship Creek	7/8/1994	MW3	T	Diesel Range Hydrocarbons	DRO	1800	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1993	MW3	T	Diesel Range Hydrocarbons	DRO	1800	1500
LP991	Arctic Cooperage	North of Ship Creek	11/18/1997	TR7	T	Diesel Range Hydrocarbons	DRO	1890	1500
LP003	Flint Hills	Terminal Reserve	8/19/2004	MW4	T	Diesel Range Hydrocarbons	DRO	1900	1500
LP003	Flint Hills	Terminal Reserve	8/19/2002	MW4	T	Diesel Range Hydrocarbons	DRO	1900	1500
LP022	Municipal Light & Power	South of Ship Creek	7/8/1994	MW3	T	Diesel Range Hydrocarbons	DRO	1900	1500
LP022	Municipal Light & Power	South of Ship Creek	5/1/1994	MW3	T	Diesel Range Hydrocarbons	DRO	1900	1500

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP991	Arctic Cooperage	North of Ship Creek	8/27/1997	CHMW4	T	Diesel Range Hydrocarbons	DRO	1920	1500
LP022	Municipal Light & Power	South of Ship Creek	7/7/1999	MW24	T	Diesel Range Hydrocarbons	DRO	1920	1500
LP134	HW Alaska LLC	North of Ship Creek	7/9/1998	MW3	T	Diesel Range Hydrocarbons	DRO	1970	1500
LP025	Chevron	Terminal Reserve	6/8/2004	MW1	T	Diesel Range Hydrocarbons	DRO	2000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	PW21	T	Diesel Range Hydrocarbons	DRO	2020	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PW15	T	Diesel Range Hydrocarbons	DRO	2030	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	MW5	T	Diesel Range Hydrocarbons	DRO	2040	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	PW5	T	Diesel Range Hydrocarbons	DRO	2040	1500
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW3	T	Diesel Range Hydrocarbons	DRO	2070	1500
LP025	Chevron	Terminal Reserve	5/13/1998	MW2	T	Diesel Range Hydrocarbons	DRO	2070	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	PW23	T	Diesel Range Hydrocarbons	DRO	2070	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	MW2	T	Diesel Range Hydrocarbons	DRO	2070	1500
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	PWPL	T	Diesel Range Hydrocarbons	DRO	2070	1500
LP025	Chevron	Terminal Reserve	9/18/1998	MW18	T	Diesel Range Hydrocarbons	DRO	2080	1500
LP991	Arctic Cooperage	North of Ship Creek	8/27/1997	CHMW4	T	Diesel Range Hydrocarbons	DRO	2100	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW20	T	Diesel Range Hydrocarbons	DRO	2100	1500
LP022	Municipal Light & Power	South of Ship Creek	3/31/1992	2A4	T	Diesel Range Hydrocarbons	DRO	2100	1500
LP022	Municipal Light & Power	South of Ship Creek	6/1/1996	MW3	T	Diesel Range Hydrocarbons	DRO	2100	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PWPL	T	Diesel Range Hydrocarbons	DRO	2120	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2002	PWPL	T	Diesel Range Hydrocarbons	DRO	2120	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	PW9	T	Diesel Range Hydrocarbons	DRO	2130	1500
LP025	Chevron	Terminal Reserve	5/3/2001	MW1	T	Diesel Range Hydrocarbons	DRO	2140	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/25/2003	PW19B	T	Diesel Range Hydrocarbons	DRO	2140	1500
LP025	Chevron	Terminal Reserve	5/3/1999	MW16	T	Diesel Range Hydrocarbons	DRO	2150	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	PW22	T	Diesel Range Hydrocarbons	DRO	2170	1500
LP025	Chevron	Terminal Reserve	5/3/2001	MW16	T	Diesel Range Hydrocarbons	DRO	2180	1500
LP003	Flint Hills	Terminal Reserve	4/30/2004	MW6	T	Diesel Range Hydrocarbons	DRO	2180	1500
LP025	Chevron	Terminal Reserve	10/14/1994	MW14	T	Diesel Range Hydrocarbons	DRO	2200	1500
LP025	Chevron	Terminal Reserve	6/8/2004	MW4	T	Diesel Range Hydrocarbons	DRO	2200	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/6/1998	PW6	T	Diesel Range Hydrocarbons	DRO	2200	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/25/2003	PW9	T	Diesel Range Hydrocarbons	DRO	2200	1500
LP127	Post Road Company - Tenancy	North of Ship Creek	8/31/1999	B3	T	Diesel Range Hydrocarbons	DRO	2220	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	PW8	T	Diesel Range Hydrocarbons	DRO	2220	1500
LP991	Arctic Cooperage	North of Ship Creek	8/27/1997	CHMW4	T	Diesel Range Hydrocarbons	DRO	2290	1500
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	PW9	T	Diesel Range Hydrocarbons	DRO	2290	1500
LP991	Arctic Cooperage	North of Ship Creek	2/19/2003	CHMW3	T	Diesel Range Hydrocarbons	DRO	2300	1500
LP022	Municipal Light & Power	South of Ship Creek	6/5/1991	2A3	T	Diesel Range Hydrocarbons	DRO	2300	1500
LP022	Municipal Light & Power	South of Ship Creek	4/27/1994	MW3	T	Diesel Range Hydrocarbons	DRO	2320	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	PW20	T	Diesel Range Hydrocarbons	DRO	2360	1500
LP991	Arctic Cooperage	North of Ship Creek	2/19/2003	CHMW1A	T	Diesel Range Hydrocarbons	DRO	2400	1500
LP003	Flint Hills	Terminal Reserve	10/20/2003	MW5	T	Diesel Range Hydrocarbons	DRO	2400	1500
LP022	Municipal Light & Power	South of Ship Creek	6/12/1991	2A1	T	Diesel Range Hydrocarbons	DRO	2400	1500
LP022	Municipal Light & Power	South of Ship Creek	6/1/1996	MW13	T	Diesel Range Hydrocarbons	DRO	2400	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1993	PWPL	T	Diesel Range Hydrocarbons	DRO	2400	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1993	RWW	T	Diesel Range Hydrocarbons	DRO	2400	1500

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP003	Flint Hills	Terminal Reserve	3/6/2001	12MW	T	Diesel Range Hydrocarbons	DRO	2440	1500
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW25	T	Diesel Range Hydrocarbons	DRO	2500	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW25	T	Diesel Range Hydrocarbons	DRO	2500	1500
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW6	T	Diesel Range Hydrocarbons	DRO	2500	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6	T	Diesel Range Hydrocarbons	DRO	2500	1500
LP022	Municipal Light & Power	South of Ship Creek	9/29/1994	MLS4	T	Diesel Range Hydrocarbons	DRO	2500	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/10/1998	PW18	T	Diesel Range Hydrocarbons	DRO	2500	1500
LP022	Municipal Light & Power	South of Ship Creek	9/29/1994	MLS2	T	Diesel Range Hydrocarbons	DRO	2570	1500
LP003	Flint Hills	Terminal Reserve	1/17/1992	MW6	T	Diesel Range Hydrocarbons	DRO	2590	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6A	T	Diesel Range Hydrocarbons	DRO	2600	1500
LP022	Municipal Light & Power	South of Ship Creek	6/1/1996	MW12	T	Diesel Range Hydrocarbons	DRO	2600	1500
LP025	Chevron	Terminal Reserve	4/24/1997	MW16	T	Diesel Range Hydrocarbons	DRO	2620	1500
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	MW5	T	Diesel Range Hydrocarbons	DRO	2630	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2002	MW5	T	Diesel Range Hydrocarbons	DRO	2710	1500
LP025	Chevron	Terminal Reserve	5/3/2001	MW5	T	Diesel Range Hydrocarbons	DRO	2730	1500
LP025	Chevron	Terminal Reserve	5/3/2001	MW4	T	Diesel Range Hydrocarbons	DRO	2750	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/21/2002	MW9	T	Diesel Range Hydrocarbons	DRO	2780	1500
LP003	Flint Hills	Terminal Reserve	4/12/1994	MW26	T	Diesel Range Hydrocarbons	DRO	2790	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	PW15	T	Diesel Range Hydrocarbons	DRO	2810	1500
LP991	Arctic Cooperage	North of Ship Creek	2/19/2003	CHMW3	T	Diesel Range Hydrocarbons	DRO	2900	1500
LP025	Chevron	Terminal Reserve	5/27/2003	MW5	T	Diesel Range Hydrocarbons	DRO	2900	1500
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW24	T	Diesel Range Hydrocarbons	DRO	2900	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW24	T	Diesel Range Hydrocarbons	DRO	2900	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	MW1	T	Diesel Range Hydrocarbons	DRO	2930	1500
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	MW5	T	Diesel Range Hydrocarbons	DRO	2940	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	MW9	T	Diesel Range Hydrocarbons	DRO	2960	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	PW9	T	Diesel Range Hydrocarbons	DRO	2960	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	PW5	T	Diesel Range Hydrocarbons	DRO	2970	1500
LP025	Chevron	Terminal Reserve	10/14/1994	MW18	T	Diesel Range Hydrocarbons	DRO	3000	1500
LP022	Municipal Light & Power	South of Ship Creek	7/8/1994	SBPZG2	T	Diesel Range Hydrocarbons	DRO	3000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	PW6	T	Diesel Range Hydrocarbons	DRO	3000	1500
LP025	Chevron	Terminal Reserve	4/20/1998	MW16	T	Diesel Range Hydrocarbons	DRO	3001	1500
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE5	T	Diesel Range Hydrocarbons	DRO	3080	1500
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	MW9	T	Diesel Range Hydrocarbons	DRO	3080	1500
LP025	Chevron	Terminal Reserve	5/27/2003	MW16	T	Diesel Range Hydrocarbons	DRO	3100	1500
LP025	Chevron	Terminal Reserve	5/27/2003	MW18	T	Diesel Range Hydrocarbons	DRO	3100	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	PW24	T	Diesel Range Hydrocarbons	DRO	3160	1500
LP022	Municipal Light & Power	South of Ship Creek	6/1/1996	MW3	T	Diesel Range Hydrocarbons	DRO	3200	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/4/1989	MW4	T	Diesel Range Hydrocarbons	DRO	3200	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	MW9	T	Diesel Range Hydrocarbons	DRO	3240	1500
LP003	Flint Hills	Terminal Reserve	4/29/2004	MW9	T	Diesel Range Hydrocarbons	DRO	3260	1500
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR4	T	Diesel Range Hydrocarbons	DRO	3300	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6A	T	Diesel Range Hydrocarbons	DRO	3300	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6	T	Diesel Range Hydrocarbons	DRO	3300	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1993	MW6	T	Diesel Range Hydrocarbons	DRO	3300	1500

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	MW1	T	Diesel Range Hydrocarbons	DRO	3300	1500
LP991	Arctic Cooperage	North of Ship Creek	8/26/1997	CHMW1	T	Diesel Range Hydrocarbons	DRO	3320	1500
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW4A	T	Diesel Range Hydrocarbons	DRO	3350	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/21/2002	PW9	T	Diesel Range Hydrocarbons	DRO	3370	1500
LP025	Chevron	Terminal Reserve	9/30/2002	MW5	T	Diesel Range Hydrocarbons	DRO	3390	1500
LP991	Arctic Cooperage	North of Ship Creek	2/19/2003	CHMW5A	T	Diesel Range Hydrocarbons	DRO	3400	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PW22	T	Diesel Range Hydrocarbons	DRO	3460	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/9/2000	PW22	T	Diesel Range Hydrocarbons	DRO	3460	1500
RY065	Railyard	North of Ship Creek	2/7/2001	10MW	T	Diesel Range Hydrocarbons	DRO	3490	1500
LP003	Flint Hills	Terminal Reserve	8/16/2002	MW12	T	Diesel Range Hydrocarbons	DRO	3500	1500
LP003	Flint Hills	Terminal Reserve	8/19/2002	12MW	T	Diesel Range Hydrocarbons	DRO	3500	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW7	T	Diesel Range Hydrocarbons	DRO	3500	1500
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	MW6	T	Diesel Range Hydrocarbons	DRO	3640	1500
LP991	Arctic Cooperage	North of Ship Creek	3/5/1998	CHMW3	T	Diesel Range Hydrocarbons	DRO	3670	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW19	T	Diesel Range Hydrocarbons	DRO	3800	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	PW19B	T	Diesel Range Hydrocarbons	DRO	3810	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	MW5	T	Diesel Range Hydrocarbons	DRO	3830	1500
RY065	Railyard	North of Ship Creek	9/13/1998	BMW2	T	Diesel Range Hydrocarbons	DRO	3860	1500
LP025	Chevron	Terminal Reserve	9/30/2002	MW16	T	Diesel Range Hydrocarbons	DRO	3930	1500
LP025	Chevron	Terminal Reserve	4/24/1997	MW3	T	Diesel Range Hydrocarbons	DRO	4000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/11/1998	MW9	T	Diesel Range Hydrocarbons	DRO	4000	1500
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR4	T	Diesel Range Hydrocarbons	DRO	4100	1500
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR4	T	Diesel Range Hydrocarbons	DRO	4100	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW11	T	Diesel Range Hydrocarbons	DRO	4100	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/21/1999	MW9	T	Diesel Range Hydrocarbons	DRO	4100	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/10/1998	PW9	T	Diesel Range Hydrocarbons	DRO	4100	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	PW25	T	Diesel Range Hydrocarbons	DRO	4200	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/25/2000	MW9	T	Diesel Range Hydrocarbons	DRO	4200	1500
LP025	Chevron	Terminal Reserve	5/3/1999	MW1	T	Diesel Range Hydrocarbons	DRO	4290	1500
LP003	Flint Hills	Terminal Reserve	8/15/2002	MW19	T	Diesel Range Hydrocarbons	DRO	4300	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/11/1998	MW6	T	Diesel Range Hydrocarbons	DRO	4300	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	MW6	T	Diesel Range Hydrocarbons	DRO	4340	1500
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW4A	T	Diesel Range Hydrocarbons	DRO	4360	1500
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	PW5	T	Diesel Range Hydrocarbons	DRO	4380	1500
LP991	Arctic Cooperage	North of Ship Creek	3/5/1998	CHMW4A	T	Diesel Range Hydrocarbons	DRO	4390	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/21/1999	MW9	T	Diesel Range Hydrocarbons	DRO	4400	1500
LP025	Chevron	Terminal Reserve	5/3/1999	MW4	T	Diesel Range Hydrocarbons	DRO	4480	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	PW19B	T	Diesel Range Hydrocarbons	DRO	4490	1500
LP025	Chevron	Terminal Reserve	5/27/2003	MW14	T	Diesel Range Hydrocarbons	DRO	4500	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1993	MW6	T	Diesel Range Hydrocarbons	DRO	4500	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/18/2002	PW23	T	Diesel Range Hydrocarbons	DRO	4510	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/21/2002	MW5	T	Diesel Range Hydrocarbons	DRO	4580	1500
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW3	T	Diesel Range Hydrocarbons	DRO	4600	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/4/1989	MW1	T	Diesel Range Hydrocarbons	DRO	4600	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/7/1998	PW5	T	Diesel Range Hydrocarbons	DRO	4600	1500

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP991	Arctic Cooperage	North of Ship Creek	12/24/1997	CHMW4A	T	Diesel Range Hydrocarbons	DRO	4620	1500
LP019	Tesoro Terminal #1	Terminal Reserve	9/14/2000	PW22	T	Diesel Range Hydrocarbons	DRO	4630	1500
LP025	Chevron	Terminal Reserve	10/14/1994	MW16	T	Diesel Range Hydrocarbons	DRO	4800	1500
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW19	T	Diesel Range Hydrocarbons	DRO	4800	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW19	T	Diesel Range Hydrocarbons	DRO	4800	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	PW15	T	Diesel Range Hydrocarbons	DRO	4830	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/25/2000	PW9	T	Diesel Range Hydrocarbons	DRO	4830	1500
LP137	Laidlaw Transit	North of Ship Creek	12/1/1998	CHMWE2	T	Diesel Range Hydrocarbons	DRO	4870	1500
LP003	Flint Hills	Terminal Reserve	8/16/2002	MW12	T	Diesel Range Hydrocarbons	DRO	4900	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/25/2003	PW24	T	Diesel Range Hydrocarbons	DRO	4900	1500
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW4	T	Diesel Range Hydrocarbons	DRO	5000	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW4	T	Diesel Range Hydrocarbons	DRO	5000	1500
LP022	Municipal Light & Power	South of Ship Creek	7/8/1994	SBG10	T	Diesel Range Hydrocarbons	DRO	5000	1500
LP022	Municipal Light & Power	South of Ship Creek	7/8/1994	SBPZG4	T	Diesel Range Hydrocarbons	DRO	5000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/14/1994	MW13A	T	Diesel Range Hydrocarbons	DRO	5000	1500
LP003	Flint Hills	Terminal Reserve	4/24/1994	14MW	T	Diesel Range Hydrocarbons	DRO	5030	1500
LP003	Flint Hills	Terminal Reserve	4/24/1994	MW14	T	Diesel Range Hydrocarbons	DRO	5030	1500
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE4	T	Diesel Range Hydrocarbons	DRO	5070	1500
LP025	Chevron	Terminal Reserve	5/3/1999	MW1	T	Diesel Range Hydrocarbons	DRO	5120	1500
LP025	Chevron	Terminal Reserve	5/3/1998	MW3	T	Diesel Range Hydrocarbons	DRO	5120	1500
LP025	Chevron	Terminal Reserve	5/3/1999	MW3	T	Diesel Range Hydrocarbons	DRO	5120	1500
LP025	Chevron	Terminal Reserve	9/18/1998	MW3	T	Diesel Range Hydrocarbons	DRO	5120	1500
LP003	Flint Hills	Terminal Reserve	4/12/1994	MW19	T	Diesel Range Hydrocarbons	DRO	5130	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/17/2002	PW25	T	Diesel Range Hydrocarbons	DRO	5180	1500
LP025	Chevron	Terminal Reserve	6/8/2004	MW16	T	Diesel Range Hydrocarbons	DRO	5200	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	PWPL	T	Diesel Range Hydrocarbons	DRO	5300	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	MW6	T	Diesel Range Hydrocarbons	DRO	5340	1500
LP025	Chevron	Terminal Reserve	10/26/1993	MW15	T	Diesel Range Hydrocarbons	DRO	5400	1500
LP003	Flint Hills	Terminal Reserve	10/17/2003	MW19	T	Diesel Range Hydrocarbons	DRO	5400	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1993	PWPL	T	Diesel Range Hydrocarbons	DRO	5400	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	MW6	T	Diesel Range Hydrocarbons	DRO	5440	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/10/1998	PW19B	T	Diesel Range Hydrocarbons	DRO	5500	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	PW21	T	Diesel Range Hydrocarbons	DRO	5550	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	PW25	T	Diesel Range Hydrocarbons	DRO	5550	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	NS1	T	Diesel Range Hydrocarbons	DRO	5600	1500
LP025	Chevron	Terminal Reserve	9/18/1998	MW16	T	Diesel Range Hydrocarbons	DRO	5660	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/21/1999	MW6	T	Diesel Range Hydrocarbons	DRO	5700	1500
LP024	Prescott Equipment	North of Ship Creek	9/18/2000	B3	T	Diesel Range Hydrocarbons	DRO	5800	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/18/2002	PW19B	T	Diesel Range Hydrocarbons	DRO	5810	1500
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW3	T	Diesel Range Hydrocarbons	DRO	5880	1500
LP019	Tesoro Terminal #1	Terminal Reserve	9/14/2000	PW19B	T	Diesel Range Hydrocarbons	DRO	5990	1500
LP022	Municipal Light & Power	South of Ship Creek	6/1/1996	MW23	T	Diesel Range Hydrocarbons	DRO	6000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	PW19B	T	Diesel Range Hydrocarbons	DRO	6010	1500
LP025	Chevron	Terminal Reserve	5/27/2003	MW1	T	Diesel Range Hydrocarbons	DRO	6100	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW12	T	Diesel Range Hydrocarbons	DRO	6100	1500

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs)
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW1	T	Diesel Range Hydrocarbons	DRO	6150	1500
LP022	Municipal Light & Power	South of Ship Creek	6/1/1996	MW24	T	Diesel Range Hydrocarbons	DRO	6200	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW4A	T	Diesel Range Hydrocarbons	DRO	6300	1500
LP003	Flint Hills	Terminal Reserve	4/30/2004	MW19	T	Diesel Range Hydrocarbons	DRO	6450	1500
LP003	Flint Hills	Terminal Reserve	4/16/1992	MW6	T	Diesel Range Hydrocarbons	DRO	6490	1500
LP003	Flint Hills	Terminal Reserve	4/30/2004	MW5	T	Diesel Range Hydrocarbons	DRO	6500	1500
LP025	Chevron	Terminal Reserve	5/3/1999	MW15B	T	Diesel Range Hydrocarbons	DRO	6750	1500
LP025	Chevron	Terminal Reserve	9/18/1998	MW15B	T	Diesel Range Hydrocarbons	DRO	6750	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/2/1999	PW25	T	Diesel Range Hydrocarbons	DRO	6800	1500
LP025	Chevron	Terminal Reserve	10/26/1993	MW14	T	Diesel Range Hydrocarbons	DRO	6900	1500
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	MW2A	T	Diesel Range Hydrocarbons	DRO	6960	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/25/2003	PW15	T	Diesel Range Hydrocarbons	DRO	7030	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/25/2003	PW25	T	Diesel Range Hydrocarbons	DRO	7040	1500
LP003	Flint Hills	Terminal Reserve	8/19/2002	14MW	T	Diesel Range Hydrocarbons	DRO	7100	1500
LP003	Flint Hills	Terminal Reserve	8/19/2002	MW14	T	Diesel Range Hydrocarbons	DRO	7100	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	SS2	T	Diesel Range Hydrocarbons	DRO	7100	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	PW9	T	Diesel Range Hydrocarbons	DRO	7300	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	PW24	T	Diesel Range Hydrocarbons	DRO	7380	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	PW25	T	Diesel Range Hydrocarbons	DRO	7380	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/25/2003	PWPL	T	Diesel Range Hydrocarbons	DRO	7420	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/25/2003	PW23	T	Diesel Range Hydrocarbons	DRO	7450	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/10/1998	PW15	T	Diesel Range Hydrocarbons	DRO	7500	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	PW25	T	Diesel Range Hydrocarbons	DRO	7580	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1987	SS2	T	Diesel Range Hydrocarbons	DRO	7750	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	SS2	T	Diesel Range Hydrocarbons	DRO	7750	1500
LP991	Arctic Cooperage	North of Ship Creek	8/26/1997	CHMW2	T	Diesel Range Hydrocarbons	DRO	7850	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/2/2001	PW24	T	Diesel Range Hydrocarbons	DRO	7960	1500
LP003	Flint Hills	Terminal Reserve	4/24/1994	MW12	T	Diesel Range Hydrocarbons	DRO	8030	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW12	T	Diesel Range Hydrocarbons	DRO	8030	1500
LP003	Flint Hills	Terminal Reserve	4/24/1994	MW6	T	Diesel Range Hydrocarbons	DRO	8040	1500
LP991	Arctic Cooperage	North of Ship Creek	8/26/1997	CHMW2	T	Diesel Range Hydrocarbons	DRO	8120	1500
LP019	Tesoro Terminal #1	Terminal Reserve	9/18/1998	MW13A	T	Diesel Range Hydrocarbons	DRO	8120	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	MW6	T	Diesel Range Hydrocarbons	DRO	8120	1500
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	PW24	T	Diesel Range Hydrocarbons	DRO	8250	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	MW6	T	Diesel Range Hydrocarbons	DRO	8360	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW5A	T	Diesel Range Hydrocarbons	DRO	8600	1500
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW5	T	Diesel Range Hydrocarbons	DRO	8700	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW5	T	Diesel Range Hydrocarbons	DRO	8700	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW8A	T	Diesel Range Hydrocarbons	DRO	8700	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	MW4	T	Diesel Range Hydrocarbons	DRO	8760	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/22/1999	PW15	T	Diesel Range Hydrocarbons	DRO	8800	1500
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	MW3	T	Diesel Range Hydrocarbons	DRO	8890	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/2/2001	PW15	T	Diesel Range Hydrocarbons	DRO	8890	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	PW23	T	Diesel Range Hydrocarbons	DRO	9090	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW21	T	Diesel Range Hydrocarbons	DRO	9200	1500

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP003	Flint Hills	Terminal Reserve	1/28/1998	MW6	T	Diesel Range Hydrocarbons	DRO	9240	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW19	T	Diesel Range Hydrocarbons	DRO	9300	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/6/1998	MW1	T	Diesel Range Hydrocarbons	DRO	9300	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	PWPL	T	Diesel Range Hydrocarbons	DRO	9300	1500
RY065	Railyard	North of Ship Creek	3/5/1998	BMW2	T	Diesel Range Hydrocarbons	DRO	9310	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PW25	T	Diesel Range Hydrocarbons	DRO	9350	1500
LP019	Tesoro Terminal #1	Terminal Reserve	9/14/2000	PW23	T	Diesel Range Hydrocarbons	DRO	9420	1500
LP003	Flint Hills	Terminal Reserve	1/20/1992	MW19	T	Diesel Range Hydrocarbons	DRO	9600	1500
LP003	Flint Hills	Terminal Reserve	1/20/1992	MW9	T	Diesel Range Hydrocarbons	DRO	9600	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PW24	T	Diesel Range Hydrocarbons	DRO	9700	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/2/1999	PW25	T	Diesel Range Hydrocarbons	DRO	9800	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/11/1998	MW4	T	Diesel Range Hydrocarbons	DRO	9800	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/2/2001	PW23	T	Diesel Range Hydrocarbons	DRO	9980	1500
LP025	Chevron	Terminal Reserve	6/9/2004	MW3	T	Diesel Range Hydrocarbons	DRO	10000	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW9	T	Diesel Range Hydrocarbons	DRO	10000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1993	MW9	T	Diesel Range Hydrocarbons	DRO	10000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1993	MW10	T	Diesel Range Hydrocarbons	DRO	10000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	4/20/1998	MW13A	T	Diesel Range Hydrocarbons	DRO	10000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	MW4	T	Diesel Range Hydrocarbons	DRO	10000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	PW25	T	Diesel Range Hydrocarbons	DRO	10100	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	MW1	T	Diesel Range Hydrocarbons	DRO	10200	1500
LP003	Flint Hills	Terminal Reserve	4/12/1994	MW13A	T	Diesel Range Hydrocarbons	DRO	10290	1500
LP003	Flint Hills	Terminal Reserve	12/23/1997	MW5	T	Diesel Range Hydrocarbons	DRO	10600	1500
LP025	Chevron	Terminal Reserve	6/8/2004	MW14	T	Diesel Range Hydrocarbons	DRO	11000	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW18	T	Diesel Range Hydrocarbons	DRO	11000	1500
LP022	Municipal Light & Power	South of Ship Creek	7/8/1994	SBPZG2	T	Diesel Range Hydrocarbons	DRO	11000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/25/1999	PW24	T	Diesel Range Hydrocarbons	DRO	11000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/6/1998	MW1	T	Diesel Range Hydrocarbons	DRO	11000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	PWPL	T	Diesel Range Hydrocarbons	DRO	11000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	MW4	T	Diesel Range Hydrocarbons	DRO	11100	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	MW9	T	Diesel Range Hydrocarbons	DRO	11200	1500
LP019	Tesoro Terminal #1	Terminal Reserve	4/24/1997	MW13A	T	Diesel Range Hydrocarbons	DRO	11200	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/18/2002	PW21	T	Diesel Range Hydrocarbons	DRO	11600	1500
LP991	Arctic Cooperage	North of Ship Creek	8/26/1997	CHMW3	T	Diesel Range Hydrocarbons	DRO	11800	1500
LP025	Chevron	Terminal Reserve	5/3/1999	MW18	T	Diesel Range Hydrocarbons	DRO	11900	1500
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW26	T	Diesel Range Hydrocarbons	DRO	12000	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW26	T	Diesel Range Hydrocarbons	DRO	12000	1500
LP991	Arctic Cooperage	North of Ship Creek	8/26/1997	CHMW3	T	Diesel Range Hydrocarbons	DRO	12100	1500
LP025	Chevron	Terminal Reserve	4/20/1998	MW18	T	Diesel Range Hydrocarbons	DRO	12200	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PW23	T	Diesel Range Hydrocarbons	DRO	12200	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/27/2003	MW13A	T	Diesel Range Hydrocarbons	DRO	13000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/17/2002	MW6	T	Diesel Range Hydrocarbons	DRO	13500	1500
LP025	Chevron	Terminal Reserve	4/20/1998	MW14	T	Diesel Range Hydrocarbons	DRO	13700	1500
LP025	Chevron	Terminal Reserve	5/3/2001	MW18	T	Diesel Range Hydrocarbons	DRO	13900	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	MW4	T	Diesel Range Hydrocarbons	DRO	14400	1500

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP019	Tesoro Terminal #1	Terminal Reserve	9/30/2002	MW13A	T	Diesel Range Hydrocarbons	DRO	14800	1500
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW3	T	Diesel Range Hydrocarbons	DRO	15000	1500
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW3	T	Diesel Range Hydrocarbons	DRO	15000	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW16	T	Diesel Range Hydrocarbons	DRO	15000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/3/1998	MW13A	T	Diesel Range Hydrocarbons	DRO	15000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/3/1999	MW13A	T	Diesel Range Hydrocarbons	DRO	15000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	9/14/2000	PW15	T	Diesel Range Hydrocarbons	DRO	15100	1500
LP025	Chevron	Terminal Reserve	5/3/1999	MW14	T	Diesel Range Hydrocarbons	DRO	15300	1500
LP025	Chevron	Terminal Reserve	5/3/1999	MW14	T	Diesel Range Hydrocarbons	DRO	15300	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	MW4	T	Diesel Range Hydrocarbons	DRO	15700	1500
LP003	Flint Hills	Terminal Reserve	10/20/2003	MW14	T	Diesel Range Hydrocarbons	DRO	16000	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6A	T	Diesel Range Hydrocarbons	DRO	16000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/10/1998	PW17	T	Diesel Range Hydrocarbons	DRO	16000	1500
LP003	Flint Hills	Terminal Reserve	4/24/1994	MW5	T	Diesel Range Hydrocarbons	DRO	17200	1500
LP025	Chevron	Terminal Reserve	5/3/1999	MW14	T	Diesel Range Hydrocarbons	DRO	17500	1500
LP016	Chevron USA Pipeline	Terminal Reserve	5/3/1999	MW6B	T	Diesel Range Hydrocarbons	DRO	18000	1500
LP065	Princess Tours	North of Ship Creek	6/5/1992	MW1	T	Diesel Range Hydrocarbons	DRO	18000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	MW4	T	Diesel Range Hydrocarbons	DRO	18600	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/17/2002	PW24	T	Diesel Range Hydrocarbons	DRO	18800	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	MW4	T	Diesel Range Hydrocarbons	DRO	18800	1500
LP120	KAPP	North of Ship Creek	1/1/1998	145N	T	Diesel Range Hydrocarbons	DRO	19000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/7/1998	PW14	T	Diesel Range Hydrocarbons	DRO	19000	1500
LP003	Flint Hills	Terminal Reserve	1/28/1998	MW10	T	Diesel Range Hydrocarbons	DRO	19700	1500
LP025	Chevron	Terminal Reserve	5/23/2000	MW14	T	Diesel Range Hydrocarbons	DRO	19900	1500
LP003	Flint Hills	Terminal Reserve	4/30/2004	MW14	T	Diesel Range Hydrocarbons	DRO	19900	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/3/2001	MW13A	T	Diesel Range Hydrocarbons	DRO	19900	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/8/2004	MW13A	T	Diesel Range Hydrocarbons	DRO	20000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/7/1998	PW12	T	Diesel Range Hydrocarbons	DRO	20000	1500
LP025	Chevron	Terminal Reserve	5/3/2001	MW14	T	Diesel Range Hydrocarbons	DRO	20600	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	MW1	T	Diesel Range Hydrocarbons	DRO	20600	1500
LP991	Arctic Cooperage	North of Ship Creek	3/5/1998	CHMW2	T	Diesel Range Hydrocarbons	DRO	21000	1500
LP016	Chevron USA Pipeline	Terminal Reserve	6/8/2004	MW6B	T	Diesel Range Hydrocarbons	DRO	21000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	MW1	T	Diesel Range Hydrocarbons	DRO	21000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	PW7	T	Diesel Range Hydrocarbons	DRO	21000	1500
LP025	Chevron	Terminal Reserve	5/23/2000	MW18	T	Diesel Range Hydrocarbons	DRO	21400	1500
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW14	T	Diesel Range Hydrocarbons	DRO	22000	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	14MW	T	Diesel Range Hydrocarbons	DRO	22000	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW14	T	Diesel Range Hydrocarbons	DRO	22000	1500
LP022	Municipal Light & Power	South of Ship Creek	6/6/1991	2A4	T	Diesel Range Hydrocarbons	DRO	22000	1500
LP025	Chevron	Terminal Reserve	6/9/2004	MW3	T	Diesel Range Hydrocarbons	DRO	23000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/18/2002	MW1	T	Diesel Range Hydrocarbons	DRO	23200	1500
LP025	Chevron	Terminal Reserve	4/24/1997	MW14	T	Diesel Range Hydrocarbons	DRO	23600	1500
LP016	Chevron USA Pipeline	Terminal Reserve	10/14/1994	MW6B	T	Diesel Range Hydrocarbons	DRO	24000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/7/1998	PW13	T	Diesel Range Hydrocarbons	DRO	24000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	MW4	T	Diesel Range Hydrocarbons	DRO	24200	1500

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs)
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP991	Arctic Cooperage	North of Ship Creek	9/29/2000	CHMW3	T	Diesel Range Hydrocarbons	DRO	25000	1500
LP991	Arctic Cooperage	North of Ship Creek	8/27/1997	CHSB6	T	Diesel Range Hydrocarbons	DRO	25000	1500
LP025	Chevron	Terminal Reserve	5/27/2003	MW3	T	Diesel Range Hydrocarbons	DRO	25000	1500
LP022	Municipal Light & Power	South of Ship Creek	7/8/1994	SBG3	T	Diesel Range Hydrocarbons	DRO	25000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/18/2002	MW4	T	Diesel Range Hydrocarbons	DRO	25200	1500
LP025	Chevron	Terminal Reserve	10/26/1993	MW14	T	Diesel Range Hydrocarbons	DRO	26000	1500
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE2	T	Diesel Range Hydrocarbons	DRO	26600	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	MW1	T	Diesel Range Hydrocarbons	DRO	26600	1500
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW5A	T	Diesel Range Hydrocarbons	DRO	27000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/25/2003	MW4	T	Diesel Range Hydrocarbons	DRO	27000	1500
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW1	T	Diesel Range Hydrocarbons	DRO	28000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/11/1998	PW4	T	Diesel Range Hydrocarbons	DRO	28000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/23/2000	MW13A	T	Diesel Range Hydrocarbons	DRO	29500	1500
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	MW1	T	Diesel Range Hydrocarbons	DRO	33000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	5/23/2000	MW13A	T	Diesel Range Hydrocarbons	DRO	33600	1500
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE3	T	Diesel Range Hydrocarbons	DRO	36000	1500
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE3	T	Diesel Range Hydrocarbons	DRO	36600	1500
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW2	T	Diesel Range Hydrocarbons	DRO	37000	1500
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR1	T	Diesel Range Hydrocarbons	DRO	38000	1500
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR1	T	Diesel Range Hydrocarbons	DRO	38000	1500
RY065	Railyard	North of Ship Creek	6/4/1998	BMW2	T	Diesel Range Hydrocarbons	DRO	41000	1500
LP016	Chevron USA Pipeline	Terminal Reserve	9/30/2002	MW6B	T	Diesel Range Hydrocarbons	DRO	41100	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/6/1998	PW1	T	Diesel Range Hydrocarbons	DRO	42000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	8/7/1998	PW3	T	Diesel Range Hydrocarbons	DRO	43000	1500
LP022	Municipal Light & Power	South of Ship Creek	7/8/1994	SBG6	D	Diesel Range Hydrocarbons	DRO	46000	1500
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW3	T	Diesel Range Hydrocarbons	DRO	47000	1500
LP022	Municipal Light & Power	South of Ship Creek	6/1/1996	MW28	T	Diesel Range Hydrocarbons	DRO	49000	1500
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW5	T	Diesel Range Hydrocarbons	DRO	50000	1500
LP022	Municipal Light & Power	South of Ship Creek	7/8/1994	SBG9	T	Diesel Range Hydrocarbons	DRO	52000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	MW4	T	Diesel Range Hydrocarbons	DRO	54800	1500
RY065	Railyard	North of Ship Creek	2/7/2001	7MW	T	Diesel Range Hydrocarbons	DRO	55600	1500
LP025	Chevron	Terminal Reserve	5/27/2003	MW4	T	Diesel Range Hydrocarbons	DRO	57000	1500
LP003	Flint Hills	Terminal Reserve	12/19/1989	MW12	T	Diesel Range Hydrocarbons	DRO	60000	1500
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW12	T	Diesel Range Hydrocarbons	DRO	60000	1500
LP016	Chevron USA Pipeline	Terminal Reserve	9/18/1998	MW6B	T	Diesel Range Hydrocarbons	DRO	63100	1500
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW2	T	Diesel Range Hydrocarbons	DRO	64000	1500
LP022	Municipal Light & Power	South of Ship Creek	6/1/1996	MW28	T	Diesel Range Hydrocarbons	DRO	64000	1500
LP003	Flint Hills	Terminal Reserve	1/28/1998	MW6	T	Diesel Range Hydrocarbons	DRO	65400	1500
RY065	Railyard	North of Ship Creek	12/22/1997	BMW2	T	Diesel Range Hydrocarbons	DRO	69000	1500
LP016	Chevron USA Pipeline	Terminal Reserve	5/27/2003	MW6B	T	Diesel Range Hydrocarbons	DRO	71000	1500
LP016	Chevron USA Pipeline	Terminal Reserve	5/23/2000	MW6B	T	Diesel Range Hydrocarbons	DRO	71100	1500
LP991	Arctic Cooperage	North of Ship Creek	3/5/1998	CHMW1A	T	Diesel Range Hydrocarbons	DRO	79000	1500
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW12	T	Diesel Range Hydrocarbons	DRO	79000	1500
RY065	Railyard	North of Ship Creek	2/7/2001	7MW	T	Diesel Range Hydrocarbons	DRO	79900	1500
RY065	Railyard	North of Ship Creek	12/18/1991	10MW	T	Diesel Range Hydrocarbons	DRO	84000	1500

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP991	Arctic Cooperage	North of Ship Creek	11/18/1997	TR6	T	Diesel Range Hydrocarbons	DRO	89000	1500
LP991	Arctic Cooperage	North of Ship Creek	8/5/1997	CHHP1	T	Diesel Range Hydrocarbons	DRO	92000	1500
LP991	Arctic Cooperage	North of Ship Creek	8/8/1997	CHSB8	T	Diesel Range Hydrocarbons	DRO	92000	1500
LP991	Arctic Cooperage	North of Ship Creek	8/18/1999	CHMW3	T	Diesel Range Hydrocarbons	DRO	93200	1500
RY065	Railyard	North of Ship Creek	12/22/1997	BMW2	T	Diesel Range Hydrocarbons	DRO	96000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	6/25/2003	MW1	T	Diesel Range Hydrocarbons	DRO	98200	1500
LP022	Municipal Light & Power	South of Ship Creek	7/8/1994	SBG5	D	Diesel Range Hydrocarbons	DRO	122000	1500
LP022	Municipal Light & Power	South of Ship Creek	7/8/1994	SBG6	T	Diesel Range Hydrocarbons	DRO	138000	1500
LP022	Municipal Light & Power	South of Ship Creek	7/8/1994	SBPZG4	T	Diesel Range Hydrocarbons	DRO	139000	1500
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW2	T	Diesel Range Hydrocarbons	DRO	140000	1500
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW2	T	Diesel Range Hydrocarbons	DRO	140000	1500
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR3	T	Diesel Range Hydrocarbons	DRO	140000	1500
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW2	T	Diesel Range Hydrocarbons	DRO	150000	1500
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE2	T	Diesel Range Hydrocarbons	DRO	190000	1500
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW1A	T	Diesel Range Hydrocarbons	DRO	200000	1500
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW1A	T	Diesel Range Hydrocarbons	DRO	200000	1500
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW2	T	Diesel Range Hydrocarbons	DRO	220000	1500
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE1	T	Diesel Range Hydrocarbons	DRO	230000	1500
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW1A	T	Diesel Range Hydrocarbons	DRO	240000	1500
LP016	Chevron USA Pipeline	Terminal Reserve	4/20/1998	MW6B	T	Diesel Range Hydrocarbons	DRO	264000	1500
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW5A	T	Diesel Range Hydrocarbons	DRO	280000	1500
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR1	T	Diesel Range Hydrocarbons	DRO	300000	1500
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR1	T	Diesel Range Hydrocarbons	DRO	300000	1500
LP991	Arctic Cooperage	North of Ship Creek	9/29/2000	CHMW2	T	Diesel Range Hydrocarbons	DRO	320000	1500
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE2	T	Diesel Range Hydrocarbons	DRO	330000	1500
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE2	T	Diesel Range Hydrocarbons	DRO	330000	1500
LP016	Chevron USA Pipeline	Terminal Reserve	5/3/2001	MW6B	T	Diesel Range Hydrocarbons	DRO	350000	1500
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE5	T	Diesel Range Hydrocarbons	DRO	390000	1500
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW5A	T	Diesel Range Hydrocarbons	DRO	440000	1500
LP991	Arctic Cooperage	North of Ship Creek	3/5/1998	CHMW5A	T	Diesel Range Hydrocarbons	DRO	470000	1500
RY065	Railyard	North of Ship Creek	12/22/1997	BMW2	T	Diesel Range Hydrocarbons	DRO	900000	1500
LP016	Chevron USA Pipeline	Terminal Reserve	4/20/1998	MW6B	T	Diesel Range Hydrocarbons	DRO	1150000	1500
LP065	Princess Tours	North of Ship Creek	6/5/1992	4MW	T	Diesel Range Hydrocarbons	DRO	1200000	1500
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW5	T	Diesel Range Hydrocarbons	DRO	1400000	1500
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW5A	T	Diesel Range Hydrocarbons	DRO	1400000	1500
LP991	Arctic Cooperage	North of Ship Creek	12/24/1997	CHMW1	T	Diesel Range Hydrocarbons	DRO	1800000	1500
LP991	Arctic Cooperage	North of Ship Creek	12/24/1997	CHMW1A	T	Diesel Range Hydrocarbons	DRO	1800000	1500
LP019	Tesoro Terminal #1	Terminal Reserve	10/25/1999	PW23	T	Diesel Range Hydrocarbons	DRO	7000000	1500
LP991	Arctic Cooperage	North of Ship Creek	8/21/1997	CHHP1	T	Diesel Range Hydrocarbons	DRO	130000000	1500
LP991	Arctic Cooperage	North of Ship Creek	8/21/1997	CHSB8	T	Diesel Range Hydrocarbons	DRO	130000000	1500
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW2	T	Ethylbenzene	100-41-4	710	700
LP022	Municipal Light & Power	South of Ship Creek	5/22/1989	2A1	T	Ethylbenzene	100-41-4	710	700
LP134	HW Alaska LLC	North of Ship Creek	10/5/1993	MW2	T	Ethylbenzene	100-41-4	720	700
LP016	Chevron USA Pipeline	Terminal Reserve	9/18/1998	MW6B	T	Ethylbenzene	100-41-4	726	700
LP991	Arctic Cooperage	North of Ship Creek	9/29/2000	CHMW2	T	Ethylbenzene	100-41-4	730	700

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP022	Municipal Light & Power	South of Ship Creek	9/29/1989	2A3	T	Ethylbenzene	100-41-4	735	700
LP003	Flint Hills	Terminal Reserve	3/21/1989	MW5	T	Ethylbenzene	100-41-4	748	700
LP003	Flint Hills	Terminal Reserve	12/19/1989	MW5	T	Ethylbenzene	100-41-4	766	700
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW5	T	Ethylbenzene	100-41-4	790	700
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW5A	T	Ethylbenzene	100-41-4	790	700
LP991	Arctic Cooperage	North of Ship Creek	11/3/1997	CHMW2	T	Ethylbenzene	100-41-4	800	700
LP991	Arctic Cooperage	North of Ship Creek	8/5/1997	CHHP1	T	Ethylbenzene	100-41-4	810	700
LP991	Arctic Cooperage	North of Ship Creek	8/8/1997	CHSB8	T	Ethylbenzene	100-41-4	810	700
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	SS2	T	Ethylbenzene	100-41-4	810	700
LP991	Arctic Cooperage	North of Ship Creek	12/24/1997	CHMW1	T	Ethylbenzene	100-41-4	860	700
LP991	Arctic Cooperage	North of Ship Creek	12/24/1997	CHMW1A	T	Ethylbenzene	100-41-4	860	700
LP022	Municipal Light & Power	South of Ship Creek	9/29/1989	2A1	T	Ethylbenzene	100-41-4	911	700
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW5	T	Ethylbenzene	100-41-4	950	700
LP022	Municipal Light & Power	South of Ship Creek	7/12/1989	2A3	T	Ethylbenzene	100-41-4	962	700
LP019	Tesoro Terminal #1	Terminal Reserve	4/24/1997	MW13A	T	Ethylbenzene	100-41-4	966	700
LP022	Municipal Light & Power	South of Ship Creek	5/22/1989	2A3	T	Ethylbenzene	100-41-4	987	700
LP019	Tesoro Terminal #1	Terminal Reserve	9/18/1998	MW13A	T	Ethylbenzene	100-41-4	1080	700
LP022	Municipal Light & Power	South of Ship Creek	6/12/1991	2A1	T	Ethylbenzene	100-41-4	1100	700
LP019	Tesoro Terminal #1	Terminal Reserve	11/4/1989	MW1	T	Ethylbenzene	100-41-4	1100	700
LP019	Tesoro Terminal #1	Terminal Reserve	5/27/2003	MW13A	T	Ethylbenzene	100-41-4	1100	700
LP019	Tesoro Terminal #1	Terminal Reserve	10/14/1994	MW13A	T	Ethylbenzene	100-41-4	1100	700
LP019	Tesoro Terminal #1	Terminal Reserve	4/20/1998	MW13A	T	Ethylbenzene	100-41-4	1140	700
LP027	Chevron Former Asphalt	Terminal Reserve	10/16/1989	MW19	T	Ethylbenzene	100-41-4	1190	700
LP019	Tesoro Terminal #1	Terminal Reserve	5/3/1998	MW13A	T	Ethylbenzene	100-41-4	1210	700
LP019	Tesoro Terminal #1	Terminal Reserve	5/3/1999	MW13A	T	Ethylbenzene	100-41-4	1210	700
LP003	Flint Hills	Terminal Reserve	6/19/1989	MW5	T	Ethylbenzene	100-41-4	1300	700
LP022	Municipal Light & Power	South of Ship Creek	5/22/1989	A1	T	Ethylbenzene	100-41-4	1300	700
LP019	Tesoro Terminal #1	Terminal Reserve	6/8/2004	MW13A	T	Ethylbenzene	100-41-4	1300	700
LP019	Tesoro Terminal #1	Terminal Reserve	5/25/2000	PW20	T	Ethylbenzene	100-41-4	1320	700
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PW20	T	Ethylbenzene	100-41-4	1320	700
LP019	Tesoro Terminal #1	Terminal Reserve	5/3/2001	MW13A	T	Ethylbenzene	100-41-4	1340	700
LP019	Tesoro Terminal #1	Terminal Reserve	5/23/2000	MW13A	T	Ethylbenzene	100-41-4	1430	700
LP022	Municipal Light & Power	South of Ship Creek	9/29/1989	2A4	T	Ethylbenzene	100-41-4	1490	700
LP991	Arctic Cooperage	North of Ship Creek	11/7/1997	CHMW5	T	Ethylbenzene	100-41-4	1500	700
LP022	Municipal Light & Power	South of Ship Creek	6/6/1991	2A4	T	Ethylbenzene	100-41-4	1500	700
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	NS1	T	Ethylbenzene	100-41-4	1500	700
LP022	Municipal Light & Power	South of Ship Creek	5/22/1989	2A4	T	Ethylbenzene	100-41-4	1510	700
LP019	Tesoro Terminal #1	Terminal Reserve	5/23/2000	MW13A	T	Ethylbenzene	100-41-4	1550	700
LP022	Municipal Light & Power	South of Ship Creek	5/8/1989	3A1	T	Ethylbenzene	100-41-4	1710	700
LP003	Flint Hills	Terminal Reserve	4/12/1994	MW13A	T	Ethylbenzene	100-41-4	1860	700
LP027	Chevron Former Asphalt	Terminal Reserve	10/16/1989	MW19	T	Ethylbenzene	100-41-4	1990	700
LP027	Chevron Former Asphalt	Terminal Reserve	10/16/1998	MW19	T	Ethylbenzene	100-41-4	1990	700
LP003	Flint Hills	Terminal Reserve	12/23/1987	MW5	T	Ethylbenzene	100-41-4	1990	700
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	PWPL	T	Ethylbenzene	100-41-4	2000	700
LP022	Municipal Light & Power	South of Ship Creek	4/24/1989	2A4	T	Ethylbenzene	100-41-4	2100	700

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP022	Municipal Light & Power	South of Ship Creek	7/12/1989	2A4	T	Ethylbenzene	100-41-4	2210	700
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1999	PW20	T	Ethylbenzene	100-41-4	2300	700
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	PWPL	T	Ethylbenzene	100-41-4	2300	700
LP022	Municipal Light & Power	South of Ship Creek	7/12/1989	A1	T	Ethylbenzene	100-41-4	2340	700
LP134	HW Alaska LLC	North of Ship Creek	5/5/1995	MW1	T	Ethylbenzene	100-41-4	2400	700
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	PW7	T	Ethylbenzene	100-41-4	2500	700
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1993	PWPL	T	Ethylbenzene	100-41-4	2500	700
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	PWPL	T	Ethylbenzene	100-41-4	2500	700
LP022	Municipal Light & Power	South of Ship Creek	7/22/1989	2A1	T	Ethylbenzene	100-41-4	2590	700
LP022	Municipal Light & Power	South of Ship Creek	4/24/1989	2A1	T	Ethylbenzene	100-41-4	2900	700
LP003	Flint Hills	Terminal Reserve	1/28/1998	MW6	T	Ethylbenzene	100-41-4	3090	700
LP022	Municipal Light & Power	South of Ship Creek	9/29/1989	A1	T	Ethylbenzene	100-41-4	5250	700
LP134	HW Alaska LLC	North of Ship Creek	10/5/1993	MW1	T	Ethylbenzene	100-41-4	5600	700
LP022	Municipal Light & Power	South of Ship Creek	5/8/1989	2A1	T	Ethylbenzene	100-41-4	8870	700
LP022	Municipal Light & Power	South of Ship Creek	4/13/1989	A1	T	Ethylbenzene	100-41-4	43400	700
LP019	Tesoro Terminal #1	Terminal Reserve	10/8/1997	TPGW3	T	Ethylbenzene	100-41-4	60000	700
LP022	Municipal Light & Power	South of Ship Creek	5/3/1989	2A6	T	Ethylbenzene	100-41-4	108000	700
LP003	Flint Hills	Terminal Reserve	6/19/1989	MW6	T	Ethylbenzene	100-41-4	245000	700
LP019	Tesoro Terminal #1	Terminal Reserve	10/8/1997	TPGW1	T	Ethylbenzene	100-41-4	2500000	700
LP025	Chevron	Terminal Reserve	4/20/1998	MW14	T	Gasoline Range Hydrocarbons	GRO	1320	1300
LP003	Flint Hills	Terminal Reserve	4/30/2004	MW19	T	Gasoline Range Hydrocarbons	GRO	1390	1300
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW21	T	Gasoline Range Hydrocarbons	GRO	1400	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/2/2001	PW24	T	Gasoline Range Hydrocarbons	GRO	1400	1300
LP991	Arctic Cooperage	North of Ship Creek	11/18/1997	TR6	T	Gasoline Range Hydrocarbons	GRO	1430	1300
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW19	T	Gasoline Range Hydrocarbons	GRO	1500	1300
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW19	T	Gasoline Range Hydrocarbons	GRO	1500	1300
LP019	Tesoro Terminal #1	Terminal Reserve	9/14/2000	PW23	T	Gasoline Range Hydrocarbons	GRO	1500	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/21/2002	MW5	T	Gasoline Range Hydrocarbons	GRO	1530	1300
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	MW5	T	Gasoline Range Hydrocarbons	GRO	1530	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/17/2002	PW24	T	Gasoline Range Hydrocarbons	GRO	1570	1300
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	PW24	T	Gasoline Range Hydrocarbons	GRO	1570	1300
LP025	Chevron	Terminal Reserve	5/3/2001	MW18	T	Gasoline Range Hydrocarbons	GRO	1590	1300
LP025	Chevron	Terminal Reserve	10/14/1994	MW18	T	Gasoline Range Hydrocarbons	GRO	1600	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PW6	T	Gasoline Range Hydrocarbons	GRO	1600	1300
LP016	Chevron USA Pipeline	Terminal Reserve	5/27/2003	MW6B	T	Gasoline Range Hydrocarbons	GRO	1800	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/18/2002	PW20	T	Gasoline Range Hydrocarbons	GRO	1810	1300
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	PW20	T	Gasoline Range Hydrocarbons	GRO	1810	1300
LP025	Chevron	Terminal Reserve	5/3/1999	MW14	T	Gasoline Range Hydrocarbons	GRO	1850	1300
LP025	Chevron	Terminal Reserve	5/3/1999	MW14	T	Gasoline Range Hydrocarbons	GRO	1850	1300
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	PW24	T	Gasoline Range Hydrocarbons	GRO	1850	1300
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	PW25	T	Gasoline Range Hydrocarbons	GRO	1850	1300
LP025	Chevron	Terminal Reserve	5/3/1999	MW4	T	Gasoline Range Hydrocarbons	GRO	1940	1300
LP025	Chevron	Terminal Reserve	5/3/1999	MW14	T	Gasoline Range Hydrocarbons	GRO	1970	1300
LP025	Chevron	Terminal Reserve	8/3/1999	MW14	T	Gasoline Range Hydrocarbons	GRO	1970	1300
LP003	Flint Hills	Terminal Reserve	10/17/2003	MW19	T	Gasoline Range Hydrocarbons	GRO	2000	1300

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	MW1	T	Gasoline Range Hydrocarbons	GRO	2000	1300
LP016	Chevron USA Pipeline	Terminal Reserve	5/23/2000	MW6B	T	Gasoline Range Hydrocarbons	GRO	2020	1300
LP019	Tesoro Terminal #1	Terminal Reserve	6/25/2003	PW19B	T	Gasoline Range Hydrocarbons	GRO	2050	1300
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW19	T	Gasoline Range Hydrocarbons	GRO	2100	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	MW5	T	Gasoline Range Hydrocarbons	GRO	2140	1300
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW6	T	Gasoline Range Hydrocarbons	GRO	2200	1300
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6	T	Gasoline Range Hydrocarbons	GRO	2200	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/18/2002	MW1	T	Gasoline Range Hydrocarbons	GRO	2230	1300
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	MW1	T	Gasoline Range Hydrocarbons	GRO	2230	1300
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	PW19B	T	Gasoline Range Hydrocarbons	GRO	2290	1300
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW1	T	Gasoline Range Hydrocarbons	GRO	2300	1300
LP016	Chevron USA Pipeline	Terminal Reserve	6/8/2004	MW6B	T	Gasoline Range Hydrocarbons	GRO	2300	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PW25	T	Gasoline Range Hydrocarbons	GRO	2300	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	MW1	T	Gasoline Range Hydrocarbons	GRO	2320	1300
LP025	Chevron	Terminal Reserve	4/20/1998	MW18	T	Gasoline Range Hydrocarbons	GRO	2380	1300
LP025	Chevron	Terminal Reserve	10/14/1994	MW14	T	Gasoline Range Hydrocarbons	GRO	2400	1300
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW1	T	Gasoline Range Hydrocarbons	GRO	2400	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	MW4	T	Gasoline Range Hydrocarbons	GRO	2400	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1993	MW10	T	Gasoline Range Hydrocarbons	GRO	2400	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	MW1	T	Gasoline Range Hydrocarbons	GRO	2400	1300
LP019	Tesoro Terminal #1	Terminal Reserve	7/24/1989	MW1	T	Gasoline Range Hydrocarbons	GRO	2400	1300
LP003	Flint Hills	Terminal Reserve	1/20/1992	MW19	T	Gasoline Range Hydrocarbons	GRO	2570	1300
LP003	Flint Hills	Terminal Reserve	1/20/1992	MW19W1	T	Gasoline Range Hydrocarbons	GRO	2570	1300
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	PW23	T	Gasoline Range Hydrocarbons	GRO	2590	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	MW4	T	Gasoline Range Hydrocarbons	GRO	2600	1300
LP019	Tesoro Terminal #1	Terminal Reserve	6/6/2001	PWPL	T	Gasoline Range Hydrocarbons	GRO	2620	1300
LP025	Chevron	Terminal Reserve	5/27/2003	MW3	T	Gasoline Range Hydrocarbons	GRO	2700	1300
LP025	Chevron	Terminal Reserve	5/27/2003	MW4	T	Gasoline Range Hydrocarbons	GRO	2700	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PW24	T	Gasoline Range Hydrocarbons	GRO	2700	1300
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	MW5	T	Gasoline Range Hydrocarbons	GRO	2700	1300
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW2	T	Gasoline Range Hydrocarbons	GRO	2800	1300
LP025	Chevron	Terminal Reserve	6/9/2004	MW3	T	Gasoline Range Hydrocarbons	GRO	2800	1300
LP022	Municipal Light & Power	South of Ship Creek	6/5/1991	2A3	T	Gasoline Range Hydrocarbons	GRO	2800	1300
LP019	Tesoro Terminal #1	Terminal Reserve	8/6/1998	MW1	T	Gasoline Range Hydrocarbons	GRO	2800	1300
LP019	Tesoro Terminal #1	Terminal Reserve	8/7/1998	PW12	T	Gasoline Range Hydrocarbons	GRO	2800	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	PW6	T	Gasoline Range Hydrocarbons	GRO	2810	1300
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	MW1	T	Gasoline Range Hydrocarbons	GRO	2820	1300
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW12	T	Gasoline Range Hydrocarbons	GRO	2900	1300
LP003	Flint Hills	Terminal Reserve	8/15/2002	MW19	T	Gasoline Range Hydrocarbons	GRO	3000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	11/2/1999	PW25	T	Gasoline Range Hydrocarbons	GRO	3000	1300
LP025	Chevron	Terminal Reserve	5/27/2003	MW14	T	Gasoline Range Hydrocarbons	GRO	3100	1300
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW18	T	Gasoline Range Hydrocarbons	GRO	3100	1300
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE1	T	Gasoline Range Hydrocarbons	GRO	3100	1300
LP137	Laidlaw Transit	North of Ship Creek	6/17/1994	MW3	T	Gasoline Range Hydrocarbons	GRO	3100	1300
LP025	Chevron	Terminal Reserve	4/24/1997	MW14	T	Gasoline Range Hydrocarbons	GRO	3240	1300

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP025	Chevron	Terminal Reserve	5/3/1999	MW18	T	Gasoline Range Hydrocarbons	GRO	3290	1300
LP025	Chevron	Terminal Reserve	8/3/1999	MW18	T	Gasoline Range Hydrocarbons	GRO	3290	1300
LP019	Tesoro Terminal #1	Terminal Reserve	9/14/2000	PW6	T	Gasoline Range Hydrocarbons	GRO	3330	1300
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW1A	T	Gasoline Range Hydrocarbons	GRO	3500	1300
LP025	Chevron	Terminal Reserve	6/8/2004	MW1	T	Gasoline Range Hydrocarbons	GRO	3500	1300
LP022	Municipal Light & Power	South of Ship Creek	6/23/1992	2A4	T	Gasoline Range Hydrocarbons	GRO	3500	1300
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	MW5	T	Gasoline Range Hydrocarbons	GRO	3570	1300
LP022	Municipal Light & Power	South of Ship Creek	6/12/1991	2A1	T	Gasoline Range Hydrocarbons	GRO	3600	1300
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	MW4	T	Gasoline Range Hydrocarbons	GRO	3600	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1993	NS1	T	Gasoline Range Hydrocarbons	GRO	3600	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	PW19B	T	Gasoline Range Hydrocarbons	GRO	3630	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/2/2001	PW23	T	Gasoline Range Hydrocarbons	GRO	3660	1300
LP019	Tesoro Terminal #1	Terminal Reserve	8/6/1998	MW1	T	Gasoline Range Hydrocarbons	GRO	3700	1300
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	MW5	T	Gasoline Range Hydrocarbons	GRO	3700	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PWPL	T	Gasoline Range Hydrocarbons	GRO	3700	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2002	PWPL	T	Gasoline Range Hydrocarbons	GRO	3700	1300
LP025	Chevron	Terminal Reserve	4/20/1998	MW16	T	Gasoline Range Hydrocarbons	GRO	3790	1300
LP025	Chevron	Terminal Reserve	10/26/1993	MW14	T	Gasoline Range Hydrocarbons	GRO	3900	1300
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	MW5	T	Gasoline Range Hydrocarbons	GRO	3970	1300
LP019	Tesoro Terminal #1	Terminal Reserve	6/25/2003	MW4	T	Gasoline Range Hydrocarbons	GRO	3980	1300
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	PW6	T	Gasoline Range Hydrocarbons	GRO	4100	1300
LP025	Chevron	Terminal Reserve	9/30/2002	MW16	T	Gasoline Range Hydrocarbons	GRO	4110	1300
LP991	Arctic Cooperage	North of Ship Creek	8/27/1997	CHSB6	T	Gasoline Range Hydrocarbons	GRO	4200	1300
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	MW4	T	Gasoline Range Hydrocarbons	GRO	4330	1300
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW12	T	Gasoline Range Hydrocarbons	GRO	4400	1300
LP003	Flint Hills	Terminal Reserve	12/19/1989	MW12	T	Gasoline Range Hydrocarbons	GRO	4400	1300
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW12	T	Gasoline Range Hydrocarbons	GRO	4400	1300
LP025	Chevron	Terminal Reserve	5/3/2001	MW1	T	Gasoline Range Hydrocarbons	GRO	4410	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	MW4	T	Gasoline Range Hydrocarbons	GRO	4420	1300
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW8A	T	Gasoline Range Hydrocarbons	GRO	4500	1300
LP019	Tesoro Terminal #1	Terminal Reserve	8/7/1998	PW13	T	Gasoline Range Hydrocarbons	GRO	4500	1300
LP025	Chevron	Terminal Reserve	5/3/2001	MW14	T	Gasoline Range Hydrocarbons	GRO	4620	1300
LP025	Chevron	Terminal Reserve	6/8/2004	MW14	T	Gasoline Range Hydrocarbons	GRO	4700	1300
LP019	Tesoro Terminal #1	Terminal Reserve	6/25/2003	PW20	T	Gasoline Range Hydrocarbons	GRO	4730	1300
LP019	Tesoro Terminal #1	Terminal Reserve	6/25/2003	PW23	T	Gasoline Range Hydrocarbons	GRO	4750	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	MW4	T	Gasoline Range Hydrocarbons	GRO	4780	1300
LP134	HW Alaska LLC	North of Ship Creek	4/18/1997	MW1	T	Gasoline Range Hydrocarbons	GRO	4800	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/18/2002	MW4	T	Gasoline Range Hydrocarbons	GRO	4820	1300
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	MW4	T	Gasoline Range Hydrocarbons	GRO	4820	1300
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	PW24	T	Gasoline Range Hydrocarbons	GRO	4910	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	MW4	T	Gasoline Range Hydrocarbons	GRO	5000	1300
LP003	Flint Hills	Terminal Reserve	4/24/1994	MW12	T	Gasoline Range Hydrocarbons	GRO	5030	1300
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW12	T	Gasoline Range Hydrocarbons	GRO	5030	1300
LP025	Chevron	Terminal Reserve	5/27/2003	MW16	T	Gasoline Range Hydrocarbons	GRO	5200	1300
LP022	Municipal Light & Power	South of Ship Creek	6/23/1992	2A1	T	Gasoline Range Hydrocarbons	GRO	5300	1300

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs)
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	PW21	T	Gasoline Range Hydrocarbons	GRO	5380	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/25/1999	PW24	T	Gasoline Range Hydrocarbons	GRO	5500	1300
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	MW4	T	Gasoline Range Hydrocarbons	GRO	5530	1300
LP019	Tesoro Terminal #1	Terminal Reserve	6/5/2001	PW20	T	Gasoline Range Hydrocarbons	GRO	5580	1300
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	PW21	T	Gasoline Range Hydrocarbons	GRO	5880	1300
LP003	Flint Hills	Terminal Reserve	1/28/1998	MW10	T	Gasoline Range Hydrocarbons	GRO	5900	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	MW4	T	Gasoline Range Hydrocarbons	GRO	5900	1300
LP025	Chevron	Terminal Reserve	9/18/1998	MW14	T	Gasoline Range Hydrocarbons	GRO	5920	1300
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW11	T	Gasoline Range Hydrocarbons	GRO	5970	1300
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW5A	T	Gasoline Range Hydrocarbons	GRO	6100	1300
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	MW1	T	Gasoline Range Hydrocarbons	GRO	6100	1300
LP019	Tesoro Terminal #1	Terminal Reserve	8/6/1998	PW1	T	Gasoline Range Hydrocarbons	GRO	6300	1300
LP019	Tesoro Terminal #1	Terminal Reserve	8/11/1998	MW4	T	Gasoline Range Hydrocarbons	GRO	6400	1300
LP019	Tesoro Terminal #1	Terminal Reserve	11/2/1999	PW19B	T	Gasoline Range Hydrocarbons	GRO	6700	1300
LP025	Chevron	Terminal Reserve	5/23/2000	MW14	T	Gasoline Range Hydrocarbons	GRO	6860	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/2/2001	PW20	T	Gasoline Range Hydrocarbons	GRO	6970	1300
LP022	Municipal Light & Power	South of Ship Creek	3/31/1992	2A1	T	Gasoline Range Hydrocarbons	GRO	7500	1300
LP019	Tesoro Terminal #1	Terminal Reserve	9/30/2002	MW13A	T	Gasoline Range Hydrocarbons	GRO	7690	1300
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE5	T	Gasoline Range Hydrocarbons	GRO	7700	1300
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW1A	T	Gasoline Range Hydrocarbons	GRO	8100	1300
LP003	Flint Hills	Terminal Reserve	10/20/2003	MW5	T	Gasoline Range Hydrocarbons	GRO	8200	1300
LP019	Tesoro Terminal #1	Terminal Reserve	8/7/1998	PW3	T	Gasoline Range Hydrocarbons	GRO	8400	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	PWPL	T	Gasoline Range Hydrocarbons	GRO	9050	1300
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW5A	T	Gasoline Range Hydrocarbons	GRO	9100	1300
LP025	Chevron	Terminal Reserve	5/23/2000	MW16	T	Gasoline Range Hydrocarbons	GRO	9170	1300
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW5	T	Gasoline Range Hydrocarbons	GRO	9600	1300
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW16	T	Gasoline Range Hydrocarbons	GRO	9700	1300
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW19	T	Gasoline Range Hydrocarbons	GRO	9700	1300
LP019	Tesoro Terminal #1	Terminal Reserve	9/14/2000	PW19B	T	Gasoline Range Hydrocarbons	GRO	9990	1300
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	MW4	T	Gasoline Range Hydrocarbons	GRO	10200	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/3/2001	MW1	T	Gasoline Range Hydrocarbons	GRO	10300	1300
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	PW20	T	Gasoline Range Hydrocarbons	GRO	10800	1300
LP025	Chevron	Terminal Reserve	6/8/2004	MW16	T	Gasoline Range Hydrocarbons	GRO	11000	1300
LP003	Flint Hills	Terminal Reserve	8/19/2002	MW5	T	Gasoline Range Hydrocarbons	GRO	11000	1300
LP003	Flint Hills	Terminal Reserve	4/30/2004	MW5	T	Gasoline Range Hydrocarbons	GRO	11100	1300
LP025	Chevron	Terminal Reserve	4/24/1997	MW16	T	Gasoline Range Hydrocarbons	GRO	11500	1300
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW4A	T	Gasoline Range Hydrocarbons	GRO	12000	1300
LP022	Municipal Light & Power	South of Ship Creek	3/31/1992	2A4	T	Gasoline Range Hydrocarbons	GRO	12000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	NS1	T	Gasoline Range Hydrocarbons	GRO	12000	1300
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW5A	T	Gasoline Range Hydrocarbons	GRO	13000	1300
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR3	T	Gasoline Range Hydrocarbons	GRO	13000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	PWPL	T	Gasoline Range Hydrocarbons	GRO	13000	1300
LP991	Arctic Cooperage	North of Ship Creek	3/5/1998	CHMW5A	T	Gasoline Range Hydrocarbons	GRO	14000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	8/6/1998	PW6	T	Gasoline Range Hydrocarbons	GRO	14000	1300
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW7	T	Gasoline Range Hydrocarbons	GRO	15000	1300

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP019	Tesoro Terminal #1	Terminal Reserve	9/18/1998	MW13A	T	Gasoline Range Hydrocarbons	GRO	15900	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1987	SS2	T	Gasoline Range Hydrocarbons	GRO	16000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	SS2	T	Gasoline Range Hydrocarbons	GRO	16000	1300
LP991	Arctic Cooperage	North of Ship Creek	3/5/1998	CHMW1A	T	Gasoline Range Hydrocarbons	GRO	17000	1300
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW5	T	Gasoline Range Hydrocarbons	GRO	17000	1300
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW5A	T	Gasoline Range Hydrocarbons	GRO	17000	1300
LP134	HW Alaska LLC	North of Ship Creek	10/5/1993	MW2	T	Gasoline Range Hydrocarbons	GRO	17000	1300
LP025	Chevron	Terminal Reserve	5/3/1999	MW16	T	Gasoline Range Hydrocarbons	GRO	17200	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/27/2003	MW13A	T	Gasoline Range Hydrocarbons	GRO	18000	1300
LP025	Chevron	Terminal Reserve	5/3/1999	MW16	T	Gasoline Range Hydrocarbons	GRO	18800	1300
LP991	Arctic Cooperage	North of Ship Creek	8/5/1997	CHHP1	T	Gasoline Range Hydrocarbons	GRO	19000	1300
LP991	Arctic Cooperage	North of Ship Creek	3/5/1998	CHMW2	T	Gasoline Range Hydrocarbons	GRO	19000	1300
LP991	Arctic Cooperage	North of Ship Creek	8/8/1997	CHSB8	T	Gasoline Range Hydrocarbons	GRO	19000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	6/8/2004	MW13A	T	Gasoline Range Hydrocarbons	GRO	19000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	MW5	T	Gasoline Range Hydrocarbons	GRO	19000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	8/10/1998	PW19B	T	Gasoline Range Hydrocarbons	GRO	20000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/3/2001	MW13A	T	Gasoline Range Hydrocarbons	GRO	20200	1300
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	MW5	T	Gasoline Range Hydrocarbons	GRO	21000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	9/13/2000	PWPL	T	Gasoline Range Hydrocarbons	GRO	21500	1300
LP025	Chevron	Terminal Reserve	5/27/2003	MW1	T	Gasoline Range Hydrocarbons	GRO	22000	1300
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE2	T	Gasoline Range Hydrocarbons	GRO	22000	1300
LP022	Municipal Light & Power	South of Ship Creek	6/6/1991	2A4	T	Gasoline Range Hydrocarbons	GRO	22000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/3/1998	MW13A	T	Gasoline Range Hydrocarbons	GRO	22200	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/3/1999	MW13A	T	Gasoline Range Hydrocarbons	GRO	22200	1300
LP019	Tesoro Terminal #1	Terminal Reserve	4/24/1997	MW13A	T	Gasoline Range Hydrocarbons	GRO	22600	1300
LP991	Arctic Cooperage	North of Ship Creek	8/26/1997	CHMW2	T	Gasoline Range Hydrocarbons	GRO	23000	1300
LP991	Arctic Cooperage	North of Ship Creek	8/26/1997	CHMW2	T	Gasoline Range Hydrocarbons	GRO	23000	1300
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE2	T	Gasoline Range Hydrocarbons	GRO	23000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/14/1994	MW13A	T	Gasoline Range Hydrocarbons	GRO	23000	1300
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW2	T	Gasoline Range Hydrocarbons	GRO	24000	1300
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW1A	T	Gasoline Range Hydrocarbons	GRO	25000	1300
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW2	T	Gasoline Range Hydrocarbons	GRO	25000	1300
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW1	T	Gasoline Range Hydrocarbons	GRO	25000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	4/20/1998	MW13A	T	Gasoline Range Hydrocarbons	GRO	25300	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/23/2000	MW13A	T	Gasoline Range Hydrocarbons	GRO	25900	1300
LP991	Arctic Cooperage	North of Ship Creek	12/24/1997	CHMW1	T	Gasoline Range Hydrocarbons	GRO	26000	1300
LP991	Arctic Cooperage	North of Ship Creek	12/24/1997	CHMW1A	T	Gasoline Range Hydrocarbons	GRO	26000	1300
LP003	Flint Hills	Terminal Reserve	4/24/1994	MW5	T	Gasoline Range Hydrocarbons	GRO	26000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/18/2002	PW19B	T	Gasoline Range Hydrocarbons	GRO	26600	1300
LP019	Tesoro Terminal #1	Terminal Reserve	6/4/2002	PW19B	T	Gasoline Range Hydrocarbons	GRO	26600	1300
LP019	Tesoro Terminal #1	Terminal Reserve	11/6/2003	PW19B	T	Gasoline Range Hydrocarbons	GRO	26800	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/25/2000	PW20	T	Gasoline Range Hydrocarbons	GRO	27000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PW20	T	Gasoline Range Hydrocarbons	GRO	27000	1300
LP025	Chevron	Terminal Reserve	10/14/1994	MW16	T	Gasoline Range Hydrocarbons	GRO	28000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/23/2000	MW13A	T	Gasoline Range Hydrocarbons	GRO	29200	1300

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP003	Flint Hills	Terminal Reserve	3/1/1994	MW5	T	Gasoline Range Hydrocarbons	GRO	30000	1300
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW5	T	Gasoline Range Hydrocarbons	GRO	30000	1300
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW5	T	Gasoline Range Hydrocarbons	GRO	30000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	11/4/1989	MW1	T	Gasoline Range Hydrocarbons	GRO	30000	1300
LP003	Flint Hills	Terminal Reserve	11/25/1996	MW5	T	Gasoline Range Hydrocarbons	GRO	31000	1300
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW2	T	Gasoline Range Hydrocarbons	GRO	32000	1300
LP003	Flint Hills	Terminal Reserve	12/23/1997	MW5	T	Gasoline Range Hydrocarbons	GRO	34000	1300
LP025	Chevron	Terminal Reserve	5/3/1999	MW1	T	Gasoline Range Hydrocarbons	GRO	34500	1300
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	SS2	T	Gasoline Range Hydrocarbons	GRO	36000	1300
LP025	Chevron	Terminal Reserve	9/18/1998	MW16	T	Gasoline Range Hydrocarbons	GRO	40700	1300
LP003	Flint Hills	Terminal Reserve	8/27/1996	MW5	T	Gasoline Range Hydrocarbons	GRO	40800	1300
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	NS1	T	Gasoline Range Hydrocarbons	GRO	41000	1300
LP016	Chevron USA Pipeline	Terminal Reserve	9/18/1998	MW6B	T	Gasoline Range Hydrocarbons	GRO	42600	1300
LP003	Flint Hills	Terminal Reserve	4/12/1994	MW13A	T	Gasoline Range Hydrocarbons	GRO	45500	1300
LP134	HW Alaska LLC	North of Ship Creek	5/5/1995	MW1	T	Gasoline Range Hydrocarbons	GRO	49900	1300
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6A	T	Gasoline Range Hydrocarbons	GRO	51000	1300
LP003	Flint Hills	Terminal Reserve	1/28/1998	MW6	T	Gasoline Range Hydrocarbons	GRO	61000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1999	PW20	T	Gasoline Range Hydrocarbons	GRO	69000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	PWPL	T	Gasoline Range Hydrocarbons	GRO	84000	1300
LP016	Chevron USA Pipeline	Terminal Reserve	9/30/2002	MW6B	T	Gasoline Range Hydrocarbons	GRO	88800	1300
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	PWPL	T	Gasoline Range Hydrocarbons	GRO	91000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	PWPL	T	Gasoline Range Hydrocarbons	GRO	97000	1300
LP003	Flint Hills	Terminal Reserve	1/28/1998	MW6	T	Gasoline Range Hydrocarbons	GRO	98000	1300
LP991	Arctic Cooperage	North of Ship Creek	9/29/2000	CHMW2	T	Gasoline Range Hydrocarbons	GRO	100000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1993	PWPL	T	Gasoline Range Hydrocarbons	GRO	120000	1300
LP134	HW Alaska LLC	North of Ship Creek	10/5/1993	MW1	T	Gasoline Range Hydrocarbons	GRO	140000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	PW7	T	Gasoline Range Hydrocarbons	GRO	210000	1300
LP991	Arctic Cooperage	North of Ship Creek	2/19/2003	CHMW3	T	Gasoline Range Hydrocarbons	GRO	220000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	5/3/1999	MW13A	T	Gasoline Range Hydrocarbons	GRO	222000	1300
LP991	Arctic Cooperage	North of Ship Creek	2/19/2003	CHMW1A	T	Gasoline Range Hydrocarbons	GRO	1100000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/8/1997	TPGW3	T	Gasoline Range Hydrocarbons	GRO	2000000	1300
LP991	Arctic Cooperage	North of Ship Creek	2/19/2003	CHMW5A	T	Gasoline Range Hydrocarbons	GRO	2400000	1300
LP991	Arctic Cooperage	North of Ship Creek	2/19/2003	CHMW3	T	Gasoline Range Hydrocarbons	GRO	2400000	1300
LP019	Tesoro Terminal #1	Terminal Reserve	10/8/1997	TPGW1	T	Gasoline Range Hydrocarbons	GRO	170000000	1300
LP991	Arctic Cooperage	North of Ship Creek	8/18/1999	CHMW3	D	Iron	7439-89-6	17800	11000
LP120	KAPP	North of Ship Creek	1/1/1998	145F	T	Iron	7439-89-6	19600	11000
LP120	KAPP	North of Ship Creek	10/8/1998	145F	T	Iron	7439-89-6	19600	11000
LP120	KAPP	North of Ship Creek	1/1/1998	145N	T	Iron	7439-89-6	25300	11000
LP120	KAPP	North of Ship Creek	10/8/1998	145N	T	Iron	7439-89-6	25300	11000
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE4	T	Iron	7439-89-6	52000	11000
LP991	Arctic Cooperage	North of Ship Creek	8/18/1999	CHMW3	T	Iron	7439-89-6	58800	11000
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE1	T	Iron	7439-89-6	68600	11000
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE5	T	Iron	7439-89-6	136000	11000
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE2	T	Iron	7439-89-6	151000	11000
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE3	T	Iron	7439-89-6	154000	11000

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP120	KAPP	North of Ship Creek	1/1/1998	145U	T	Iron	7439-89-6	328000	11000
LP120	KAPP	North of Ship Creek	10/8/1998	145U	T	Iron	7439-89-6	328000	11000
LP065	Princess Tours	North of Ship Creek	5/25/1994	MW3	T	Lead	7439-92-1	17	15
LP065	Princess Tours	North of Ship Creek	5/25/1994	5MW	T	Lead	7439-92-1	17	15
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE1	T	Lead	7439-92-1	25	15
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6A	T	Lead	7439-92-1	26	15
LP024	Prescott Equipment	North of Ship Creek	8/26/1999	B3	T	Lead	7439-92-1	28	15
LP024	Prescott Equipment	North of Ship Creek	9/1/1999	B3	T	Lead	7439-92-1	28	15
LP024	Prescott Equipment	North of Ship Creek	8/26/1998	B3	T	Lead	7439-92-1	30	15
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE4	T	Lead	7439-92-1	33	15
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6A	T	Lead	7439-92-1	39	15
LP024	Prescott Equipment	North of Ship Creek	9/1/1998	MW3	T	Lead	7439-92-1	57.6	15
LP024	Prescott Equipment	North of Ship Creek	8/14/1998	MW3	T	Lead	7439-92-1	57.6	15
LP024	Prescott Equipment	North of Ship Creek	8/14/1998	MW3	T	Lead	7439-92-1	60	15
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE3	T	Lead	7439-92-1	61	15
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE5	T	Lead	7439-92-1	68	15
LP024	Prescott Equipment	North of Ship Creek	9/1/1998	MW3	T	Lead	7439-92-1	73.8	15
LP024	Prescott Equipment	North of Ship Creek	8/14/1998	MW3	T	Lead	7439-92-1	73.8	15
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6A	T	Lead	7439-92-1	76	15
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE2	T	Lead	7439-92-1	77	15
RY065	Railyard	North of Ship Creek	6/5/1992	MW2	T	Lead	7439-92-1	110	15
LP065	Princess Tours	North of Ship Creek	6/5/1992	4MW	T	Lead	7439-92-1	120	15
LP120	KAPP	North of Ship Creek	1/1/1998	145U	T	Lead	7439-92-1	144	15
LP120	KAPP	North of Ship Creek	10/8/1998	145U	T	Lead	7439-92-1	144	15
LP127	Post Road Company - Tenancy	North of Ship Creek	8/31/1999	B1	T	Lead	7439-92-1	202	15
LP065	Princess Tours	North of Ship Creek	6/5/1992	MW1	T	Lead	7439-92-1	230	15
LP065	Princess Tours	North of Ship Creek	6/5/1992	MW3	T	Lead	7439-92-1	330	15
LP127	Post Road Company - Tenancy	North of Ship Creek	8/31/1999	B2	T	Lead	7439-92-1	346	15
LP127	Post Road Company - Tenancy	North of Ship Creek	8/31/1999	B3	T	Lead	7439-92-1	357	15
RY065	Railyard	North of Ship Creek	2/7/2001	7MW	T	Lead	7439-92-1	694	15
RY065	Railyard	North of Ship Creek	2/7/2001	6MW	T	Lead	7439-92-1	718	15
RY065	Railyard	North of Ship Creek	2/7/2001	9MW	T	Lead	7439-92-1	762	15
RY065	Railyard	North of Ship Creek	2/7/2001	8MW	T	Lead	7439-92-1	1260	15
RY065	Railyard	North of Ship Creek	2/7/2001	7MW	T	Lead	7439-92-1	1270	15
LP991	Arctic Cooperage	North of Ship Creek	8/5/1997	CHHP1	T	Lead	7439-92-1	1300	15
RY065	Railyard	North of Ship Creek	2/7/2001	10MW	T	Lead	7439-92-1	1930	15
LP991	Arctic Cooperage	North of Ship Creek	8/5/1997	CHHP1	D	Lead	7439-92-1	4400	15
LP024	Prescott Equipment	North of Ship Creek	9/18/2000	B3	T	Lead	7439-92-1	6100	15
LP991	Arctic Cooperage	North of Ship Creek	11/7/1997	CHMW5	T	Lead	7439-92-1	170000	15
LP022	Municipal Light & Power	South of Ship Creek	5/8/1989	3A1	T	m,p-Xylene	136777-61-2	10300	10000
LP022	Municipal Light & Power	South of Ship Creek	4/24/1989	2A1	T	m,p-Xylene	136777-61-2	11300	10000
LP022	Municipal Light & Power	South of Ship Creek	4/24/1989	2A4	T	m,p-Xylene	136777-61-2	14600	10000
LP022	Municipal Light & Power	South of Ship Creek	5/8/1989	2A1	T	m,p-Xylene	136777-61-2	22400	10000
LP022	Municipal Light & Power	South of Ship Creek	5/3/1989	2A6	T	m,p-Xylene	136777-61-2	124000	10000
LP022	Municipal Light & Power	South of Ship Creek	4/13/1989	A1	T	m,p-Xylene	136777-61-2	129000	10000

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP991	Arctic Cooperage	North of Ship Creek	7/18/1996	MW3	D	Manganese	7439-96-5	895	880
LP991	Arctic Cooperage	North of Ship Creek	6/4/1996	MW3	T	Manganese	7439-96-5	930	880
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE1	T	Manganese	7439-96-5	1090	880
LP134	HW Alaska LLC	North of Ship Creek	3/27/1998	MW1	T	Manganese	7439-96-5	1870	880
LP137	Laidlaw Transit	North of Ship Creek	7/18/1996	MW2	D	Manganese	7439-96-5	2180	880
LP137	Laidlaw Transit	North of Ship Creek	7/18/1996	MW2	D	Manganese	7439-96-5	2250	880
LP137	Laidlaw Transit	North of Ship Creek	6/4/1996	MW2	T	Manganese	7439-96-5	2270	880
LP120	KAPP	North of Ship Creek	1/1/1998	145N	T	Manganese	7439-96-5	2450	880
LP120	KAPP	North of Ship Creek	10/8/1998	145N	T	Manganese	7439-96-5	2450	880
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE3	D	Manganese	7439-96-5	2540	880
LP991	Arctic Cooperage	North of Ship Creek	8/18/1999	CHMW3	D	Manganese	7439-96-5	2860	880
LP991	Arctic Cooperage	North of Ship Creek	8/18/1999	CHMW3	T	Manganese	7439-96-5	2950	880
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE5	D	Manganese	7439-96-5	3610	880
LP120	KAPP	North of Ship Creek	1/1/1998	145F	T	Manganese	7439-96-5	3920	880
LP120	KAPP	North of Ship Creek	10/8/1998	145F	T	Manganese	7439-96-5	3920	880
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE3	T	Manganese	7439-96-5	3980	880
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE2	D	Manganese	7439-96-5	5940	880
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE5	T	Manganese	7439-96-5	8220	880
LP120	KAPP	North of Ship Creek	1/1/1998	145U	T	Manganese	7439-96-5	8330	880
LP120	KAPP	North of Ship Creek	10/8/1998	145U	T	Manganese	7439-96-5	8330	880
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE2	T	Manganese	7439-96-5	8740	880
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE4	D	Manganese	7439-96-5	11200	880
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE4	T	Manganese	7439-96-5	11600	880
LP127	Post Road Company - Tenancy	North of Ship Creek	8/31/1999	B3	T	Mercury	7439-97-6	2.51	2
LP127	Post Road Company - Tenancy	North of Ship Creek	8/31/1999	B2	T	Mercury	7439-97-6	8.95	2
RY065	Railyard	North of Ship Creek	2/7/2001	7MW	T	Mercury	7439-97-6	12.9	2
RY065	Railyard	North of Ship Creek	2/7/2001	6MW	T	Mercury	7439-97-6	13.4	2
RY065	Railyard	North of Ship Creek	2/7/2001	7MW	T	Mercury	7439-97-6	15.5	2
RY065	Railyard	North of Ship Creek	2/7/2001	9MW	T	Mercury	7439-97-6	21.5	2
RY065	Railyard	North of Ship Creek	2/7/2001	10MW	T	Mercury	7439-97-6	27.8	2
RY065	Railyard	North of Ship Creek	2/7/2001	8MW	T	Mercury	7439-97-6	43.4	2
LP024	Prescott Equipment	North of Ship Creek	9/18/2000	B3	T	Mercury	7439-97-6	68.9	2
LP024	Prescott Equipment	North of Ship Creek	9/18/2000	B3	T	Mercury	7439-97-6	70	2
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW2	T	Methylene chloride	75-09-2	5.7	5
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW22	T	Methylene chloride	75-09-2	6	5
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW5	T	Methylene chloride	75-09-2	7.6	5
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW5A	T	Methylene chloride	75-09-2	7.6	5
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW24	T	Methylene chloride	75-09-2	38	5
LP991	Arctic Cooperage	North of Ship Creek	9/29/2000	CHMW2	T	Methylene chloride	75-09-2	80	5
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW2	T	Naphthalene	91-20-3	810	700
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW2	T	Naphthalene	91-20-3	930	700
LP991	Arctic Cooperage	North of Ship Creek	12/24/1997	CHMW1	T	Naphthalene	91-20-3	1700	700
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW1A	T	Naphthalene	91-20-3	1700	700
LP991	Arctic Cooperage	North of Ship Creek	8/5/1997	CHHP1	T	Naphthalene	91-20-3	4300	700
LP991	Arctic Cooperage	North of Ship Creek	8/5/1997	CHSB8	T	Naphthalene	91-20-3	4300	700

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW26	T	Naphthalene	91-20-3	4800	700
LP022	Municipal Light & Power	South of Ship Creek	9/12/2002	B1A	T	Nickel	7440-02-0	2.81	0.1
LP022	Municipal Light & Power	South of Ship Creek	9/12/2002	B3C	T	Nickel	7440-02-0	4.23	0.1
LP022	Municipal Light & Power	South of Ship Creek	9/12/2002	B2A	T	Nickel	7440-02-0	5.54	0.1
LP120	KAPP	North of Ship Creek	1/1/1998	145N	T	Nickel	7440-02-0	15	0.1
LP120	KAPP	North of Ship Creek	10/8/1998	145N	T	Nickel	7440-02-0	15	0.1
LP991	Arctic Cooperage	North of Ship Creek	8/18/1999	CHMW3	T	Nickel	7440-02-0	21	0.1
LP024	Prescott Equipment	North of Ship Creek	9/1/1998	B1	T	Nickel	7440-02-0	31.9	0.1
LP024	Prescott Equipment	North of Ship Creek	8/14/1998	B1	T	Nickel	7440-02-0	31.9	0.1
LP120	KAPP	North of Ship Creek	1/1/1998	145F	T	Nickel	7440-02-0	37	0.1
LP120	KAPP	North of Ship Creek	10/8/1998	145F	T	Nickel	7440-02-0	37	0.1
LP024	Prescott Equipment	North of Ship Creek	9/1/1998	MW2	T	Nickel	7440-02-0	78.9	0.1
LP024	Prescott Equipment	North of Ship Creek	8/14/1998	MW2	T	Nickel	7440-02-0	78.9	0.1
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE1	T	Nickel	7440-02-0	91	0.1
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE3	T	Nickel	7440-02-0	116	0.1
LP024	Prescott Equipment	North of Ship Creek	9/1/1998	MW3	T	Nickel	7440-02-0	164	0.1
LP024	Prescott Equipment	North of Ship Creek	8/14/1998	MW3	T	Nickel	7440-02-0	164	0.1
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE5	T	Nickel	7440-02-0	179	0.1
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE2	T	Nickel	7440-02-0	202	0.1
LP024	Prescott Equipment	North of Ship Creek	9/1/1998	MW3	T	Nickel	7440-02-0	225	0.1
LP024	Prescott Equipment	North of Ship Creek	8/14/1998	MW3	T	Nickel	7440-02-0	225	0.1
LP120	KAPP	North of Ship Creek	1/1/1998	145U	T	Nickel	7440-02-0	390	0.1
LP120	KAPP	North of Ship Creek	10/8/1998	145U	T	Nickel	7440-02-0	390	0.1
LP025	Chevron	Terminal Reserve	4/20/1998	MW17	T	Nickel	7440-02-0	635	0.1
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW5	T	n-Propylbenzene	103-65-1	310	240
LP022	Municipal Light & Power	South of Ship Creek	5/8/1989	2A1	T	o-Xylene	95-47-6	17600	10000
LP022	Municipal Light & Power	South of Ship Creek	4/13/1989	A1	T	o-Xylene	95-47-6	69200	10000
LP022	Municipal Light & Power	South of Ship Creek	5/3/1989	2A6	T	o-Xylene	95-47-6	188000	10000
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	MW1	T	Residual Range Organics	RRO	1150	1100
RY065	Railyard	North of Ship Creek	2/7/2001	9MW	T	Residual Range Organics	RRO	1190	1100
LP003	Flint Hills	Terminal Reserve	8/16/2002	MW12	T	Residual Range Organics	RRO	1200	1100
LP003	Flint Hills	Terminal Reserve	8/19/2002	12MW	T	Residual Range Organics	RRO	1200	1100
LP003	Flint Hills	Terminal Reserve	4/29/2004	MW9	T	Residual Range Organics	RRO	1360	1100
LP991	Arctic Cooperage	North of Ship Creek	9/29/2000	CHMW3	T	Residual Range Organics	RRO	1400	1100
LP991	Arctic Cooperage	North of Ship Creek	2/19/2003	CHMW3	T	Residual Range Organics	RRO	1400	1100
LP003	Flint Hills	Terminal Reserve	10/20/2003	MW14	T	Residual Range Organics	RRO	1400	1100
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR1	T	Residual Range Organics	RRO	1430	1100
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR1	T	Residual Range Organics	RRO	1430	1100
LP003	Flint Hills	Terminal Reserve	4/29/2004	MW4	T	Residual Range Organics	RRO	1440	1100
LP991	Arctic Cooperage	North of Ship Creek	2/19/2003	CHMW5A	T	Residual Range Organics	RRO	1700	1100
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR2	T	Residual Range Organics	RRO	1760	1100
LP003	Flint Hills	Terminal Reserve	8/19/2004	MW4	T	Residual Range Organics	RRO	1800	1100
LP003	Flint Hills	Terminal Reserve	8/19/2002	MW4	T	Residual Range Organics	RRO	1800	1100
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE3	T	Residual Range Organics	RRO	1900	1100
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR2	T	Residual Range Organics	RRO	1970	1100

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP003	Flint Hills	Terminal Reserve	10/12/1995	MW1	T	Residual Range Organics	RRO	2000	1100
LP137	Laidlaw Transit	North of Ship Creek	12/1/1998	CHMWE2	T	Residual Range Organics	RRO	2000	1100
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE4	T	Residual Range Organics	RRO	2000	1100
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	MW9	T	Residual Range Organics	RRO	2000	1100
LP003	Flint Hills	Terminal Reserve	4/30/2004	MW14	T	Residual Range Organics	RRO	2150	1100
LP991	Arctic Cooperage	North of Ship Creek	11/18/1997	TR7	T	Residual Range Organics	RRO	2160	1100
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE3	T	Residual Range Organics	RRO	3500	1100
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE4	T	Residual Range Organics	RRO	4100	1100
LP991	Arctic Cooperage	North of Ship Creek	8/18/1999	CHMW3	T	Residual Range Organics	RRO	5400	1100
LP127	Post Road Company - Tenancy	North of Ship Creek	8/31/1999	B3	T	Residual Range Organics	RRO	5660	1100
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR4	T	Residual Range Organics	RRO	5800	1100
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE5	T	Residual Range Organics	RRO	6600	1100
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR4	T	Residual Range Organics	RRO	11000	1100
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR4	T	Residual Range Organics	RRO	11000	1100
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE2	T	Residual Range Organics	RRO	11900	1100
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW1	T	Residual Range Organics	RRO	16000	1100
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW5	T	Residual Range Organics	RRO	21000	1100
LP991	Arctic Cooperage	North of Ship Creek	11/18/1997	TR6	T	Residual Range Organics	RRO	24000	1100
LP991	Arctic Cooperage	North of Ship Creek	12/24/1997	MW3	T	Residual Range Organics	RRO	74000	1100
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR1	T	Residual Range Organics	RRO	74000	1100
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE1	T	Residual Range Organics	RRO	93000	1100
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE2	T	Residual Range Organics	RRO	95000	1100
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE2	T	Residual Range Organics	RRO	160000	1100
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE5	T	Residual Range Organics	RRO	190000	1100
LP991	Arctic Cooperage	North of Ship Creek	9/29/2000	CHMW2	T	Residual Range Organics	RRO	260000	1100
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR3	T	Residual Range Organics	RRO	280000	1100
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR1	T	Residual Range Organics	RRO	660000	1100
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR1	T	Residual Range Organics	RRO	660000	1100
RY065	Railyard	North of Ship Creek	2/7/2001	10MW	T	Selenium	7782-49-2	57.2	50
LP127	Post Road Company - Tenancy	North of Ship Creek	8/31/1999	B1	T	Silver	7440-22-4	2.36	0.1
LP127	Post Road Company - Tenancy	North of Ship Creek	8/31/1999	B3	T	Silver	7440-22-4	3.42	0.1
LP120	KAPP	North of Ship Creek	1/1/1998	145U	T	Silver	7440-22-4	6	0.1
LP120	KAPP	North of Ship Creek	10/8/1998	145U	T	Silver	7440-22-4	6	0.1
LP127	Post Road Company - Tenancy	North of Ship Creek	8/31/1999	B2	T	Silver	7440-22-4	9.77	0.1
RY065	Railyard	North of Ship Creek	2/7/2001	7MW	T	Silver	7440-22-4	13.3	0.1
RY065	Railyard	North of Ship Creek	2/7/2001	9MW	T	Silver	7440-22-4	14.7	0.1
RY065	Railyard	North of Ship Creek	2/7/2001	7MW	T	Silver	7440-22-4	40.5	0.1
RY065	Railyard	North of Ship Creek	2/7/2001	8MW	T	Silver	7440-22-4	46.9	0.1
RY065	Railyard	North of Ship Creek	2/7/2001	6MW	T	Silver	7440-22-4	48.6	0.1
RY065	Railyard	North of Ship Creek	2/7/2001	10MW	T	Silver	7440-22-4	54.9	0.1
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW26	T	Silver	7440-22-4	100	0.1
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW1A	T	Styrene	100-42-5	650	100
LP137	Laidlaw Transit	North of Ship Creek	6/4/1998	EMMW1	T	Tetrachloroethene	127-18-4	5.4	5
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	MW1	T	Tetrachloroethene	127-18-4	8.8	5
LP137	Laidlaw Transit	North of Ship Creek	12/22/1997	EMMW1	T	Tetrachloroethene	127-18-4	8.8	5

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP137	Laidlaw Transit	North of Ship Creek	3/5/1998	EMMW1	T	Tetrachloroethene	127-18-4	9.1	5
LP137	Laidlaw Transit	North of Ship Creek	6/17/1994	MW1	T	Tetrachloroethene	127-18-4	12.1	5
LP022	Municipal Light & Power	South of Ship Creek	9/12/2002	B2A	T	Tetrachloroethene	127-18-4	14	5
LP085	CBS Equipment	North of Ship Creek	5/5/1995	MW5	T	Tetrachloroethene	127-18-4	23	5
LP085	CBS Equipment	North of Ship Creek	6/17/1995	MW5	T	Tetrachloroethene	127-18-4	23	5
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE1	T	Tetrachloroethene	127-18-4	30	5
LP137	Laidlaw Transit	North of Ship Creek	12/1/1998	CHMWE1	T	Tetrachloroethene	127-18-4	32	5
LP085	CBS Equipment	North of Ship Creek	4/30/1998	MW5	T	Tetrachloroethene	127-18-4	40	5
LP085	CBS Equipment	North of Ship Creek	7/9/1998	MW5	T	Tetrachloroethene	127-18-4	42	5
LP991	Arctic Cooperage	North of Ship Creek	8/18/1999	CHMW1	T	Tetrachloroethene	127-18-4	44	5
LP085	CBS Equipment	North of Ship Creek	4/18/1997	MW5	T	Tetrachloroethene	127-18-4	48	5
LP085	CBS Equipment	North of Ship Creek	4/30/1998	MW6	T	Tetrachloroethene	127-18-4	52	5
LP134	HW Alaska LLC	North of Ship Creek	4/30/1998	MW2	T	Tetrachloroethene	127-18-4	52	5
LP085	CBS Equipment	North of Ship Creek	7/9/1998	MW6	T	Tetrachloroethene	127-18-4	53	5
LP085	CBS Equipment	North of Ship Creek	5/5/1995	MW6	T	Tetrachloroethene	127-18-4	55	5
LP085	CBS Equipment	North of Ship Creek	6/17/1995	MW6	T	Tetrachloroethene	127-18-4	55	5
LP085	CBS Equipment	North of Ship Creek	4/18/1997	MW6	T	Tetrachloroethene	127-18-4	85	5
LP085	CBS Equipment	North of Ship Creek	7/9/1998	MW4	T	Tetrachloroethene	127-18-4	97	5
LP085	CBS Equipment	North of Ship Creek	5/5/1995	MW4	T	Tetrachloroethene	127-18-4	99	5
LP085	CBS Equipment	North of Ship Creek	6/17/1995	MW4	T	Tetrachloroethene	127-18-4	99	5
LP085	CBS Equipment	North of Ship Creek	4/18/1997	MW4	T	Tetrachloroethene	127-18-4	150	5
LP003	Flint Hills	Terminal Reserve	4/12/1994	MW13A	T	Toluene	108-88-3	1080	1000
LP003	Flint Hills	Terminal Reserve	4/30/2004	MW5	T	Toluene	108-88-3	1370	1000
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1987	SS2	T	Toluene	108-88-3	1400	1000
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	SS2	T	Toluene	108-88-3	1400	1000
LP134	HW Alaska LLC	North of Ship Creek	10/5/1993	MW2	T	Toluene	108-88-3	1700	1000
LP022	Municipal Light & Power	South of Ship Creek	5/22/1989	2A4	T	Toluene	108-88-3	1730	1000
LP022	Municipal Light & Power	South of Ship Creek	9/29/1989	2A3	T	Toluene	108-88-3	1750	1000
LP019	Tesoro Terminal #1	Terminal Reserve	5/13/1998	NS1	T	Toluene	108-88-3	1770	1000
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW6A	T	Toluene	108-88-3	1800	1000
LP991	Arctic Cooperage	North of Ship Creek	11/13/1997	TR3	T	Toluene	108-88-3	1900	1000
LP025	Chevron	Terminal Reserve	10/16/1989	MW1	T	Toluene	108-88-3	1920	1000
LP019	Tesoro Terminal #1	Terminal Reserve	10/16/1989	MW13A	T	Toluene	108-88-3	1960	1000
LP022	Municipal Light & Power	South of Ship Creek	4/24/1989	2A6	T	Toluene	108-88-3	2150	1000
LP022	Municipal Light & Power	South of Ship Creek	5/22/1989	2A3	T	Toluene	108-88-3	2260	1000
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE2	T	Toluene	108-88-3	2600	1000
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE2	T	Toluene	108-88-3	2700	1000
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	NS1	T	Toluene	108-88-3	2700	1000
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW2	T	Toluene	108-88-3	2800	1000
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW2	T	Toluene	108-88-3	2900	1000
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE2	T	Toluene	108-88-3	3200	1000
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW2	T	Toluene	108-88-3	3300	1000
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW5A	T	Toluene	108-88-3	3300	1000
LP003	Flint Hills	Terminal Reserve	3/1/1994	MW5	T	Toluene	108-88-3	3900	1000
LP003	Flint Hills	Terminal Reserve	4/1/1994	MW5	T	Toluene	108-88-3	3900	1000

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW5	T	Toluene	108-88-3	3900	1000
LP025	Chevron	Terminal Reserve	5/3/1999	MW1	T	Toluene	108-88-3	3910	1000
LP991	Arctic Cooperage	North of Ship Creek	9/29/2000	CHMW2	T	Toluene	108-88-3	4000	1000
LP003	Flint Hills	Terminal Reserve	10/26/1993	MW7	T	Toluene	108-88-3	4100	1000
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW2	T	Toluene	108-88-3	4200	1000
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW2	T	Toluene	108-88-3	4200	1000
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	SS2	T	Toluene	108-88-3	4300	1000
LP022	Municipal Light & Power	South of Ship Creek	5/22/1989	2A1	T	Toluene	108-88-3	4425	1000
LP991	Arctic Cooperage	North of Ship Creek	9/29/2000	CHMW2	T	Toluene	108-88-3	4600	1000
LP991	Arctic Cooperage	North of Ship Creek	8/26/1997	CHMW2	T	Toluene	108-88-3	4600	1000
LP022	Municipal Light & Power	South of Ship Creek	5/22/1989	A1	T	Toluene	108-88-3	4674	1000
LP022	Municipal Light & Power	South of Ship Creek	6/12/1991	2A1	T	Toluene	108-88-3	4700	1000
LP027	Chevron Former Asphalt	Terminal Reserve	10/16/1989	MW19	T	Toluene	108-88-3	4840	1000
LP027	Chevron Former Asphalt	Terminal Reserve	10/16/1998	MW19	T	Toluene	108-88-3	4840	1000
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW2	T	Toluene	108-88-3	4900	1000
LP022	Municipal Light & Power	South of Ship Creek	1/17/1990	2A1	T	Toluene	108-88-3	4980	1000
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	PWPL	T	Toluene	108-88-3	5100	1000
LP003	Flint Hills	Terminal Reserve	11/25/1996	MW5	T	Toluene	108-88-3	5230	1000
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW2	T	Toluene	108-88-3	5400	1000
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	PWPL	T	Toluene	108-88-3	5400	1000
LP003	Flint Hills	Terminal Reserve	4/24/1994	MW5	T	Toluene	108-88-3	5860	1000
LP003	Flint Hills	Terminal Reserve	8/27/1996	MW5	T	Toluene	108-88-3	6280	1000
LP134	HW Alaska LLC	North of Ship Creek	5/5/1995	MW1	T	Toluene	108-88-3	6700	1000
LP003	Flint Hills	Terminal Reserve	9/28/1989	MW5	T	Toluene	108-88-3	6880	1000
LP022	Municipal Light & Power	South of Ship Creek	9/29/1989	2A4	T	Toluene	108-88-3	7410	1000
LP022	Municipal Light & Power	South of Ship Creek	9/29/1989	2A1	T	Toluene	108-88-3	7420	1000
LP991	Arctic Cooperage	North of Ship Creek	11/3/1997	CHMW2	T	Toluene	108-88-3	7800	1000
LP022	Municipal Light & Power	South of Ship Creek	7/12/1989	2A4	T	Toluene	108-88-3	8210	1000
LP003	Flint Hills	Terminal Reserve	12/23/1997	MW5	T	Toluene	108-88-3	8280	1000
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	PWPL	T	Toluene	108-88-3	8800	1000
LP022	Municipal Light & Power	South of Ship Creek	4/24/1989	2A4	T	Toluene	108-88-3	9940	1000
LP022	Municipal Light & Power	South of Ship Creek	7/22/1989	2A1	T	Toluene	108-88-3	10500	1000
LP022	Municipal Light & Power	South of Ship Creek	4/24/1989	2A3	T	Toluene	108-88-3	10700	1000
LP022	Municipal Light & Power	South of Ship Creek	5/8/1989	2A3	T	Toluene	108-88-3	10700	1000
LP022	Municipal Light & Power	South of Ship Creek	5/8/1989	3A1	T	Toluene	108-88-3	14200	1000
LP003	Flint Hills	Terminal Reserve	12/19/1989	MW5	T	Toluene	108-88-3	14300	1000
LP003	Flint Hills	Terminal Reserve	6/20/1988	MW5	T	Toluene	108-88-3	16000	1000
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1993	PWPL	T	Toluene	108-88-3	18000	1000
LP003	Flint Hills	Terminal Reserve	3/21/1989	MW5	T	Toluene	108-88-3	18500	1000
LP022	Municipal Light & Power	South of Ship Creek	5/8/1989	A1	T	Toluene	108-88-3	18500	1000
LP003	Flint Hills	Terminal Reserve	12/23/1987	MW5	T	Toluene	108-88-3	18900	1000
LP003	Flint Hills	Terminal Reserve	6/19/1989	MW5	T	Toluene	108-88-3	23600	1000
LP003	Flint Hills	Terminal Reserve	1/28/1998	MW6	T	Toluene	108-88-3	25200	1000
LP003	Flint Hills	Terminal Reserve	1/28/1998	MW6	T	Toluene	108-88-3	29400	1000
LP134	HW Alaska LLC	North of Ship Creek	10/5/1993	MW1	T	Toluene	108-88-3	34000	1000

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs) ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	PW7	T	Toluene	108-88-3	34000	1000
LP022	Municipal Light & Power	South of Ship Creek	7/12/1989	A1	T	Toluene	108-88-3	38500	1000
LP022	Municipal Light & Power	South of Ship Creek	9/29/1989	A1	T	Toluene	108-88-3	47000	1000
LP022	Municipal Light & Power	South of Ship Creek	5/8/1989	2A1	T	Toluene	108-88-3	56100	1000
LP022	Municipal Light & Power	South of Ship Creek	4/24/1989	2A1	T	Toluene	108-88-3	59300	1000
LP022	Municipal Light & Power	South of Ship Creek	4/13/1989	A1	T	Toluene	108-88-3	99000	1000
LP991	Arctic Cooperage	North of Ship Creek	3/5/1998	CHMW2	T	Toluene	108-88-3	200000	1000
LP019	Tesoro Terminal #1	Terminal Reserve	10/8/1997	TPGW3	T	Toluene	108-88-3	220000	1000
LP019	Tesoro Terminal #1	Terminal Reserve	10/8/1997	TPGW1	T	Toluene	108-88-3	16000000	1000
LP085	CBS Equipment	North of Ship Creek	4/18/1997	MW4	T	Trichloroethene	79-01-6	5.2	5
LP085	CBS Equipment	North of Ship Creek	5/5/1995	MW5	T	Trichloroethene	79-01-6	5.3	5
LP085	CBS Equipment	North of Ship Creek	4/30/1998	MW5	T	Trichloroethene	79-01-6	5.3	5
LP085	CBS Equipment	North of Ship Creek	6/17/1995	MW5	T	Trichloroethene	79-01-6	5.3	5
LP065	Princess Tours	North of Ship Creek	6/5/1992	MW1	T	Trichloroethene	79-01-6	6	5
LP085	CBS Equipment	North of Ship Creek	7/9/1998	MW5	T	Trichloroethene	79-01-6	6.9	5
LP085	CBS Equipment	North of Ship Creek	4/30/1998	MW6	T	Trichloroethene	79-01-6	7.4	5
LP134	HW Alaska LLC	North of Ship Creek	4/30/1998	MW2	T	Trichloroethene	79-01-6	7.4	5
LP085	CBS Equipment	North of Ship Creek	7/9/1998	MW6	T	Trichloroethene	79-01-6	7.8	5
LP085	CBS Equipment	North of Ship Creek	4/18/1997	MW6	T	Trichloroethene	79-01-6	8.7	5
LP085	CBS Equipment	North of Ship Creek	5/5/1995	MW6	T	Trichloroethene	79-01-6	9.9	5
LP085	CBS Equipment	North of Ship Creek	6/17/1995	MW6	T	Trichloroethene	79-01-6	9.9	5
RY065	Railyard	North of Ship Creek	10/1/2001	U5MW02	T	Trichloroethene	79-01-6	11	5
RY065	Railyard	North of Ship Creek	10/1/2001	WL3	T	Trichloroethene	79-01-6	14	5
LP137	Laidlaw Transit	North of Ship Creek	12/1/1998	CHMWE3	T	Trichloroethene	79-01-6	15	5
RY065	Railyard	North of Ship Creek	10/1/2001	SP12	T	Trichloroethene	79-01-6	16	5
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE3	T	Trichloroethene	79-01-6	20	5
LP022	Municipal Light & Power	South of Ship Creek	9/12/2002	B2A	T	Trichloroethene	79-01-6	21.7	5
LP137	Laidlaw Transit	North of Ship Creek	12/1/1998	CHMWE2	T	Trichloroethene	79-01-6	30	5
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE5	T	Vanadium	7440-62-2	291	260
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE2	T	Vanadium	7440-62-2	344	260
LP120	KAPP	North of Ship Creek	1/1/1998	145U	T	Vanadium	7440-62-2	609	260
LP120	KAPP	North of Ship Creek	10/8/1998	145U	T	Vanadium	7440-62-2	609	260
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW5A	T	Vinyl chloride	75-01-4	2.6	2
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW4	T	Vinyl chloride	75-01-4	3.9	2
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE5	T	Vinyl chloride	75-01-4	6.4	2
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW2	T	Vinyl chloride	75-01-4	6.7	2
LP137	Laidlaw Transit	North of Ship Creek	12/1/1998	CHMWE5	T	Vinyl chloride	75-01-4	10	2
LP991	Arctic Cooperage	North of Ship Creek	3/5/1998	CHMW3	T	Vinyl chloride	75-01-4	12	2
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW3	T	Vinyl chloride	75-01-4	14	2
LP991	Arctic Cooperage	North of Ship Creek	6/4/1998	CHMW3	T	Vinyl chloride	75-01-4	14	2
LP137	Laidlaw Transit	North of Ship Creek	6/17/1994	MW3	T	Vinyl chloride	75-01-4	14	2
LP991	Arctic Cooperage	North of Ship Creek	8/18/1999	CHMW3	T	Vinyl chloride	75-01-4	16	2
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW3	T	Vinyl chloride	75-01-4	20	2
LP991	Arctic Cooperage	North of Ship Creek	11/4/1997	CHMW3	T	Vinyl chloride	75-01-4	21	2
LP991	Arctic Cooperage	North of Ship Creek	9/13/1998	CHMW3	T	Vinyl chloride	75-01-4	23	2

Table F-3 Summary of Detected Groundwater Concentrations Exceeding Screening Levels (MCLs)
ARRC Anchorage Terminal Reserve, Anchorage, AK

Lease Property	Name	Location	Sample Date	loc_name	total_or_dissolved	Analyte	Cas Number	Concentration (µg/L)	Screening Level (µg/L)
LP991	Arctic Cooperage	North of Ship Creek	9/28/2000	CHMW3	T	Vinyl chloride	75-01-4	24	2
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE3	T	Vinyl chloride	75-01-4	25	2
LP137	Laidlaw Transit	North of Ship Creek	12/7/1998	CHMWE3	T	Vinyl chloride	75-01-4	25	2
LP991	Arctic Cooperage	North of Ship Creek	12/22/1997	CHMW3	T	Vinyl chloride	75-01-4	27	2
LP027	Chevron Former Asphalt	Terminal Reserve	10/16/1989	MW19	T	Xylene, total	1330-20-7	10210	10000
LP027	Chevron Former Asphalt	Terminal Reserve	10/16/1998	MW19	T	Xylene, total	1330-20-7	10210	10000
LP019	Tesoro Terminal #1	Terminal Reserve	4/20/1998	MW13A	T	Xylene, total	1330-20-7	10300	10000
LP019	Tesoro Terminal #1	Terminal Reserve	5/26/2000	PW20	T	Xylene, total	1330-20-7	10380	10000
LP003	Flint Hills	Terminal Reserve	3/21/1989	MW5	T	Xylene, total	1330-20-7	12150	10000
LP022	Municipal Light & Power	South of Ship Creek	7/12/1989	A1	T	Xylene, total	1330-20-7	12320	10000
LP022	Municipal Light & Power	South of Ship Creek	9/29/1989	2A4	T	Xylene, total	1330-20-7	12810	10000
LP019	Tesoro Terminal #1	Terminal Reserve	8/12/1998	PW7	T	Xylene, total	1330-20-7	13000	10000
LP003	Flint Hills	Terminal Reserve	4/12/1994	MW13A	T	Xylene, total	1330-20-7	14800	10000
LP003	Flint Hills	Terminal Reserve	12/23/1987	MW5	T	Xylene, total	1330-20-7	15000	10000
LP003	Flint Hills	Terminal Reserve	6/19/1989	MW5	T	Xylene, total	1330-20-7	15820	10000
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1999	PW20	T	Xylene, total	1330-20-7	16000	10000
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	PWPL	T	Xylene, total	1330-20-7	16000	10000
LP022	Municipal Light & Power	South of Ship Creek	7/12/1989	2A4	T	Xylene, total	1330-20-7	16550	10000
LP022	Municipal Light & Power	South of Ship Creek	9/29/1989	A1	T	Xylene, total	1330-20-7	16860	10000
LP022	Municipal Light & Power	South of Ship Creek	4/24/1989	2A1	T	Xylene, total	1330-20-7	16940	10000
LP019	Tesoro Terminal #1	Terminal Reserve	11/1/1999	PWPL	T	Xylene, total	1330-20-7	17000	10000
LP022	Municipal Light & Power	South of Ship Creek	7/22/1989	2A1	T	Xylene, total	1330-20-7	17140	10000
LP003	Flint Hills	Terminal Reserve	1/28/1998	MW6	T	Xylene, total	1330-20-7	18300	10000
LP022	Municipal Light & Power	South of Ship Creek	6/6/1991	2A4	T	Xylene, total	1330-20-7	19000	10000
LP134	HW Alaska LLC	North of Ship Creek	5/5/1995	MW1	T	Xylene, total	1330-20-7	19100	10000
LP019	Tesoro Terminal #1	Terminal Reserve	10/26/1993	PWPL	T	Xylene, total	1330-20-7	21000	10000
LP022	Municipal Light & Power	South of Ship Creek	4/24/1989	2A4	T	Xylene, total	1330-20-7	22350	10000
LP134	HW Alaska LLC	North of Ship Creek	10/5/1993	MW1	T	Xylene, total	1330-20-7	34000	10000
LP019	Tesoro Terminal #1	Terminal Reserve	10/8/1997	TPGW3	T	Xylene, total	1330-20-7	420000	10000
LP019	Tesoro Terminal #1	Terminal Reserve	10/8/1997	TPGW1	T	Xylene, total	1330-20-7	14000000	10000
LP137	Laidlaw Transit	North of Ship Creek	8/18/1999	CHMWE5	T	Zinc	7440-66-6	11900	11000

Notes:
µg/L = micrograms per liter
T = total
D = Dissolved