Table 4-1
Sediment Sampling Station Locations

Station ID	Sample Type		Composite (yes/no)	Target Station Coordinates[1]		Actual Station Coordinates[1]	
	Grab	Core		Latitude	Longitude	Latitude	Longitude
RM12.1E							
DPSC-C086		X	--	45.526985	-122.666085	45.526958	-122.666145
DPSC-C087		X	--	45.526207	-122.665889	45.526228	-122.666013
DPSC-G086	X		Yes	45.526986	-122.666085	45.526958	-122.666145
DPSC-G087[2]	X		No	45.526207	-122.665889	Unsuccessful	
RM12.4W							
DPSC-C041[3]		X	--	45.522070	-122.669207	45.522070	-122.669207
DPSC-G088	X		Yes	45.520622	-122.669631	45.520627	-122.669655
RM12.5E							
DPSC-C089		X	--	45.520987	-122.666519	45.521022	-122.666600
DPSC-C090		X	--	45.517767	-122.667540	45.517881	-122.667794
DPSC-G089	X		Yes	45.520987	-122.666519	45.521022	-122.666600
DPSC-G090[4]	X		No	45.517767	-122.667540	Unsuccessful	
RM12.9W							
DPSC-C095		X	--	45.513113	-122.673131	45.513168	-122.673153
DPSC-G091	X		Yes[5]	45.516744	-122.671677	45.516862	-122.671693
DPSC-G092	X		Yes[5]	45.515825	-122.672195	45.515830	-122.672185
DPSC-G093	X		Yes[5]	45.514802	-122.672683	45.514785	-122.672695
DPSC-G094	X		Yes[5]	45.513939	-122.672952	45.513956	-122.673006
DPSC-G095	X		Yes	45.513113	-122.673131	45.513177	-122.673062
RM13.1E[6]							
RM13.3E							
DPSC-G096	X		Yes	45.509280	-122.667266	45.509453	-122.667464
DPSC-G097	X		No	45.509095	-122.666934	45.509095	-122.666934
RM13.5E[6]							
RM14.1W							
DPSC-C112		X	--	45.496080	-122.667624	45.496097	-122.667572
DPSC-G103[8]	X		No	45.497881	-122.667043	45.497876	-122.667049
DPSC-G104	X		Yes	45.497870	-122.667339	45.497911	-122.667383
DPSC-G105[8]	X		No	45.497694	-122.667076	Unsuccessful	
DPSC-G106[8]	X		No	45.497684	-122.666882	45.497727	-122.666922
DPSC-G107[7]	X		No	45.497507	-122.667092	45.497507	-122.667073

Table 4-1
Sediment Sampling Station Locations

Station ID	Sample Type		Composite (yes/no)	Target Station Coordinates[1]		Actual Station Coordinates[1]	
	Grab	Core		Latitude	Longitude	Latitude	Longitude
DPSC-G108	X		Yes	45.497513	-122.667367	45.497542	-122.667406
DPSC-G109	X		No	45.497104	-122.667303	45.497119	-122.667333
DPSC-G110[7]	X		No	45.496419	-122.667378	45.496417	-122.667318
DPSC-G111[7]	X		No	45.496165	-122.667384	Unsuccessful	
DPSC-G112	X		No	45.496080	-122.667624	45.496063	-122.667583
RM15.1E							
DPSC-G113	X		Yes	45.484409	-122.653637	45.484403	-122.653561
DPSC-G114	X		Yes	45.484340	-122.653896	45.484417	-122.653867
DPSC-G115	X		Yes	45.484160	-122.653911	45.484185	-122.653906
DPSC-G116	X		No	45.483832	-122.653808	45.483789	-122.653788
TriMet Supplemental Sampling							
DPSC-C099[9]		X	--	45.505602	-122.666289	45.505597	-122.666253
DPSC-C100[9]		X	--	45.504363	-122.668386	45.504359	-122.668354
DPSC-G098	X		No	45.505914	-122.665909	45.505952	-122.665881
DPSC-G099	X		Yes	45.505602	-122.666289	45.505631	-122.666272
DPSC-G100	X		No	45.504363	-122.668386	45.504320	-122.668337
DPSC-G101	X		No	45.504312	-122.667977	45.504301	-122.667963
DPSC-G102	X		No	45.504023	-122.667952	45.503985	-122.667924
DPSC-G102-2 (Field Split)	X		No	--	--	45.504019	-122.667922

Notes:
-- Signifies that the data were not collected or are not applicable.
[1] Latitude and longitude coordinates exist in the following coordinate system: WGS 1984 international feet.
[2] The A-Section of collocated core DPSC-C087 was analyzed in place of the unsuccessful grab sample DPSC-G087.
[3] Core sample DPSC-C041 was collected in August 2009 by Anchor QEA, LLC during the NW Natural sediment investigation of the former Portland Gas Manufacturing Site. Samples (core intervals A and B) were provided to the City of Portland for use in the DPSC Phase II.
[4] The A-Section of collocated core DPSC-C090 was analyzed in place of the unsuccessful grab sample DPSC-G090.
[5] Diver collected sample. Composited from exposed riverbed material within an approximately 5-foot radius.
[6] Planned samples for this Focus Area are identified in the Sampling and Analysis Plan to be prepared by Portland General Electric.
[7] Sample intended for archival only.
° DPSC-G106 initially was planned for archival only, but because DPSC-G105 was unsuccessful, this station was analyzed instead.
[9] DPSC Phase II SAP specifies analysis of only the deepest core interval and archival of all other core intervals. Analysis of the surface (A-Section) intervals was subsequently requested by TriMet.

Table 4-2
Significant Modifications from DPSC Phase II SAP Target Locations or Analytical Program

Station ID	Sample Type	Rationale
Locations that were Unsuccessful During Field Sampling		
DPSC-G087	Grab	Rocky river bottom.
DPSC-G090	Grab	Rocky river bottom.
DPSC-G105	Grab	Rocky river bottom.
DPSC-G111	Grab	Rocky river bottom.
Locations with Insufficient Volume for Requested Analysis		
DPSC-C087	Core	Only obtained 'A' section. Material from about 5.5-15 inches was analyzed in place of the unsuccessful G087.
DPSC-G096	Grab	Due to limited sample volume, CAS did not archive frozen sediment for future analysis. Similarly, only 2 liters (rather than the typical 3 liters) of sediment were submitted to NAS for bioassay analysis.
DPSC-G099	Grab	Only two 16-oz jars of gravel recovered. Material was too coarse-grained for analysis and is being archived frozen.
DPSC-G115	Grab	Sediment was sieved and the resulting 90g of fine grained sediment was analyzed for PCBs/pesticides, metals, dioxin/furans and TOC. Insufficient volume was available for analysis of PAHs and TPH.
Rationale for Analysis of Archived Phase II Samples		
DPSC-G115	Grab	Follow-up analysis on available fine grained material (described above)
DPSC-G106	Grab	Analyzed in-lieu of unsuccessful DPSC-G105
DPSC-C087-A	Core	Analyzed in-lieu of unsuccessful DPSC-G087
DPSC-C090-A	Core	Analyzed in-lieu of unsuccessful DPSC-G090
DPSC-C099-A	Core	Analyzed in-lieu of archived sample DPSC-G099 (described above)
DPSC-C100-A	Core	Analyzed as per TriMet's request to provide comparison between DPSC-G100 and DPSC-C100.

Notes:
CAS = Columbia Analytical Services
NAS = Northwest Aquatic Services

Table 4-3
Modified Sample IDs

Original Sample ID			Modified Sample ID
Sample ID	**Sample Date**	**Laboratory Service Request**	**Sample ID**
RM11E-C041-X	8/20/09	K0907749, K1002065	DPSC-C041-X
DPSC-C102-X	3/2/2010	K1001980 K1002553	DPSC-C100-X
DPSC-C5102-F	3/2/2010	K1001980	DPSC-C5100-F
DPSC-G100	2/26/10	K1001808	DPSC-G102-2

Table 4-4
Grab Sample Summary

Sample ID	Date Sampled	Laboratory Service Request	Partial Analyte Group						Additional Analytes					Archive
			PCBs (Aroclors)	Conventionals [1]	Metals [2]	PAHs (w/o Alkylated)	Pesticides	TPH	Ammonia/Sulfides	Grain Size	Butyltins	Dioxins/Furans	Bioassay [3]	
RM12.1E														
DPSC-G086	2/24/10	K1001769	X	X	X	X	X	X	--	--	--	--	--	X
RM12.4W														
DPSC-G088	2/24/10	K1001769	X	X	X	X	X	X	X	--	--	--	X	X
RM12.5E														
DPSC-G089	2/24/10	K1001769	X	X	X	X	X	X	--	--	--	X	--	X
RM12.9W														
DPSC-G091	3/25/10	K1002878	X	X	X	X	X	X	X	--	X	--	--	X
DPSC-G092	3/25/10	K1002878	X	X	X	X	X	X	X	--	X	--	--	X
DPSC-G093	3/25/10	K1002878	X	X	X	X	X	X	X	--	X	--	X	X
DPSC-G094	3/25/10	K1002878	X	X	X	X	X	X	X	--	X	X	X	X
DPSC-G095	2/22/10	K1001653	X	X	X	X	X	X	X	--	X	X	X	X
RM13.3E														
DPSC-G096	2/25/10	K1001769	X	X	X	X	X	X	X	--	--	U	X	X
DPSC-G097	3/24/10	K1002878	X	X	X	X	X	X	X	--	--	--	--	X
RM14.1W														
DPSC-G103	2/23/10	K1001653	--	--	--	--	--	--	--	--	--	--	--	X
DPSC-G104	2/23/10	K1001653	X	X	X	X	X	X	--	--	--	--	--	X
DPSC-G106	2/23/10	K1001653 K1002553	X	X	X	X	X	X	--	--	--	--	--	X
DPSC-G107	2/23/10	K1001653	--	--	--	--	--	--	--	--	--	--	--	X
DPSC-G108	2/23/10	K1001653	X	X	X	X	X	X	--	--	--	--	--	X
DPSC-G109	2/24/10	K1001769	X	X	X	X	X	X	--	--	--	--	--	X

Table 4-4
Grab Sample Summary

Sample ID	Date Sampled	Laboratory Service Request	Partial Analyte Group						Additional Analytes					Archive
			PCBs (Aroclors)	Conventionals [1]	Metals [2]	PAHs (w/o Alkylated)	Pesticides	TPH	Ammonia/Sulfides	Grain Size	Butyltins	Dioxins/Furans	Bioassay [3]	
DPSC-G110	2/24/10	K1001769	--	--	--	--	--	--	--	--	--	--	--	X
DPSC-G112	2/23/10	K1001653	X	X	X	X	X	X	--	--	--	--	--	X
RM15.1E														
DPSC-G113	2/25/10	K1001769	X	X	X	X	X	X	--	--	--	X	--	X
DPSC-G114	2/25/10	K1001769	X	X	X	X	X	X	--	--	--	X	--	X
DPSC-G115	2/25/10	K1001769 K1002553	X	X	X	U	X	U	--	--	--	X	--	X
DPSC-G116	2/25/10	K1001769	X	X	X	X	X	X	--	--	--	X	--	X
TriMet Supplemental Sampling														
DPSC-G098	2/26/10	K1001808	X	X	X	X	X	X	X	X	X	--	--	X
DPSC-G099	2/26/10	K1001808	U	U	U	U	U	U	U	U	U	--	--	X
DPSC-G100	3/25/10	K1002878	X	X	X	X	X	X	X	X	X	--	--	X
DPSC-G101	2/26/10	K1001808	X	X	X	X	X	X	X	X	X	--	--	X
DPSC-G102	2/26/10	K1001808	X	X	X	X	X	X	X	X	X	--	--	X
DPSC-G102-2	2/26/10	K1001808	X	X	X	X	X	X	X	X	X	--	--	X

Notes:

PAHs = polycyclic aromatic hydrocarbons
PCBs = polychlorinated biphenyls
TPH = total petroleum hydrocarbons (silica gel treatment)

U = Unsuccessful due to insufficient sediment volume or sediment characteristics.
[1] Total organic carbon (TOC) and total solids. TriMet samples include grain size, sulfides, and ammonia.

[2] Aluminum, antimony, arsenic, cadmium, chromium, copper, lead, mercury, silver, selenium, and zinc.

[3] *Chironomus dilutus* 10-day survival and growth and *Hyalella azteca* 28-day survival and growth. All bioassay samples were analyzed for ammonia and sulfide. Where both chemical and biological analyses were conducted, samples for chemical analyses also were obtained from the upper 10 cm of sediment to have comparable contaminant concentration data and biological testing results.

Table 4-5
Core Sample Summary

Sample ID	Core Processing Date	Depth (cm)		Laboratory Service Request	Partial Analyte Group						Additional Analytes				Archive
		Start	End		PCBs (Aroclors)	Conventionals [1]	Metals [2]	PAHs (w/o Alkylated)	Pesticides	TPH	Ammonia/Sulfides	Grain Size	Butyltins	Dioxins/Furans	
RM12.1E															
DPSC-C086-A	3/3/2010	0	30	K1001980	--	--	--	--	--	--	--	--	--	--	X
DPSC-C086-B	3/3/2010	30	91	K1001980	X	X	X	X	X	X	--	--	--	--	X
DPSC-C086-C	3/3/2010	91	108	K1001980	--	--	--	--	--	--	--	--	--	--	X
DPSC-C087-A	3/3/10	0	30	K1001980 K1002553	X	X	X	X	X	X	--	--	--	--	X
RM12.4W															
DPSC-C041-A	8/20/09	0	30	K0907749, K1002065	X	X	X	X	X	X	--	--	--	--	X
DPSC-C041-B	8/20/09	30	67	K0907749, K1002065	X	X	X	X	X	X	--	--	--	--	X
RM12.5E															
DPSC-C089-A	3/3/2010	0	30	K1001980	--	--	--	--	--	--	--	--	--	--	X
DPSC-C089-B	3/3/2010	30	91	K1001980	X	X	X	X	X	X	--	--	--	X	X
DPSC-C089-C	3/3/2010	91	152	K1001980	--	--	--	--	--	--	--	--	--	--	X
DPSC-C090-A	3/3/2010	0	30	K1001980 K1002553	X	X	X	X	X	X	--	--	--	X	X
DPSC-C090-B	3/3/2010	30	87	K1001980	X	X	X	X	X	X	--	--	--	X	X
RM12.9W															
DPSC-C095-A	3/2/2010	0	30	K1001980	--	--	--	--	--	--	--	--	--	--	X
DPSC-C095-B	3/2/2010	30	63	K1001980	X	X	X	X	X	X	--	--	X	X	X
RM14.1W															
DPSC-C112-A	3/2/2010	0	30	K1001980	--	--	--	--	--	--	--	--	--	--	X
DPSC-C112-B	3/2/2010	30	100	K1001980	X	X	X	X	X	X	--	--	--	--	X

Table 4-5
Core Sample Summary

Sample ID	Core Processing Date	Depth (cm)		Laboratory Service Request	Partial Analyte Group						Additional Analytes				Archive
		Start	End		PCBs (Aroclors)	Conventionals [1]	Metals [2]	PAHs (w/o Alkylated)	Pesticides	TPH	Ammonia/Sulfides	Grain Size	Butyltins	Dioxins/Furans	
TriMet Supplemental Sampling															
DPSC-C099-A	3/2/2010	0	30	K1001980 K1002553	X	X	X	X	X	X	X	X	X	--	X
DPSC-C099-B	3/2/2010	30	91	K1001980	--	--	--	--	--	--	--	--	--	--	X
DPSC-C099-C	3/2/2010	91	152	K1001980	--	--	--	--	--	--	--	--	--	--	X
DPSC-C099-D	3/2/2010	152	195	K1001980 K1003619	X	X	X	X	X	X	X	X	X	--	X
DPSC-C100-A	3/2/2010	0	30	K1001980 K1002553	X	X	X	X	X	X	X	X	X	--	X
DPSC-C100-B	3/2/2010	30	91	K1001980	--	--	--	--	--	--	--	--	--	--	X
DPSC-C100-C	3/2/2010	91	152	K1001980	--	--	--	--	--	--	--	--	--	--	X
DPSC-C100-D	3/2/2010	152	213	K1001980	--	--	--	--	--	--	--	--	--	--	X
DPSC-C100-E	3/2/2010	213	305	K1001980	--	--	--	--	--	--	--	--	--	--	X
DPSC-C100-F	3/2/2010	305	370	K1001980	X	X	X	X	X	X	X	X	X	--	X

Notes:
PAHs = polycyclic aromatic hydrocarbons
PCBs = polychlorinated biphenyls
TPH = total petroleum hydrocarbons (silica gel treatment)
U = Unsuccessful due to insufficient sediment volume or sediment characteristics.
[1] Total organic carbon (TOC) and total solids. TriMet samples include grain size, sulfides, and ammonia.
[2] Aluminum, antimony, arsenic, cadmium, chromium, copper, lead, mercury, silver, selenium, and zinc.