TABLES

Table 3-1
Occurrence and Status of Threatened, Endangered, and Sensitive Species in the Bradford Island Vicinity, Oregon

Common and Scientific Name	Status				Probability of Occurrence
	Federal	State	ONHP List	TNC	
Plants					
Golden indian-paintbrush *(Castilleja levisecta)*	LT	LE	1-ex	G1, SH	Very unlikely, no suitable habitat, not seen in Oregon for 40 years, not observed.
Howellia (*Howellia aquatilus*)	LT	LT	1	G3, S1	Very unlikely, no suitable habitat, not observed.
Howell's daisy *(Erigeron howellii)*	SoC	C	1	G2, S2	Very unlikely, known from higher elevations in the Gorge, potentially suitable habitat on Bradford Island in forested areas, not project site, not observed.
Oregon daisy *(Erigeron oreganus)*	SoC	C	1	G3, S3	Very unlikely, last seen in early 1900s in Bonneville Dam area, unlikely to occur, not observed.
Tall bugbane *(Cimicifuga elata)*		C	1	G3, S3	Very unlikely, not observed, no suitable habitat.
Barrett's penstemon *(Penstemon barrettiae)*	SoC	C	1	G2, S2	Very unlikely, not observed in potentially suitable habitat, and would be identifiable if it had been present.
Howell's bentgrass *(Agrostis howellii)*	SoC	C	1	G2, S2	Very unlikely, not observed, should have been identifiable if present.
Cold-water corydalis *(Corydalis aquae-gelidae)*	SoC	C	1	G5T3, S3	Very unlikely, not observed, no habitat present.
Liverwort *(Scapania gymnostomophila)*			2	G4, S1	Very unlikely, not observed, potentially suitable habitat present on side of island north of project area.
Strickland's tauschia *(Tauschia stricklandii)*			2	G4, S1	Very unlikely, no suitable habitat, not observed.
Long-bearded hawkweed *(Hieracium longiberbe)*			4	G4G5, S3	Very unlikely, not observed, potential cliff habitat not within project area.
Sicklepod rockcress *(Arabis sparsiflora* var. *atrorubens)*			2	G5T3, S2	Very unlikely, not observed, probably no suitable habitat present.
Columbia lewisia (Lewisia columbiana var. columbiana)			2	G4T4, S2	Very unlikely, not observed, rocky slope habitat present outside of project area.
Oregon bolandra (Bolandra oregana)		SC	4	G3, S3	Very unlikely, not observed, no wet cliff/talus habitat present on Bradford Island.
Invertebrates					
Pristine springsnail (Pristinicola hempilli)			3	G3, S2	Very unlikely, no suitable habitat (springs) present in project area.

Table 3-1 (continued)
Occurrence and Status of Threatened, Endangered, and Sensitive Species in the Bradford Island Vicinity, Oregon

Common and Scientific Name	Status				Probability of Occurrence
	Federal	State	ONHP List	TNC	
Fish					
Sockeye salmon *(Oncorhynchus nerka)* Salmon River tributary to Snake River, Idaho ESU	LE		1-ex	G5T1Q, SXB, S1M	Any surviving fish of this extremely rare species would pass through Bonneville Dam and may move past Bradford Island on upstream and downstream migration. No spawning or rearing.
Chum salmon *(Oncorhynchus keta)* Lower Columbia River ESU	LT	SC	1	G5T2Q, S2	Unlikely, current range restricted to below Bonneville Dam. No spawning or rearing.
Steelhead *(Oncorhynchus mykiss)* Lower Columbia ESU	LT	SC	1	G5T2Q, S2	Adults and smolt pass through Bonneville Dam and may move past Bradford Island on upstream and downstream migrations. No spawning or rearing.
Steelhead *(Oncorhynchus mykiss)* Snake River Basin ESU	LT	SV	1	G5T2T3Q, S2S3	Adults and smolt pass through Bonneville Dam and may move past Bradford Island on upstream and downstream migrations. No spawning or rearing.
Steelhead *(Oncorhynchus mykiss)* Middle Columbia ESU	LT	SV	1	G5T2Q, S2	Adults and smolt pass through Bonneville Dam and may move past Bradford Island on upstream and downstream migrations. No spawning or rearing.
Chinook salmon *(Oncorhynchus tsawytscha)* Snake River ESU	LT	LT	1	G5T1Q, S1	Adults and smolt pass through Bonneville Dam and may move past Bradford Island on upstream and downstream migrations. No spawning or rearing.
Chinook salmon *(Oncorhynchus tsawytscha)* Lower Columbia ESU	LT	SC	1	G5T2Q, S2	Adults and smolt pass through Bonneville Dam and may move past Bradford Island on upstream and downstream migrations. No spawning or rearing.
Coastal cutthroat trout *(Oncorhynchus clarki clarki)*	SoC	SC	1	G4T3Q, S2	Adults and juveniles pass through Bonneville Dam and may move past Bradford Island on upstream and downstream migrations. No spawning or rearing.
Coho salmon *(Oncorhynchus kisutch)* Lower Columbia ESU	LT	LE	1	G4T2Q, S2	Adults and juveniles pass through Bonneville Dam and may move past Bradford Island on upstream and downstream migrations. No spawning or rearing.
Pacific lamprey *(Lampropelta tridentata)*	SoC	SV	4	G5, S3	Adults and juveniles pass through Bonneville Dam and may move past Bradford Island on upstream and downstream migrations. No spawning or rearing.
Bull Trout *(Salvelinus confluentus)*	LT				Adults and juveniles pass thorugh Bonneville Dam and may move past Bradford Island on upstream and downstream migrations. No spawning or rearing.

Table 3-1 (continued)
Occurrence and Status of Threatened, Endangered, and Sensitive Species in the Bradford Island Vicinity, Oregon

Common and Scientific Name	Status				Probability of Occurrence
	Federal	State	ONHP List	TNC	
Amphibians					
Larch mountain salamander *(Plethodon larselli)*	SoC	SV	2	G3, S2	Very unlikely, suitable small-sized talus slope habitat not present.
Oregon spotted frog *(Rana pretiosa)*	C	SC	1	G2, S2	Very unlikely, no suitable warm, shallow marsh habitat present.
Reptiles					
Western painted turtle *(Chrysemys picta)*		SC	2	G5, S2	Very unlikely, observed in ponds near Cascade Locks, no suitable habitat in project area.
Birds					
Northern spotted owl *(Strix occidentalis caurina)*	LT	LT	1	G3T3, S3	Very unlikely to occur, only as transients passing through, area too small and disturbed to provide habitat.
Bald eagle *(Haliaeetus leucocephalus)*		LT	4	G5,S4B, S4N	Summer breeding and wintering resident of the vicinity.
Mammals					
Columbia white-tailed deer *(Odocoileus virginianus lecurus)*	PS:LE	SV	1	G5T2Q, S2	Very unlikely, no suitable habitat, current range below RM 50.
Northern (Stellar) Sea Lion *(Eumetopias jubatus)*	LT	SV	2	G3, S2	Sea lions have been observed foraging in the Bonneville pool, but they are not known to occur in the Bonneville forebay (above the dam).

State and Federal Status Definitions

LE – Listed Endangered. Taxa listed by the U.S. Fish and Wildlife Service or National Marine Fisheries Service as Endangered under the Endangered Species Act, or by the Oregon Departments of Agriculture (ODA) and Fish and Wildlife (ODFW) under the Oregon Endangered Species Act of 1987. Endangered taxa are those that are in danger of becoming extinct within the foreseeable future throughout all or a significant portion of their range.

LT – Listed Threatened. Taxa listed by the above agencies as Threatened; defined as those taxa likely to become endangered within the foreseeable future.

PS – Partial Status. Taxa listed by the above agencies in part of its range.

C – Candidate. Candidate taxa for which National Marine Fisheries Service or U.S. Fish and Wildlife Service have sufficient information to support a proposal to list under the Endangered Species Act, or which is a candidate for listing by the ODA under the Oregon Endangered Species Act.

SoC – Species of Concern. Former Category 2 candidates for which additional information is needed to propose as threatened or endangered under the Endangered Species Act; these species are under review for consideration as Candidates for listing under the Endangered Species Act.

SC – **State Critical**. Species for which listing as threatened or endangered is pending; or those for which listing as threatened or endangered may be appropriate if immediate conservation activities are not taken. Also considered critical are some peripheral species that are at risk throughout their range, and some disjunct populations.

SV – State Vulnerable. Species for which listing as threatened or endangered is not believed to be imminent and can be avoided through continued or expanded use of adequate protective measures and monitoring. In some cases the population is sustainable and protective measures are being implemented; in others, the population may be declining and improved protective measures are needed to maintain sustainable populations over time.

Oregon Natural Heritage Program (ONHP) Definitions

List 1 - taxa that are threatened with extinction or presumed to be extinct (-ex) throughout their entire range.

Table 3-1 (continued)
Occurrence and Status of Threatened, Endangered, and Sensitive Species in the Bradford Island Vicinity, Oregon

List 2 – taxa threatened with extirpation or presumed extirpated from Oregon; often peripheral or disjunct species that are of concern considering species diversity within Oregon; can be very significant in protecting the genetic diversity of the taxon; ONHP regards extreme rarity as a significant threat and has included species that are very rare in Oregon on this list.

List 3 – taxa for which more information is needed before status can be determined, but which may be threatened or endangered in Oregon or throughout their range.

List 4 – taxa that are of conservation concern but not currently threatened or endangered, including taxa that are very rare but considered secure as well as those declining in numbers or habitat but still too common to be proposed as threatened or endangered; these taxa require continued monitoring.

The Nature Conservancy's (TNC) Natural Heritage Network Ranks

The Natural Heritage Network ranks are part of a national system of ranking species throughout the world and is used throughout the U.S., Canada, and 13 Latin American countries. Both global and state ranks are provided in ONHP (2007), abbreviated as "G" and "S", respectively.

1 – Critically imperiled because of extreme rarity or because it is somehow especially vulnerable to extinction or extirpation, typically with 5 or fewer occurrences.

2 – Imperiled because of rarity or because other factors demonstrably make it very vulnerable to extinction (extirpation), typically with 6-20 occurrences.

3 – Rare, uncommon, or threatened, but not immediately imperiled, typically with 21-100 occurrences.

4 – Not rare and apparently secure, but with cause for long-term concern, usually with more than 100 occurrences.

5 – Demonstrably widespread, abundant, and secure.

B – Breeding. Conservation status refers to the breeding population of the species in the nation or state/province.

H – Possibly extirpated or extinct. Known from only historical records but still some hope of rediscovery. There is evidence that the species or ecosystem may no longer be present in the jurisdiction, but not enough to state this with certainty.

M – Migrant. Migrant species occurring regularly on migration at particular staging areas or concentration spots where the species might warrant conservation attention. Conservation status refers to the aggregating transient population of the species in the nation or state/province.

N – Nonbreeding. Conservation status refers to the non-breeding population of the species in the nation or state/province.

T – Infraspecific Taxon (trinomial). The status of infraspecific taxa (subspecies or varieties) are indicated by a "T-rank" following the species' global rank. A vertebrate animal population, (e.g., listed under the U.S. Endangered Species Act or assigned candidate status) may be tracked as an infraspecific taxon and given a T-rank; in such cases a Q is used after the T-rank to denote the taxon's informal taxonomic status.

Q – Questionable taxonomy that may reduce conservation priority. Distinctiveness of this entity as a taxon or ecosystem type at the current level is questionable; resolution of this uncertainty may result in change from a species to a subspecies or hybrid, or inclusion of this taxon or type in another taxon or type, with the resulting taxon having a lower-priority (numerically higher) conservation status rank.

X – Presumed extirpated or extinct.

Table 3-2
State and Federally Listed Anadromous Salmonid Species

Evolutionarily Significant Unit (ESU)	State Status	Federal Status	Life History Type	Federal Register (FR) Citation
Chinook Salmon (*Oncorhynchus tshawytscha*)				
Snake River	Threatened	Threatened	Ocean	57 FR 14653; April 22, 1992
Lower Columbia River		Threatened	Stream	64 FR 14308; March 24, 1999
Upper Columbia River		Endangered	Stream	64 FR 14308; March 24, 1999
Upper Willamette River		Threatened	Ocean	64 FR 14308; March 24, 1999
Chum Salmon (*Oncorhynchus keta*)				
Columbia River		Threatened	Ocean	64 FR 14508; March 25, 1999
Sockeye Salmon (*Oncorhynchus nerka*)				
Snake River		Endangered	Stream	56 FR 58619; November 20, 1991
Steelhead Trout (*Oncorhynchus mykiss*)				
Snake River Basin		Threatened	Stream	62 FR 43937; August 18, 1997
Lower Columbia River		Threatened	Stream	63 FR 13347; March 19, 1998
Middle Columbia River		Threatened	Stream	64 FR 14517; March 25, 1999
Upper Columbia River		Endangered	Stream	62 FR 43937; August 18, 1997
Upper Willamette River		Threatened	Stream	64 FR 14517; March 25, 1999
Coho Salmon *(Oncorhynchus kisutch)*				
Lower Columbia River	Endangered	Threatened	Stream	60 FR 38011; July 25, 1995

Table 3-3
Designated Beneficial Uses – Mainstem Columbia River

Beneficial Uses	Columbia River Mouth to RM 86	Columbia River RM 86 to 309
Public Domestic Water Supply[1]	X	X
Private Domestic Water Supply[1]	X	X
Industrial Water Supply	X	X
Irrigation	X	X
Livestock Watering	X	X
Fish & Aquatic Life[2]	X	X
Wildlife & Hunting	X	X
Fishing	X	X
Boating	X	X
Water Contact Recreation	X	X
Aesthetic Quality	X	X
Hydro Power		X
Commercial Navigation & Transportation	X	X

Source: OAR 340-41-0101, November 2003

[1] With adequate pretreatment and natural quality that meets drinking water standards.

[2] See also Table 3-3 for fish use designations for this river.

Table 3-4
Beneficial Use Designations – Fish Uses, Mainstem Columbia River

Geographic Extent of Use	Salmon and Steelhead Migration Corridors (20°C)	Salmon and Steelhead Spawning through Fry Emergence	Shad and Sturgeon Spawning and Rearing
Mainstem Columbia River			
Beacon Rock to Upstream of Ives Island (RM 141.5 to RM 143.5)		October 15 – March 31	
Columbia River, mouth to Washington border (RM309)	X		
Columbia River (RM 147 to RM 203)			X

Source: OAR 340-41-0101, November 2003
RM = River mile

Table 5-1a
1999/2000 Landfill Supplemental Site Inspection Soil Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, Herbicides, and Pesticides
(Page 1 of 2)

Site ID	BIL01SSI	BIL02SSI	BIL03SSI	BIL04SSI	BIL05SSI	BIL06SSI*	BIL09SSI	BIL10SSI	BIL11SSI	BIL12SSI	BIL13SSI*	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	990920BIL01SS	990920BIL02SS	990920BIL03SS	990920BIL04SS	990920BIL05SS	990920BIL06SS	990920BIL09SS	990920BIL10SS	990921BIL11SS	990921BIL12SS	000413BIL13SS		
Sample Date	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/21/1999	9/21/1999	4/13/2000		
Sample Depth (Feet bgs)	0.0-0.33	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5		
PCB Aroclors (µg/kg dry)													
Aroclor 1016	35.0 UJ	34.0 UJ	35.0 UJ	34.0 UJ	36.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	37.0 UJ	35.0 UJ	50.0 UJ	371	Eco
Aroclor 1221	35.0 UJ	34.0 UJ	35.0 UJ	34.0 UJ	36.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	37.0 UJ	35.0 UJ	50.0 UJ	371	Eco
Aroclor 1232	35.0 UJ	34.0 UJ	35.0 UJ	34.0 UJ	36.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	37.0 UJ	35.0 UJ	50.0 UJ	371	Eco
Aroclor 1242	35.0 UJ	34.0 UJ	35.0 UJ	34.0 UJ	36.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	37.0 UJ	35.0 UJ	50.0 UJ	371	Eco
Aroclor 1248	35.0 UJ	34.0 UJ	35.0 UJ	34.0 UJ	36.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	37.0 UJ	35.0 UJ	50.0 UJ	371	Eco
Aroclor 1254	35.0 UJ	34.0 UJ	35.0 UJ	34.0 UJ	36.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	37.0 UJ	35.0 UJ	50.0 UJ	371	Eco
Aroclor 1260	**58.0 J**	**420 J**	**48.0 J**	**660 J**	**160 J**	**81.5 J**	35.0 UJ	35.0 UJ	37.0 UJ	35.0 UJ	50.0 UJ	371	Eco
Total PCBs as Aroclors (NDs at MDL) [1]	**128 J**	**488 J**	**118 J**	**728 J**	**232 J**	**152 J**	105 UJ	105 UJ	111 UJ	105 UJ	150 UJ	371	Eco
Metals (mg/kg dry)													
Antimony	**2.80**	2.70 U	2.80 U	2.70 U	**4.20**	**3.90**	2.80 U	2.60 U	2.90 U	2.70 U	-	0.270	Eco
Arsenic	**3.60**	**1.50**	**4.90**	**3.20**	**30.1**	**3.70**	**3.00**	**3.10**	**11.3**	**2.80**	**1.98**	5.40	UPL
Barium	**83.4**	**71.1**	**77.9**	**58.9**	**204**	**111**	**119**	**108**	**108**	**115**	**243**	330	Eco
Beryllium	**0.300**	0.270 U	0.280 U	0.270 U	**0.460**	**0.350**	**0.400**	**0.440**	**0.540**	**0.370**	**0.576**	21.0	Eco
Cadmium	0.270 U	0.270 U	**0.500**	**0.440**	**1.30**	**1.75**	0.280 U	0.260 U	0.290 U	0.270 U	**0.343**	0.360	Eco
Chromium	**25.2**	**15.8**	**14.7**	**33.8**	**237**	**21.9**	**18.8**	**16.3**	**50.0**	**17.3**	**23.1**	28.1	UPL
Copper	**43.8**	**39.3**	**74.8**	**56.2**	**494**	**143**	**26.6**	**25.5**	**131**	**23.5**	**58.7 J**	56.7	UPL
Iron	**26,700**	**22,900**	**16,500**	**14,100**	**37,000**	**21,600**	**20,700**	**22,200**	**31,400**	**19,700**	**45,900**	36,900	UPL
Lead	**74.5**	**153**	**362**	**699**	**486**	**168**	**40.5**	**19.3**	**36.5**	**22.8**	**5.34**	25.5	UPL
Manganese	**372**	**270**	**244**	**196**	**714**	**333**	**312**	**327**	**720**	**300**	**415**	885	UPL
Mercury	0.110 U	0.110 U	**1.40**	**0.120**	**0.840**	**4.15**	**0.120**	0.110 U	0.110 U	0.100 U	**0.106**	0.0660	UPL
Nickel	**40.0**	**18.0**	**13.4**	**15.4**	**170**	**19.2**	**14.9**	**14.9**	**42.4**	**13.6**	**20.3 J**	38.0	Eco
Selenium	0.260 U	0.270 U	0.270 U	0.270 U	1.40 U	0.280 U	0.550 U	0.520 U	1.50 U	0.510 U	**0.848 J**	0.520	Eco
Silver	0.540 U	0.530 U	0.560 U	0.530 U	**1.50**	0.510 U	0.560 U	0.510 U	0.570 U	0.540 U	0.262 U	4.20	Eco
Thallium	0.260 U	0.270 U	0.270 U	0.270 U	0.280 U	0.270 U	0.280 U	0.260 U	0.290 U	0.250 U	**0.378**	1.00	Eco
Zinc	**88.7**	**98.0**	**150**	**134**	**635**	**138**	**85.1**	**69.6**	**163**	**69.0**	**41.6**	71.7	UPL
Petroleum Hydrocarbons (mg/kg dry)													
Diesel Range Organics	**31.0**	**110**	**80.0**	**590**	**300**	**1,000**	**32.0**	**23.0**	**31.0**	**17.0**	25.0 U	23,000	HH
Residual Range Organics	**210**	**1,400**	**380**	**3,000**	**1,700**	**9,450**	**130**	**100**	**150**	**100**	100 U	40,000	HH
Gasoline Range Organics	-	-	-	5.10 U	5.40 U	5.30 U	5.30 U	5.30 U	-	-	20.0 U	13,000	HH
Herbicides (µg/kg dry)													
2,4,5-T	**93.0**	3.10 U	**63.0**	8.70 U	3.30 U	3.20 U	6.70 U	9.00 U	3.30 U	11.0 U	50.0 U	21.0	Eco
2,4,5-TP (Silvex)	4.00 U	2.90 U	5.00 U	3.60 U	2.50 U	4.50 U	10.0 U	5.50 U	9.60 U	13.0 U	50.0 U	21.0	Eco
2,4-D	21.0 U	21.0 U	21.0 U	20.0 U	22.0 U	21.0 U	21.0 U	21.0 U	30.0 U	30.0 U	50.0 U	21.0	Eco
2,4-DB	10.0 U	10.0 U	5.00 U	10.0 U	11.0 U	10.0 U	34.0 U	11.0 U	11.0 U	10.0 U	50.0 U	21.0	Eco
Dalapon	42.0 U	41.0 U	42.0 U	41.0 U	43.0 U	42.0 U	42.0 U	42.0 U	44.0 U	42.0 U	50.0 U	18,000,000	HH
Dicamba	2.10 U	2.10 U	2.10 U	4.80 U	5.70 U	2.10 U	12.0 U	2.10 U	2.20 U	2.10 U	50.0 U	18,000,000	HH
Dichloroprop	**170**	87.0 U	260 U	**180**	180 U	75.0 U	400 U	240 U	340 U	310 U	50.0 U	21.0	Eco
Dinoseb	13.0 U	10.0 U	15.0 U	10.0 U	16.0 U	10.0 U	15.0 U	16.0 U	11.0 U	10.0 U	50.0 U	620,000	HH
MCPA	1,000 U	1,400 U	16,000 U	1,000 U	1,100 U	1,900 U	1,100 U	1,100 U	1,100 U	2,500 U	25,000 U	21.0	Eco
MCPP	4,800 U	**14,000**	1,100 U	13,000 U	1,100 U	**9,500**	28,000 U	38,000 U	28,000 U	32,000 U	25,000 U	21.0	Eco

Table 5-1a
1999/2000 Landfill Supplemental Site Inspection Soil Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, Herbicides, and Pesticides
(Page 2 of 2)

Site ID	BIL01SSI	BIL02SSI	BIL03SSI	BIL04SSI	BIL05SSI	BIL06SSI*	BIL09SSI	BIL10SSI	BIL11SSI	BIL12SSI	BIL13SSI*	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	990920BIL01SS	990920BIL02SS	990920BIL03SS	990920BIL04SS	990920BIL05SS	990920BIL06SS	990920BIL09SS	990920BIL10SS	990921BIL11SS	990921BIL12SS	000413BIL13SS		
Sample Date	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/21/1999	9/21/1999	4/13/2000		
Sample Depth (Feet bgs)	0.0-0.33	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5		
Pesticides (µg/kg dry)													
4,4'-DDD	3.50 U	3.40 U	6.10 U	3.40 U	5.10 U	7.40 U	18.0 U	13.0 U	3.70 U	25.0 U	1.00 U	21.0	Eco
4,4'-DDE	3.50 U	9.40 U	3.50 U	**17.0**	3.60 U	3.50 U	3.50 U	3.50 U	3.70 U	3.50 U	1.00 U	21.0	Eco
4,4'-DDT	3.50 U	3.40 U	4.80 U	3.40 U	13.0 U	3.50 U	3.50 U	3.50 U	3.70 U	3.50 U	1.00 U	21.0	Eco
Aldrin	1.80 U	1.70 U	1.80 U	1.70 U	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	1.00 U	4.90	Eco
BHC (alpha)	1.80 U	1.70 U	1.80 U	1.70 U	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	0.500 U	340	HH
BHC (beta)	1.80 U	1.70 U	1.80 U	2.10 U	1.80 U	1.80 U	1.80 U	1.80 U	**2.60**	1.80 U	0.900 U	960	HH
BHC (delta)	1.80 U	1.70 U	1.80 U	1.70 U	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	0.600 U	340	HH
BHC (gamma) Lindane	1.80 U	1.70 U	1.80 U	1.70 U	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	1.00 U	2,000	HH
Chlordane (alpha)	1.80 U	1.70 U	2.10 U	19.0 U	**4.00**	4.10 U	8.80 U	3.50 U	1.80 U	8.00 U	0.800 U	7,200	HH
Chlordane (gamma)	1.80 U	11.0 U	1.80 U	13.0 U	2.40 U	1.80 U	2.60 U	1.80 U	1.80 U	2.70 U	0.700 U	7,200	HH
Dieldrin	3.50 U	3.40 U	3.50 U	3.40 U	3.60 U	3.50 U	3.50 U	3.50 U	3.70 U	3.50 U	2.00 U	4.90	Eco
Endosulfan I	1.80 U	3.50 U	1.80 U	1.70 U	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	1.00 U	20,000	Eco
Endosulfan II	3.50 U	4.90 U	3.50 U	3.60 U	3.60 U	3.50 U	3.50 U	3.50 U	3.70 U	3.50 U	2.00 U	20,000	Eco
Endosulfan Sulfate	3.50 U	3.40 U	3.50 U	3.40 U	3.60 U	3.50 U	3.50 U	3.50 U	3.70 U	3.50 U	1.00 U	20,000	Eco
Endrin	3.50 U	3.40 U	3.50 U	3.40 U	3.60 U	3.50 U	3.50 U	3.50 U	3.70 U	3.50 U	2.00 U	4.90	Eco
Endrin Aldehyde	3.50 U	13.0 U	3.50 U	3.40 U	3.60 U	4.00 U	3.50 U	3.50 U	3.70 U	3.50 U	2.00 U	4.90	Eco
Endrin Ketone	3.50 U	3.40 U	3.50 U	3.40 U	3.60 U	3.50 U	3.50 U	3.50 U	3.70 U	3.50 U	-	4.90	Eco
Heptachlor	1.80 U	1.70 U	1.80 U	1.70 U	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	1.00 U	480	HH
Heptachlor Epoxide	1.80 U	3.20 U	1.80 U	7.10 U	2.00 U	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	1.00 U	240	HH
Methoxychlor	18.0 U	17.0 U	18.0 U	17.0 U	18.0 U	18.0 U	18.0 U	18.0 U	18.0 U	18.0 U	4.00 U	500,000	Eco
Toxaphene	35.0 U	34.0 U	35.0 U	34.0 U	36.0 U	35.0 U	35.0 U	35.0 U	37.0 U	35.0 U	50.0 U	2,000	HH

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit

[1] Only Aroclors 1248, 1254, and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Landfill AOPC soil samples.
- = Not Analyzed
-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-1b
1999/2000 Landfill Supplemental Site Inspection Soil Analytical Results
Volatile Organic Compounds
(Page 1 of 2)

Site ID	BIL01SSI	BIL02SSI	BIL03SSI	BIL04SSI	BIL05SSI	BIL06SSI*	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	990920BIL01SS	990920BIL02SS	990920BIL03SS	990920BIL04SS	990920BIL05SS	990920BIL06SS		
Sample Date	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/20/1999		
Sample Depth (Feet bgs)	0.0-0.33	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5		
Volatile Organic Compounds (µg/kg dry)							--	--
1,1,1,2-Tetrachloroethane	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	9,300	HH
1,1,1-Trichloroethane (TCA)	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	38,000,000	HH
1,1,2,2-Tetrachloroethane	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	2,800	HH
1,1,2-Trichloroethane	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	2,700	HH
1,1-Dichloroethane	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	5,900	HH
1,1-Dichloroethene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	680,000	HH
1,1-Dichloropropene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	8,100	HH
1,2,3-Trichlorobenzene	5.30 U	5.20 U	5.30 U	5.10 U	5.40 U	5.30 U	20,000	Eco
1,2,3-Trichloropropane	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	95.0	HH
1,2,4-Trichlorobenzene	5.30 U	5.20 U	5.30 U	5.10 U	5.40 U	5.30 U	20,000	Eco
1,2,4-Trimethylbenzene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	200,000	Eco
1,2-Dibromo-3-chloropropane	5.30 U	5.20 U	5.30 U	5.10 U	5.40 U	5.30 U	69.0	HH
1,2-Dibromoethane (EDB)	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	140	HH
1,2-Dichlorobenzene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	2,260	Eco
1,2-Dichloroethane (EDC)	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	590	HH
1,2-Dichloropropane	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	4,500	HH
1,3,5-Trimethylbenzene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	150,000	HH
1,3-Dichlorobenzene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	2,260	Eco
1,3-Dichloropropane	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	20,000,000	HH
1,4-Dichlorobenzene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	17,000	HH
2,2-Dichloropropane	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	4,500	HH
2-Butanone (MEK)	10.0 U	10.0 U	11.0 U	10.0 U	11.0 U	10.0 U	200,000,000	HH
2-Chlorotoluene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	20,000,000	HH
2-Hexanone	10.0 U	10.0 U	11.0 U	10.0 U	11.0 U	10.0 U	1,250,000	Eco
4-Chlorotoluene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	72,000,000	HH
4-Isopropyltoluene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	200,000	Eco
4-Methyl-2-pentanone (MIBK)	10.0 U	10.0 U	11.0 U	10.0 U	11.0 U	10.0 U	1,250,000	Eco
Acetone	10.0 U	10.0 U	11.0 U	10.0 U	11.0 U	10.0 U	1,250,000	Eco
Benzene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	1,200	HH
Bromobenzene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	1,800,000	HH
Bromochloromethane	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	1,900	HH
Bromodichloromethane	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	1,900	HH
Bromoform	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	360,000	HH
Bromomethane	5.30 U	5.20 U	5.30 U	5.10 U	5.40 U	5.30 U	17,000	HH
Carbon Disulfide	10.0 U	10.0 U	11.0 U	10.0 U	11.0 U	10.0 U	1,000,000	Eco
Carbon Tetrachloride	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	630	HH
Chlorobenzene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	40,000	Eco
Chloroethane	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	61,000,000	HH
Chloroform	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	410	HH
Chloromethane	5.30 U	5.20 U	5.30 U	5.10 U	5.40 U	5.30 U	300,000	HH
cis-1,2-Dichloroethene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	2,500,000	Eco
cis-1,3-Dichloropropene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	8,100	HH
Dibromochloromethane	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	34,000	HH
Dibromomethane	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	110,000	HH
Dichlorodifluoromethane	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	730,000	Eco
Dichloromethane (Methylene Chloride)	10.0 U	10.0 U	11.0 U	**12.0**	11.0 U	10.0 U	20,000	HH
Ethylbenzene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	2,260	Eco
Hexachlorobutadiene	5.30 U	5.20 U	5.30 U	5.10 U	5.40 U	5.30 U	22,000	HH
Isopropylbenzene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	2,260	Eco
m,p-Xylenes	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	120,000	Eco
Naphthalene	5.30 U	5.20 U	5.30 U	5.10 U	5.40 U	5.30 U	23,000	HH
n-Butylbenzene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	-	-
n-Propylbenzene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	2,260	Eco
o-Xylene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	1,000	Eco
sec-Butylbenzene	5.30 U	5.20 U	5.30 U	5.10 U	5.40 U	5.30 U	2,260	Eco
Styrene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	300,000	Eco
tert-Butylbenzene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	2,260	Eco
Tetrachloroethene (PCE)	2.10 U	2.10 U	**15.0**	**23.0**	**65.0**	2.10 U	1,600	HH
Toluene	2.10 U	2.10 U	2.10 U	2.00 U	**5.30**	2.10 U	200,000	Eco
trans-1,2-Dichloroethene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	200,000	HH
trans-1,3-Dichloropropene	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	8,100	HH
Trichloroethene (TCE)	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	130	HH
Trichlorofluoromethane	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	730,000	Eco
Vinyl Acetate	10.0 U	10.0 U	11.0 U	10.0 U	11.0 U	10.0 U	4,100,000	HH
Vinyl Chloride	2.10 U	2.10 U	2.10 U	2.00 U	2.20 U	2.10 U	2,200	HH

Notes:

µg/kg = microgram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-1b
1999/2000 Landfill Supplemental Site Inspection Soil Analytical Results
Volatile Organic Compounds
(Page 2 of 2)

Site ID	BIL09SSI	BIL10SSI	BIL11SSI	BIL12SSI	BIL13SSI*	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	990920BIL09SS	990920BIL10SS	990921BIL11SS	990921BIL12SS	000413BIL13SS		
Sample Date	9/20/1999	9/20/1999	9/21/1999	9/21/1999	4/13/2000		
Sample Depth (Feet bgs)	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5		
Volatile Organic Compounds (µg/kg dry)						--	--
1,1,1,2-Tetrachloroethane	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	9,300	HH
1,1,1-Trichloroethane (TCA)	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	38,000,000	HH
1,1,2,2-Tetrachloroethane	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	2,800	HH
1,1,2-Trichloroethane	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	2,700	HH
1,1-Dichloroethane	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	5,900	HH
1,1-Dichloroethene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	680,000	HH
1,1-Dichloropropene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	8,100	HH
1,2,3-Trichlorobenzene	5.30 U	5.30 U	5.60 U	5.30 U	100 UJ	20,000	Eco
1,2,3-Trichloropropane	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	95.0	HH
1,2,4-Trichlorobenzene	5.30 U	5.30 U	5.60 U	5.30 U	100 UJ	20,000	Eco
1,2,4-Trimethylbenzene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	200,000	Eco
1,2-Dibromo-3-chloropropane	5.30 U	5.30 U	5.60 U	5.30 U	500 UJ	69.0	HH
1,2-Dibromoethane (EDB)	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	140	HH
1,2-Dichlorobenzene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	2,260	Eco
1,2-Dichloroethane (EDC)	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	590	HH
1,2-Dichloropropane	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	4,500	HH
1,3,5-Trimethylbenzene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	150,000	HH
1,3-Dichlorobenzene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	2,260	Eco
1,3-Dichloropropane	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	20,000,000	HH
1,4-Dichlorobenzene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	17,000	HH
2,2-Dichloropropane	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	4,500	HH
2-Butanone (MEK)	11.0 U	11.0 U	11.0 U	10.0 U	1,000 UJ	200,000,000	HH
2-Chlorotoluene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	20,000,000	HH
2-Hexanone	11.0 U	11.0 U	11.0 U	10.0 U	1,000 UJ	1,250,000	Eco
4-Chlorotoluene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	72,000,000	HH
4-Isopropyltoluene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	200,000	Eco
4-Methyl-2-pentanone (MIBK)	11.0 U	11.0 U	11.0 U	10.0 U	1,000 UJ	1,250,000	Eco
Acetone	11.0 U	11.0 U	11.0 U	10.0 U	1,000 UJ	1,250,000	Eco
Benzene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	1,200	HH
Bromobenzene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	1,800,000	HH
Bromochloromethane	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	1,900	HH
Bromodichloromethane	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	1,900	HH
Bromoform	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	360,000	HH
Bromomethane	5.30 U	5.30 U	5.60 U	5.30 U	100 UJ	17,000	HH
Carbon Disulfide	11.0 U	11.0 U	11.0 U	10.0 U	100 UJ	1,000,000	Eco
Carbon Tetrachloride	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	630	HH
Chlorobenzene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	40,000	Eco
Chloroethane	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	61,000,000	HH
Chloroform	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	410	HH
Chloromethane	5.30 U	5.30 U	5.60 U	5.30 U	500 UJ	300,000	HH
cis-1,2-Dichloroethene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	2,500,000	Eco
cis-1,3-Dichloropropene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	8,100	HH
Dibromochloromethane	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	34,000	HH
Dibromomethane	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	110,000	HH
Dichlorodifluoromethane	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	730,000	Eco
Dichloromethane (Methylene Chloride)	11.0 U	11.0 U	11.0 U	10.0 U	1,000 UJ	20,000	HH
Ethylbenzene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	2,260	Eco
Hexachlorobutadiene	5.30 U	5.30 U	5.60 U	5.30 U	100 UJ	22,000	HH
Isopropylbenzene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	2,260	Eco
m,p-Xylenes	2.10 U	2.10 U	2.20 U	2.10 U	200 UJ	120,000	Eco
Naphthalene	5.30 U	5.30 U	5.60 U	5.30 U	100 UJ	23,000	HH
n-Butylbenzene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	-	-
n-Propylbenzene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	2,260	Eco
o-Xylene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	1,000	Eco
sec-Butylbenzene	5.30 U	5.30 U	5.60 U	5.30 U	100 UJ	2,260	Eco
Styrene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	300,000	Eco
tert-Butylbenzene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	2,260	Eco
Tetrachloroethene (PCE)	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	1,600	HH
Toluene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	200,000	Eco
trans-1,2-Dichloroethene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	200,000	HH
trans-1,3-Dichloropropene	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	8,100	HH
Trichloroethene (TCE)	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	130	HH
Trichlorofluoromethane	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	730,000	Eco
Vinyl Acetate	11.0 U	11.0 U	11.0 U	10.0 U	-	4,100,000	HH
Vinyl Chloride	2.10 U	2.10 U	2.20 U	2.10 U	100 UJ	2,200	HH

Notes:

µg/kg = microgram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-1c
1999/2000 Landfill Supplemental Site Inspection Soil Analytical Results
Semivolatile Organic Compounds
(Page 1 of 2)

Site ID	BIL01SSI	BIL02SSI	BIL03SSI	BIL04SSI	BIL05SSI	BIL06SSI*	BIL09SSI	BIL10SSI	BIL11SSI	BIL12SSI	BIL13SSI*	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	990920BIL01SS	990920BIL02SS	990920BIL03SS	990920BIL04SS	990920BIL05SS	990920BIL06SS	990920BIL09SS	990920BIL10SS	990921BIL11SS	990921BIL12SS	000413BIL13SS		
Sample Date	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/21/1999	9/21/1999	4/13/2000		
Sample Depth (Feet bgs)	0.0-0.33	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5		
Semivolatile Organic Compounds (µg/kg dry)													
1,2,4-Trichlorobenzene	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	20,000	Eco
1,2-Dichlorobenzene	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	2,260	Eco
1,3-Dichlorobenzene	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	2,260	Eco
1,4-Dichlorobenzene	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	17,000	HH
2,4,5-Trichlorophenol	880 U	860 U	880 U	860 U	900 U	880 U	880 U	880 U	930 U	880 U	49.8 U	4,000	Eco
2,4,6-Trichlorophenol	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	10,000	Eco
2,4-Dichlorophenol	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	20,000	Eco
2,4-Dimethylphenol	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	99.7 U	20,000	Eco
2,4-Dinitrophenol	880 U	860 U	880 U	860 U	900 U	880 U	880 U	880 U	930 U	880 U	249 UJ	20,000	Eco
2,4-Dinitrotoluene	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	249 UJ	5,500	HH
2,6-Dinitrotoluene	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	249 U	240,000	HH
2-Chloronaphthalene	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	82,000,000	HH
2-Chlorophenol	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	60,000	Eco
2-Methylphenol	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	50,000	Eco
2-Nitroaniline	880 U	860 U	880 U	860 U	900 U	880 U	880 U	880 U	930 U	880 U	249 U	6,000,000	HH
2-Nitrophenol	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 UJ	180,000,000	HH
3,3'-Dichlorobenzidine	350 U	340 U	350 U	680 U	350 U	350 U	350 U	350 U	370 U	350 U	2,490 UJ	4,800	HH
3-Nitroaniline	880 U	860 U	880 U	860 U	900 U	880 U	880 U	880 U	930 U	880 U	249 U	70,000	Eco
4,6-Dinitro-2-methylphenol	880 U	860 U	880 U	860 U	900 U	880 U	880 U	880 U	930 U	880 U	249 UJ	49,000	HH
4-Bromophenyl Phenyl Ether	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	-	-
4-Chloro-3-methylphenol	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	62,000,000	HH
4-Chloroaniline	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	249 UJ	8,600	HH
4-Chlorophenyl Phenyl Ether	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	-	-
4-Nitroaniline	880 U	860 U	880 U	860 U	900 U	880 U	880 U	880 U	930 U	880 U	249 U	40,000	Eco
4-Nitrophenol	880 U	860 U	880 U	860 U	900 U	880 U	880 U	880 U	930 U	880 U	249 U	7,000	Eco
Aniline	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	200,000	Eco
Benzidine	1,800 U	1,700 U	1,800 U	1,700 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	1,800 U	-	55,000	HH
Benzoic Acid	880 U	860 U	880 U	**34.0 J**	900 U	**32.0 J**	**20.0 J**	880 U	930 U	880 U	**300**	200,000	Eco
Benzyl Alcohol	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	2,260	Eco
Bis(2-chloroethoxy)methane	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	730,000	Eco
Bis(2-chloroethyl) Ether	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	1,000	HH
Bis(2-chloroisopropyl) Ether	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	1,000	HH
Bis(2-ethylhexyl) Phthalate	**150 J**	**430**	**330**	**21,000**	**5,100**	**825 J**	**180**	**770**	**760**	**1,900**	50.0 U	4,500	Eco
Butyl Benzyl Phthalate	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	**22.0 J**	180 U	49.8 U	450	Eco
Carbazole	180 U	170 U	**56.0 J**	**1,300**	**220**	**144 J**	180 U	180 U	**27.0 J**	180 U	49.8 UJ	2,260	Eco
Dibenzofuran	180 U	170 U	180 U	**380**	**76.0 J**	**140 J**	180 U	180 U	**20.0 J**	180 U	49.8 U	2.00	Eco
Diethyl Phthalate	180 U	170 U	180 U	**50.0 J**	**44.0 J**	180 U	180 U	180 U	190 U	180 U	49.8 U	100,000	Eco
Dimethyl Phthalate	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	150,000	HH
Di-n-butyl Phthalate	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	450	Eco
Di-n-octyl Phthalate	180 U	170 U	180 U	170 U	730 U	180 U	180 U	180 U	190 U	180 U	49.8 U	450	Eco
Hexachlorobenzene	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	1,800	HH
Hexachlorobutadiene	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	22,000	HH
Hexachlorocyclopentadiene	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	249 UJ	10,000	Eco
Hexachloroethane	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	150,000	HH
Isophorone	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	1,800,000	HH
Nitrobenzene	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	8,000	Eco
N-Nitrosodimethylamine	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	-	34.0	HH
N-Nitrosodi-n-propylamine	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	250	HH
N-Nitrosodiphenylamine	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	20,000	Eco
p-cresol (4-Methylphenol)	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	50,000	Eco
Pentachlorophenol	880 U	860 U	880 U	860 U	900 U	880 U	880 U	880 U	**72.0 J**	880 U	249 U	2,100	Eco
Phenol	180 U	170 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U	180 U	49.8 U	30,000	Eco

Table 5-1c
1999/2000 Landfill Supplemental Site Inspection Soil Analytical Results
Semivolatile Organic Compounds
(Page 2 of 2)

Site ID	BIL01SSI	BIL02SSI	BIL03SSI	BIL04SSI	BIL05SSI	BIL06SSI*	BIL09SSI	BIL10SSI	BIL11SSI	BIL12SSI	BIL13SSI*	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	990920BIL01SS	990920BIL02SS	990920BIL03SS	990920BIL04SS	990920BIL05SS	990920BIL06SS	990920BIL09SS	990920BIL10SS	990921BIL11SS	990921BIL12SS	000413BIL13SS		
Sample Date	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/20/1999	9/21/1999	9/21/1999	4/13/2000		
Sample Depth (Feet bgs)	0.0-0.33	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5		
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)													
2-Methylnaphthalene	180 U	170 U	180 U	**57.0 J**	180 U	**76.0 J**	180 U	180 U	190 U	180 U	49.8 U	4,100,000	HH
Acenaphthene	180 U	**42.0 J**	**53.0 J**	**2,600 J**	**500**	**171 J**	180 U	180 U	**140 J**	180 U	49.8 U	19,000,000	HH
Acenaphthylene	180 U	170 U	180 U	**74.0 J**	180 U	**22.0 J**	180 U	180 U	190 U	180 U	49.8 U	23,000	HH
Anthracene	**12.0 J**	**18.0 J**	**110 J**	**2,700**	**460**	**177 J**	180 U	180 U	**100 J**	180 U	49.8 U	93,000,000	HH
Fluorene	180 U	170 U	**47.0 J**	**1,200**	**170 J**	**145 J**	180 U	180 U	**67.0 J**	180 U	49.8 U	12,000,000	HH
Naphthalene	180 U	170 U	180 U	**100 J**	**19.0 J**	**360**	180 U	180 U	190 U	180 U	49.8 U	23,000	HH
Phenanthrene	**39.0 J**	**68.0 J**	**300**	**12,000**	**1,900**	**1,230**	**40.0 J**	**36.0 J**	**370**	**13.0 J**	49.8 U	93,000,000	HH
Total LPAHs (KM, capped; NDs at MDL)	**153 J**	**256 J**	**650 J**	**18,674 J**	**3,143 J**	**2,105 J**	**940 J**	**936 J**	**881 J**	**913 J**	299 U	29,000	Eco
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)													
Benzo(a)anthracene	**98.0 J**	**130 J**	**1,600**	**32,000**	**2,200**	**1,400 J**	**82.0 J**	**60.0 J**	**400**	**29.0 J**	49.8 U	2,700	HH
Benzo(a)pyrene	**140 J**	**160 J**	**1,800**	**33,000**	**2,200**	**1,400 J**	**100 J**	**70.0 J**	**420**	**28.0 J**	49.8 U	270	HH
Benzo(b)fluoranthene	**110 J**	**170 J**	**2,000**	**65,000**	**340 J**	**2,350**	**82.0 J**	**58.0 J**	**66.0 J**	**34.0 J**	49.8 U	2,700	HH
Benzo(g,h,i)perylene	**71.0 J**	**150 J**	**790**	**18,000**	**1,800**	**1,250 J**	**82.0 J**	**51.0 J**	**290**	**20.0 J**	49.8 U	27,000	HH
Benzo(k)fluoranthene	**110 J**	**100 J**	**1,000**	**65,000**	**340 J**	**2,350**	**89.0 J**	**64.0 J**	**66.0 J**	**40.0 J**	49.8 U	27,000	HH
Chrysene	**120 J**	**160 J**	**1,600**	**32,000**	**1,700**	**1,650 J**	**100 J**	**79.0 J**	**420**	**62.0 J**	49.8 U	270,000	HH
Dibenz(a,h)anthracene	**37.0 J**	170 U	**450**	**9,900**	**540 J**	1,800 U	**32.0 J**	**24.0 J**	**150 J**	**18.0 J**	49.8 U	270	HH
Fluoranthene	**130 J**	**160 J**	**1,600**	**54,000**	**3,300**	**795**	**120 J**	**88.0 J**	**700**	**42.0 J**	49.8 U	8,900,000	HH
Indeno(1,2,3-cd)pyrene	**73.0 J**	**130 J**	**820**	**19,000**	**1,700**	**1,175 J**	**74.0 J**	**48.0 J**	**300**	**18.0 J**	49.8 U	2,700	HH
Pyrene	**160 J**	**210**	**1,400**	**40,000**	**3,200**	**2,500 J**	**130 J**	**98.0 J**	**640**	**43.0 J**	49.8 UJ	6,700,000	HH
Total HPAHs (KM, capped; NDs at MDL)	**1,049 J**	**1,511 J**	**13,060**	**367,900**	**17,320 J**	**16,150 J**	**891 J**	**640 J**	**3,452 J**	**334 J**	498 UJ	1,100	Eco

Notes:

µg/kg = microgram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table 5-1d
1999/2000 Landfill Supplemental Site Inspection Groundwater Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, Herbicides, and Pesticides
(Page 1 of 4)

Site ID	MW-01	MW-01	MW-01	MW-02	MW-02	MW-02	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	990713BIL08GW	991108BIL14GW	000110BIL20GW	990712BIL07GW	991108BIL12GW	000110BIL15GW				
Sample Date	7/13/1999	11/8/1999	1/10/2000	7/12/1999	11/8/1999	1/10/2000				
Sample Depth (Feet btc)	27.5	27.5	27.5	29.56	29.56	29.56				
Medium	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater				
Total PCB Aroclors (µg/L)										
Aroclor 1016	0.960 U	0.960 U	1.00 U	0.940 U	0.950 UJ	1.00 U	0.0000640	HH	0.0140	Eco
Aroclor 1221	0.960 U	0.960 U	1.00 U	0.940 U	0.950 UJ	1.00 U	0.0000640	HH	0.00680	HH
Aroclor 1232	0.960 U	0.960 U	1.00 U	0.940 U	0.950 UJ	1.00 U	0.0000640	HH	0.00680	HH
Aroclor 1242	0.960 U	0.960 U	1.00 U	0.940 U	0.950 UJ	1.00 U	0.0000640	HH	0.0140	Eco
Aroclor 1248	0.960 U	0.960 U	1.00 U	0.940 U	0.950 UJ	1.00 U	0.0000640	HH	0.0140	Eco
Aroclor 1254	0.960 U	0.960 U	1.00 U	0.940 U	0.950 UJ	1.00 U	0.0000640	HH	0.0140	Eco
Aroclor 1260	0.960 U	0.960 U	1.00 U	0.940 U	0.950 UJ	1.00 U	0.0000640	HH	0.0140	Eco
Total Metals (µg/L)										
Antimony	-	50.0 U	50.0 U	-	50.0 U	50.0 U	5.60	HH	15.0	HH
Arsenic	-	**15.4**	**16.2**	-	**6.00**	**7.00**	0.0180	HH	0.0380	HH
Barium	-	**33.5**	**33.1**	-	**45.7**	**42.6**	1,000	HH	7,300	HH
Beryllium	-	5.00 U	5.00 U	-	5.00 U	5.00 U	--	--	73.0	HH
Cadmium	-	5.00 U	5.00 U	-	5.00 U	5.00 U	--	--	18.0	HH
Chromium	-	10.0 U	10.0 U	-	10.0 U	10.0 U	--	--	55,000	HH
Copper	-	10.0 U	10.0 U	-	10.0 U	10.0 U	1,300	HH	1,500	HH
Iron	-	**73.7**	**66.0**	-	**508**	**238**	300	HH	26,000	HH
Lead	-	3.00 U	3.00 U	-	3.00 U	3.00 U	--	--	15.0	HH
Manganese	-	**25.5**	**14.0**	-	**39.3**	**14.6**	50.0	HH	880	HH
Mercury	-	0.200 U	**0.330**	-	0.200 U	0.200 U	--	--	11.0	HH
Nickel	-	10.0 U	10.0 U	-	10.0 U	10.0 U	610	HH	730	HH
Selenium	-	**32.9**	**28.6**	-	5.00 U	5.00 U	170	HH	180	HH
Silver	-	10.0 U	10.0 U	-	10.0 U	10.0 U	--	--	180	HH
Thallium	-	5.00 U	5.00 U	-	5.00 U	5.00 U	0.240	HH	2.00	HH
Zinc	-	**16.8**	**19.5**	-	10.0 U	10.0 U	7,400	HH	11,000	HH
Dissolved Metals (µg/L)										
Antimony	-	-	-	50.0 U	-	-	5.60	HH	15.0	HH
Arsenic	-	-	-	**6.80**	-	-	0.0180	HH	0.0380	HH
Barium	-	-	-	**37.5**	-	-	4.00	Eco	4.00	Eco
Beryllium	-	-	-	5.00 U	-	-	5.30	Eco	5.30	Eco
Cadmium	-	-	-	5.00 U	-	-	0.250	Eco	0.250	Eco
Chromium	-	-	-	10.0 U	-	-	74.0	Eco	74.0	Eco
Copper	-	-	-	10.0 U	-	-	9.00	Eco	9.00	Eco
Iron	-	-	-	**188**	-	-	300	HH	1,000	Eco
Lead	-	-	-	3.00 U	-	-	2.50	Eco	2.50	Eco
Manganese	-	-	-	**14.2**	-	-	50.0	HH	120	Eco
Mercury	-	-	-	0.200 U	-	-	0.770	Eco	0.770	Eco
Nickel	-	-	-	10.0 U	-	-	52.0	Eco	52.0	Eco
Selenium	-	-	-	5.00 U	-	-	5.00	Eco	5.00	Eco
Silver	-	-	-	10.0 U	-	-	0.120	Eco	0.120	Eco
Thallium	-	-	-	5.00 U	-	-	0.240	HH	2.00	HH
Zinc	-	-	-	10.0 U	-	-	120	Eco	120	Eco

Table 5-1d
1999/2000 Landfill Supplemental Site Inspection Groundwater Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, Herbicides, and Pesticides
(Page 2 of 4)

Site ID	MW-01	MW-01	MW-01	MW-02	MW-02	MW-02	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	990713BIL08GW	991108BIL14GW	000110BIL20GW	990712BIL07GW	991108BIL12GW	000110BIL15GW				
Sample Date	7/13/1999	11/8/1999	1/10/2000	7/12/1999	11/8/1999	1/10/2000				
Sample Depth (Feet btc)	27.5	27.5	27.5	29.56	29.56	29.56				
Medium	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater				
Total Petroleum Hydrocarbons (µg/L)										
Diesel Range Organics	240 U	**340**	**280**	240 U	240 U	250 U	--	--	90.0	HH
Residual Range Organics	710 U	**840**	750 U	710 U	710 U	750 U	--	--	290	HH
Gasoline Range Organics	100 U	100 U	100 U	100 U	100 U	100 U	--	--	100	HH
Total Herbicides (µg/L)										
2,4,5-T	-	0.100 U	0.150 U	0.150 U	0.100 U	0.150 U	36.0	Eco	36.0	Eco
2,4,5-TP (Silvex)	-	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	--	--	290	HH
2,4-D	-	0.250 U	1.00 U	1.00 U	0.250 U	1.00 U	4.00	Eco	4.00	Eco
2,4-DB	-	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	--	--	290	HH
Dalapon	-	0.500 U	2.00 U	2.00 U	0.500 U	2.00 U	--	--	1,100	HH
Dicamba	-	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	10.0	Eco	10.0	Eco
Dichloroprop	-	0.250 U	0.250 U	1.00 U	0.250 U	0.250 U	4.00	Eco	4.00	Eco
Dinoseb	-	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.0500	Eco	0.0500	Eco
MCPA	-	10.0 U	50.0 U	50.0 U	10.0 U	50.0 U	2.60	Eco	2.60	Eco
MCPP	-	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	--	--	37.0	HH
Total Pesticides (µg/L)										
4,4'-DDD	0.0960 U	0.0960 U	0.100 U	0.0940 U	0.0950 UJ	0.100 U	0.000310	HH	0.00100	Eco
4,4'-DDE	0.0960 U	0.0960 U	0.100 U	0.0940 U	0.0950 UJ	0.100 U	0.000220	HH	0.00100	Eco
4,4'-DDT	0.0960 U	0.0960 U	0.100 U	0.0940 U	0.0950 UJ	0.100 U	0.000220	HH	0.00100	Eco
Aldrin	0.0480 U	0.0480 U	0.0500 U	0.0470 U	0.0480 UJ	0.0500 U	0.0000490	HH	0.00330	HH
BHC (alpha)	0.0480 U	0.0480 U	0.0500 U	0.0470 U	0.0480 UJ	0.0500 U	0.00260	HH	0.00900	HH
BHC (beta)	0.0480 U	0.0480 U	0.0500 U	0.0470 U	0.0480 UJ	0.0500 U	0.00910	HH	0.0370	HH
BHC (delta)	0.0480 U	0.0480 U	0.0500 U	0.0470 U	0.0480 UJ	0.0500 U	0.00260	HH	0.00900	HH
BHC (gamma) Lindane	0.0480 U	0.0480 U	0.0500 U	0.0470 U	0.0480 UJ	0.0500 U	0.0800	Eco	0.0520	HH
Chlordane (alpha)	0.0480 U	0.0480 U	0.0500 U	0.0470 U	0.0480 UJ	0.0500 U	0.000800	HH	0.00430	Eco
Chlordane (gamma)	0.0480 U	0.0480 U	0.0500 U	0.0470 U	0.0480 UJ	0.0500 U	0.000800	HH	0.00430	Eco
Dieldrin	0.0960 U	0.0960 U	0.100 U	0.0940 U	0.0950 UJ	0.100 U	0.0000520	HH	0.00350	HH
Endosulfan I	0.0480 U	0.0480 U	0.0500 U	0.0470 U	0.0480 UJ	0.0500 U	0.0560	Eco	0.0560	Eco
Endosulfan II	0.0960 U	0.0960 U	0.100 U	0.0940 U	0.0950 UJ	0.100 U	0.0560	Eco	0.0560	Eco
Endosulfan Sulfate	0.0960 U	0.0960 U	0.100 U	0.0940 U	0.0950 UJ	0.100 U	0.0510	Eco	0.0510	Eco
Endrin	0.0960 U	0.0960 U	0.100 U	0.0940 U	0.0950 UJ	0.100 U	0.0360	Eco	0.0360	Eco
Endrin Aldehyde	0.0960 U	0.0960 U	0.100 U	0.0940 U	0.0950 UJ	0.100 U	0.150	Eco	0.150	Eco
Endrin Ketone	0.0960 U	0.0960 U	0.100 U	0.0940 U	0.0950 UJ	0.100 U	0.0590	HH	11.0	HH
Heptachlor	0.0480 U	0.0480 U	0.0500 U	0.0470 U	0.0480 UJ	0.0500 U	0.0000790	HH	0.00380	Eco
Heptachlor Epoxide	0.0480 U	0.0480 U	0.0500 U	0.0470 U	0.0480 UJ	0.0500 U	0.0000390	HH	0.00380	Eco
Methoxychlor	0.480 U	0.480 U	0.500 U	0.470 U	0.480 UJ	0.500 U	0.0300	Eco	0.0300	Eco
Toxaphene	0.960 U	0.960 U	1.00 U	0.940 U	0.950 UJ	1.00 U	0.000280	HH	0.00200	Eco

Notes:

µg/L = microgram per liter
mg/L = milligram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed

-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-1d
1999/2000 Landfill Supplemental Site Inspection Groundwater Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, Herbicides, and Pesticides
(Page 3 of 4)

Site ID	MW-03	MW-03	MW-03	MW-04*	MW-04*	MW-04*	MW-05	MW-05	SEEP*	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	990712BIL06GW	991108BIL11GW	000110BIL18GW	990712BIL01GW	991108BIL09GW	000110BIL16GW	991108BIL13GW	000110BIL19GW	000413BIL21GW				
Sample Date	7/12/1999	11/8/1999	1/10/2000	7/12/1999	11/8/1999	1/10/2000	11/8/1999	1/10/2000	4/13/2000				
Sample Depth (Feet btc)	18.21	18.21	18.21	20.29	20.29	20.29	24.87	24.87	0.0				
Medium	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Seep Water				
Total PCB Aroclors (µg/L)													
Aroclor 1016	0.940 U	0.940 UJ	1.00 U	0.940 U	0.950 U	1.00 U	0.940 U	1.00 UJ	0.100 U	0.0000640	HH	0.0140	Eco
Aroclor 1221	0.940 U	0.940 UJ	1.00 U	0.940 U	0.950 U	1.00 U	0.940 U	1.00 UJ	0.100 U	0.0000640	HH	0.00680	HH
Aroclor 1232	0.940 U	0.940 UJ	1.00 U	0.940 U	0.950 U	1.00 U	0.940 U	1.00 UJ	0.100 U	0.0000640	HH	0.00680	HH
Aroclor 1242	0.940 U	0.940 UJ	1.00 U	0.940 U	0.950 U	1.00 U	0.940 U	1.00 UJ	0.100 U	0.0000640	HH	0.0140	Eco
Aroclor 1248	0.940 U	0.940 UJ	1.00 U	0.940 U	0.950 U	1.00 U	0.940 U	1.00 UJ	0.100 U	0.0000640	HH	0.0140	Eco
Aroclor 1254	0.940 U	0.940 UJ	1.00 U	0.940 U	0.950 U	1.00 U	0.940 U	1.00 UJ	0.100 U	0.0000640	HH	0.0140	Eco
Aroclor 1260	0.940 U	0.940 UJ	1.00 U	0.940 U	0.950 U	1.00 U	0.940 U	1.00 UJ	0.100 U	0.0000640	HH	0.0140	Eco
Total Metals (µg/L)													
Antimony	-	50.0 U	50.0 U	-	50.0 U	50.0 U	50.0 U	50.0 U	1.00 U	5.60	HH	15.0	HH
Arsenic	-	5.00 U	5.00 U	-	5.00 U	5.00 U	5.00 U	5.00 U	**1.04**	0.0180	HH	0.0380	HH
Barium	-	**15.7**	**10.8**	-	**290**	**238**	**164**	**126**	**74.2**	1,000	HH	7,300	HH
Beryllium	-	5.00 U	5.00 U	-	5.00 U	5.00 U	5.00 U	5.00 U	1.00 U	--	--	73.0	HH
Cadmium	-	5.00 U	5.00 U	-	**5.60**	5.00 U	5.00 U	5.00 U	1.00 U	--	--	18.0	HH
Chromium	-	10.0 U	10.0 U	-	10.0 U	10.0 U	10.0 U	10.0 U	**1.05**	--	--	55,000	HH
Copper	-	10.0 U	10.0 U	-	**17.6**	**45.2**	10.0 U	10.0 U	**2.72**	1,300	HH	1,500	HH
Iron	-	**119**	**53.1**	-	**9,755**	**157**	**32,800**	**25,400**	**8,195**	300	HH	26,000	HH
Lead	-	3.00 U	3.00 U	-	3.00 U	3.00 U	3.00 U	3.00 U	1.00 U	--	--	15.0	HH
Manganese	-	**23.2**	10.0 U	-	**1,380**	**194**	**4,110**	**3,300**	**1,475**	50.0	HH	880	HH
Mercury	-	0.200 U	**0.200**	-	0.200 U	0.200 U	0.200 U	0.200 U	1.00 U	--	--	11.0	HH
Nickel	-	10.0 U	10.0 U	-	**110**	**112**	10.0 U	10.0 U	**2.32**	610	HH	730	HH
Selenium	-	5.00 U	5.00 U	-	5.00 U	5.00 U	5.00 U	5.00 U	**1.11**	170	HH	180	HH
Silver	-	10.0 U	10.0 U	-	10.0 U	10.0 U	10.0 U	10.0 U	1.00 U	--	--	180	HH
Thallium	-	5.00 U	5.00 U	-	5.00 U	5.00 U	5.00 U	5.00 U	1.00 U	0.240	HH	2.00	HH
Zinc	-	10.0 U	10.0 U	-	**2,655**	**1,500**	**18.7**	**15.8**	10.0 U	7,400	HH	11,000	HH
Dissolved Metals (µg/L)													
Antimony	50.0 U	-	-	50.0 U	-	-	-	-	**2.28**	5.60	HH	15.0	HH
Arsenic	5.00 U	-	-	5.00 U	-	-	-	-	1.00 U	0.0180	HH	0.0380	HH
Barium	**21.2**	-	-	**134**	-	-	-	-	**277**	4.00	Eco	4.00	Eco
Beryllium	5.00 U	-	-	5.00 U	-	-	-	-	1.00 U	5.30	Eco	5.30	Eco
Cadmium	5.00 U	-	-	5.00 U	-	-	-	-	1.00 U	0.250	Eco	0.250	Eco
Chromium	10.0 U	-	-	10.0 U	-	-	-	-	1.00 U	74.0	Eco	74.0	Eco
Copper	10.0 U	-	-	10.0 U	-	-	-	-	**1.09**	9.00	Eco	9.00	Eco
Iron	50.0 U	-	-	**3,615**	-	-	-	-	**3,210**	300	HH	1,000	Eco
Lead	3.00 U	-	-	3.00 U	-	-	-	-	1.00 U	2.50	Eco	2.50	Eco
Manganese	**12.0**	-	-	**1,325**	-	-	-	-	**1,480 J**	50.0	HH	120	Eco
Mercury	0.200 U	-	-	0.200 U	-	-	-	-	1.00 U	0.770	Eco	0.770	Eco
Nickel	10.0 U	-	-	**18.7**	-	-	-	-	**2.22**	52.0	Eco	52.0	Eco
Selenium	5.00 U	-	-	5.00 U	-	-	-	-	1.00 U	5.00	Eco	5.00	Eco
Silver	10.0 U	-	-	10.0 U	-	-	-	-	1.00 U	0.120	Eco	0.120	Eco
Thallium	5.00 U	-	-	5.00 U	-	-	-	-	1.00 U	0.240	HH	2.00	HH
Zinc	10.0 U	-	-	**197**	-	-	-	-	**85.6**	120	Eco	120	Eco

Table 5-1d
1999/2000 Landfill Supplemental Site Inspection Groundwater Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, Herbicides, and Pesticides
(Page 4 of 4)

Site ID	MW-03	MW-03	MW-03	MW-04*	MW-04*	MW-04*	MW-05	MW-05	SEEP*	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	990712BIL06GW	991108BIL11GW	000110BIL18GW	990712BIL01GW	991108BIL09GW	000110BIL16GW	991108BIL13GW	000110BIL19GW	000413BIL21GW				
Sample Date	7/12/1999	11/8/1999	1/10/2000	7/12/1999	11/8/1999	1/10/2000	11/8/1999	1/10/2000	4/13/2000				
Sample Depth (Feet btc)	18.21	18.21	18.21	20.29	20.29	20.29	24.87	24.87	0.0				
Medium	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Seep Water				
Total Petroleum Hydrocarbons (µg/L)													
Diesel Range Organics	240 U	240 U	250 U	240 U	**295**	**305**	**1,800**	**1,100**	250 U	--	--	90.0	HH
Residual Range Organics	710 U	710 U	750 U	710 U	710 U	750 U	**1,900**	750 U	500 U	--	--	290	HH
Gasoline Range Organics	100 U	100 U	100 U	100 U	100 U	100 U	**300**	**430**	250 U	--	--	100	HH
Total Herbicides (µg/L)													
2,4,5-T	0.150 U	0.100 U	0.150 U	0.150 U	0.100 U	0.150 U	0.100 U	0.150 U	0.400 U	36.0	Eco	36.0	Eco
2,4,5-TP (Silvex)	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.400 U	--	--	290	HH
2,4-D	1.00 U	0.250 U	1.00 U	1.00 U	0.250 U	1.00 U	0.250 U	1.00 U	0.400 U	4.00	Eco	4.00	Eco
2,4-DB	1.00 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.400 U	--	--	290	HH
Dalapon	2.00 U	0.500 U	2.00 U	2.00 U	0.500 U	2.00 U	0.500 U	2.00 U	0.400 U	--	--	1,100	HH
Dicamba	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.400 U	10.0	Eco	10.0	Eco
Dichloroprop	1.00 U	0.250 U	0.250 U	1.00 U	0.250 U	0.250 U	**1.10**	0.250 U	0.400 U	4.00	Eco	4.00	Eco
Dinoseb	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.400 U	0.0500	Eco	0.0500	Eco
MCPA	50.0 U	10.0 U	50.0 U	50.0 U	10.0 U	50.0 U	10.0 U	50.0 U	100 U	2.60	Eco	2.60	Eco
MCPP	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	100 U	--	--	37.0	HH
Total Pesticides (µg/L)													
4,4'-DDD	0.0940 U	0.0940 UJ	0.100 U	0.0940 U	0.0950 UJ	0.100 U	0.0940 U	0.100 UJ	0.0400 U	0.000310	HH	0.00100	Eco
4,4'-DDE	0.0940 U	0.0940 UJ	0.100 U	0.0940 U	0.0950 UJ	0.100 U	0.0940 U	0.100 UJ	0.0300 U	0.000220	HH	0.00100	Eco
4,4'-DDT	0.0940 U	0.0940 UJ	0.100 U	0.0940 U	0.0950 UJ	0.100 U	0.0940 U	0.100 UJ	0.0900 U	0.000220	HH	0.00100	Eco
Aldrin	0.0470 U	0.0470 UJ	0.0500 U	0.0470 U	0.0480 UJ	0.0500 U	0.0470 U	0.0500 UJ	0.0400 U	0.0000490	HH	0.00330	HH
BHC (alpha)	0.0470 U	0.0470 UJ	0.0500 U	0.0470 U	0.0480 UJ	0.0500 U	0.0470 U	0.0500 UJ	0.0200 U	0.00260	HH	0.00900	HH
BHC (beta)	0.0470 U	0.0470 UJ	0.0500 U	0.0470 U	0.0480 UJ	0.0500 U	0.0470 U	0.0500 UJ	0.100 U	0.00910	HH	0.0370	HH
BHC (delta)	0.0470 U	0.0470 UJ	0.0500 U	0.0470 U	0.0480 UJ	0.0500 U	0.0470 U	0.0500 UJ	0.0500 U	0.00260	HH	0.00900	HH
BHC (gamma) Lindane	0.0470 U	0.0470 UJ	0.0500 U	0.0470 U	0.0480 UJ	0.0500 U	0.0470 U	0.0500 UJ	0.0300 U	0.0800	Eco	0.0520	HH
Chlordane (alpha)	0.0470 U	0.0470 UJ	0.0500 U	0.0470 U	0.0480 UJ	0.0500 U	0.0470 U	0.0500 UJ	0.0500 U	0.000800	HH	0.00430	Eco
Chlordane (gamma)	0.0470 U	0.0470 UJ	0.0500 U	0.0470 U	0.0480 UJ	0.0500 U	0.0470 U	0.0500 UJ	0.0200 U	0.000800	HH	0.00430	Eco
Dieldrin	0.0940 U	0.0940 UJ	0.100 U	0.0940 U	0.0950 UJ	0.100 U	0.0940 U	0.100 UJ	0.0700 U	0.0000520	HH	0.00350	HH
Endosulfan I	0.0470 U	0.0470 UJ	0.0500 U	0.0470 U	0.0480 UJ	0.0500 U	0.0470 U	0.0500 UJ	0.0300 U	0.0560	Eco	0.0560	Eco
Endosulfan II	0.0940 U	0.0940 UJ	0.100 U	0.0940 U	0.0950 UJ	0.100 U	0.0940 U	0.100 UJ	0.0500 U	0.0560	Eco	0.0560	Eco
Endosulfan Sulfate	0.0940 U	0.0940 UJ	0.100 U	0.0940 U	0.0950 UJ	0.100 U	0.0940 U	0.100 UJ	0.0700 U	0.0510	Eco	0.0510	Eco
Endrin	0.0940 U	0.0940 UJ	0.100 U	0.0940 U	0.0950 UJ	0.100 U	0.0940 U	0.100 UJ	0.0800 U	0.0360	Eco	0.0360	Eco
Endrin Aldehyde	0.0940 U	0.0940 UJ	0.100 U	0.0940 U	0.0950 UJ	0.100 U	0.0940 U	0.100 UJ	0.100 U	0.150	Eco	0.150	Eco
Endrin Ketone	0.0940 U	0.0940 UJ	0.100 U	0.0940 U	0.0950 UJ	0.100 U	0.0940 U	0.100 UJ	-	0.0590	HH	11.0	HH
Heptachlor	0.0470 U	0.0470 UJ	0.0500 U	0.0470 U	0.0480 UJ	0.0500 U	0.0470 U	0.0500 UJ	0.0300 U	0.0000790	HH	0.00380	Eco
Heptachlor Epoxide	0.0470 U	0.0470 UJ	0.0500 U	0.0470 U	0.0480 UJ	0.0500 U	0.0470 U	0.0500 UJ	0.0300 U	0.0000390	HH	0.00380	Eco
Methoxychlor	0.470 U	0.470 UJ	0.500 U	0.470 U	0.480 UJ	0.500 U	0.470 U	0.500 UJ	0.500 U	0.0300	Eco	0.0300	Eco
Toxaphene	0.940 U	0.940 UJ	1.00 U	0.940 U	0.950 UJ	1.00 U	0.940 U	1.00 UJ	1.50 U	0.000280	HH	0.00200	Eco

Notes:

µg/L = microgram per liter
mg/L = milligram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed

-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-1e
1999/2000 Landfill Supplemental Site Inspection Groundwater Analytical Results
Volatile Organic Compounds
(Page 1 of 2)

Site ID	MW-01	MW-01	MW-01	MW-02	MW-02	MW-02	MW-03	MW-03	MW-03	MW-04*	MW-04*	MW-04*	MW-05	MW-05	SEEP*	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	990713BIL08GW	991108BIL14GW	000110BIL20GW	990712BIL07GW	991108BIL12GW	000110BIL15GW	990712BIL06GW	991108BIL11GW	000110BIL18GW	990712BIL01GW	991108BIL09GW	000110BIL16GW	991108BIL13GW	000110BIL19GW	000413BIL21GW				
Sample Date	7/13/1999	11/8/1999	1/10/2000	7/12/1999	11/8/1999	1/10/2000	7/12/1999	11/8/1999	1/10/2000	7/12/1999	11/8/1999	1/10/2000	11/8/1999	1/10/2000	4/13/2000				
Sample Depth (Feet btc)	27.5	27.5	27.5	29.56	29.56	29.56	18.21	18.21	18.21	20.29	20.29	20.29	24.87	24.87	0.0				
Medium	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Seep Water				
Total Volatile Organic Compounds (µg/L)																			
1,1,1,2-Tetrachloroethane	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	186	Eco	0.520	HH
1,1,1-Trichloroethane (TCA)	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	11.0	Eco	11.0	Eco
1,1,2,2-Tetrachloroethane	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	0.170	HH	0.0670	HH
1,1,2-Trichloroethane	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	0.590	HH	0.230	HH
1,1-Dichloroethane	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	47.0	Eco	2.30	HH
1,1-Dichloroethene	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	25.0	Eco	25.0	Eco
1,1-Dichloropropene	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	0.430	HH
1,2,3-Trichlorobenzene	5.00 U	-	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	1.00 U	8.00	Eco	2.30	HH
1,2,3-Trichloropropane	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	0.000720	HH
1,2,4-Trichlorobenzene	5.00 U	-	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	1.00 U	5.00 U	1.00 U	35.0	HH	2.30	HH
1,2,4-Trimethylbenzene	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**5.20**	**1.00**	1.00 U	7.30	Eco	7.30	Eco
1,2-Dibromo-3-chloropropane	3.00 U	-	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	5.00 U	--	--	0.000320	HH
1,2-Dibromoethane (EDB)	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	0.00630	HH
1,2-Dichlorobenzene	2.00 U	-	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1.00 U	14.0	Eco	14.0	Eco
1,2-Dichloroethane (EDC)	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	0.380	HH	0.140	HH
1,2-Dichloropropane	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	0.500	HH	0.390	HH
1,3,5-Trimethylbenzene	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	7.30	Eco	7.30	Eco
1,3-Dichlorobenzene	2.00 U	-	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1.00 U	71.0	Eco	0.420	HH
1,3-Dichloropropane	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5,700	Eco	730	HH
1,4-Dichlorobenzene	2.00 U	-	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1.00 U	15.0	Eco	0.420	HH
2,2-Dichloropropane	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	0.500	HH	0.390	HH
2-Butanone (MEK)	10.0 U	-	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	14,000	Eco	7,100	HH
2-Chloroethylvinylethe	10.0 U	-	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	-	4,760	Eco	4,760	Eco
2-Chlorotoluene	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	730	HH
2-Hexanone	10.0 U	-	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	99.0	Eco	47.0	HH
4-Chlorotoluene	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	2,600	HH
4-Isopropyltoluene	2.00 U	-	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1.00 U	--	--	--	--
4-Methyl-2-pentanone (MIBK	10.0 U	-	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	170	Eco	170	Eco
Acetone	10.0 U	-	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	1,500	Eco	1,500	Eco
Benzene	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	2.20	HH	0.390	HH
Bromobenzene	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	88.0	HH
Bromochloromethane	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	0.550	HH	0.120	HH
Bromodichloromethane	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	0.550	HH	0.120	HH
Bromoform	3.00 U	-	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	1.00 U	4.30	HH	7.20	HH
Bromomethane	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	16.0	Eco	8.70	HH
Carbon Disulfide	10.0 U	-	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	1.00 U	0.920	Eco	0.920	Eco
Carbon Tetrachloride	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**1.40**	1.00 U	1.00 U	1.00 U	0.230	HH	0.190	HH
Chlorobenzene	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	50.0	Eco	50.0	Eco
Chloroethane	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	21,000	HH
Chloroform	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**3.65**	1.00 U	1.00 U	1.00 U	5.70	HH	0.190	HH
Chloromethane	5.00 U	-	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	--	--	190	HH
cis-1,2-Dichloroethene	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	590	Eco	360	HH
cis-1,3-Dichloropropene	3.00 U	-	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	1.00 U	0.0550	Eco	0.0550	Eco
Dibromochloromethane	2.00 U	-	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1.00 U	0.400	HH	0.680	HH
Dibromomethane	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	8.20	HH
Dichlorodifluoromethane	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	390	HH
Dichloromethane (Methylene Chloride	5.00 U	-	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	4.60	HH	4.40	HH
Ethylbenzene	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**1.00**	1.00 U	7.30	Eco	1.40	HH
Hexachlorobutadiene	3.00 U	-	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	1.00 U	0.440	HH	0.860	HH
Isopropylbenzene	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**4.60**	**3.20**	1.00 U	7.30	Eco	7.30	Eco
m,p-Xylenes	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	2.00 U	13.0	Eco	13.0	Eco
Naphthalene	5.00 U	-	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	1.00 U	620	Eco	0.140	HH
n-Butylbenzene	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	--	--
n-Propylbenzene	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**2.00**	**1.20**	1.00 U	7.30	Eco	7.30	Eco
o-Xylene	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	350	Eco	350	Eco
sec-Butylbenzene	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	--	--
Styrene	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	72.0	Eco	72.0	Eco
tert-Butylbenzene	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	--	--
Tetrachloroethene (PCE)	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	**5.10**	**2.60**	**2.40**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	0.690	HH	0.0930	HH
Toluene	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	9.80	Eco	9.80	Eco
trans-1,2-Dichloroethene	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	140	HH	110	HH
trans-1,3-Dichloropropene	3.00 U	-	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	1.00 U	0.0550	Eco	0.0550	Eco
Trichloroethene (TCE)	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	2.50	HH	0.0390	HH
Trichlorofluoromethane	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	1,300	HH
Vinyl Acetate	10.0 U	-	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	-	16.0	Eco	16.0	Eco
Vinyl Chloride	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	0.0250	HH	0.0250	HH

Notes:

µg/L = microgram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed

-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-1e
1999/2000 Landfill Supplemental Site Inspection Groundwater Analytical Results
Volatile Organic Compounds
(Page 2 of 2)

Site ID	MW-03	MW-03	MW-04*	MW-04*	MW-04*	MW-05	MW-05	SEEP*	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	991108BIL11GW	000110BIL18GW	990712BIL01GW	991108BIL09GW	000110BIL16GW	991108BIL13GW	000110BIL19GW	000413BIL21GW				
Sample Date	11/8/1999	1/10/2000	7/12/1999	11/8/1999	1/10/2000	11/8/1999	1/10/2000	4/13/2000				
Sample Depth (Feet btc)	18.21	18.21	20.29	20.29	20.29	24.87	24.87	0.0				
Medium	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Seep Water				
Total Volatile Organic Compounds (µg/L)												
1,1,1,2-Tetrachloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	186	Eco	0.520	HH
1,1,1-Trichloroethane (TCA)	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	11.0	Eco	11.0	Eco
1,1,2,2-Tetrachloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	0.170	HH	0.0670	HH
1,1,2-Trichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	0.590	HH	0.230	HH
1,1-Dichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	47.0	Eco	2.30	HH
1,1-Dichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	25.0	Eco	25.0	Eco
1,1-Dichloropropene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	0.430	HH
1,2,3-Trichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	1.00 U	8.00	Eco	2.30	HH
1,2,3-Trichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	0.000720	HH
1,2,4-Trichlorobenzene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	1.00 U	5.00 U	1.00 U	35.0	HH	2.30	HH
1,2,4-Trimethylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**5.20**	**1.00**	1.00 U	7.30	Eco	7.30	Eco
1,2-Dibromo-3-chloropropane	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	5.00 U	--	--	0.000320	HH
1,2-Dibromoethane (EDB)	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	0.00630	HH
1,2-Dichlorobenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1.00 U	14.0	Eco	14.0	Eco
1,2-Dichloroethane (EDC)	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	0.380	HH	0.140	HH
1,2-Dichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	0.500	HH	0.390	HH
1,3,5-Trimethylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	7.30	Eco	7.30	Eco
1,3-Dichlorobenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1.00 U	71.0	Eco	0.420	HH
1,3-Dichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5,700	Eco	730	HH
1,4-Dichlorobenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1.00 U	15.0	Eco	0.420	HH
2,2-Dichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	0.500	HH	0.390	HH
2-Butanone (MEK)	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	14,000	Eco	7,100	HH
2-Chloroethylvinylether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	-	4,760	Eco	4,760	Eco
2-Chlorotoluene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	730	HH
2-Hexanone	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	99.0	Eco	47.0	HH
4-Chlorotoluene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	2,600	HH
4-Isopropyltoluene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1.00 U	--	--	--	--
4-Methyl-2-pentanone (MIBK)	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	170	Eco	170	Eco
Acetone	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	1,500	Eco	1,500	Eco
Benzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	2.20	HH	0.390	HH
Bromobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	88.0	HH
Bromochloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	0.550	HH	0.120	HH
Bromodichloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	0.550	HH	0.120	HH
Bromoform	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	1.00 U	4.30	HH	7.20	HH
Bromomethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	16.0	Eco	8.70	HH
Carbon Disulfide	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	1.00 U	0.920	Eco	0.920	Eco
Carbon Tetrachloride	1.00 U	1.00 U	1.00 U	1.00 U	**1.40**	1.00 U	1.00 U	1.00 U	0.230	HH	0.190	HH
Chlorobenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	50.0	Eco	50.0	Eco
Chloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	21,000	HH
Chloroform	1.00 U	1.00 U	1.00 U	1.00 U	**3.65**	1.00 U	1.00 U	1.00 U	5.70	HH	0.190	HH
Chloromethane	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	--	--	190	HH
cis-1,2-Dichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	590	Eco	360	HH
cis-1,3-Dichloropropene	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	1.00 U	0.0550	Eco	0.0550	Eco
Dibromochloromethane	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1.00 U	0.400	HH	0.680	HH
Dibromomethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	8.20	HH
Dichlorodifluoromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	390	HH
Dichloromethane (Methylene Chloride)	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	4.60	HH	4.40	HH
Ethylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**1.00**	1.00 U	7.30	Eco	1.40	HH
Hexachlorobutadiene	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	1.00 U	0.440	HH	0.860	HH
Isopropylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**4.60**	**3.20**	1.00 U	7.30	Eco	7.30	Eco
m,p-Xylenes	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	2.00 U	13.0	Eco	13.0	Eco
Naphthalene	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	1.00 U	620	Eco	0.140	HH
n-Butylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	--	--
n-Propylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	**2.00**	**1.20**	1.00 U	7.30	Eco	7.30	Eco
o-Xylene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	350	Eco	350	Eco
sec-Butylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	--	--
Styrene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	72.0	Eco	72.0	Eco
tert-Butylbenzene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	--	--
Tetrachloroethene (PCE)	**2.60**	**2.40**	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	0.690	HH	0.0930	HH
Toluene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	9.80	Eco	9.80	Eco
trans-1,2-Dichloroethene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	140	HH	110	HH
trans-1,3-Dichloropropene	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	1.00 U	0.0550	Eco	0.0550	Eco
Trichloroethene (TCE)	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	2.50	HH	0.0390	HH
Trichlorofluoromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	--	--	1,300	HH
Vinyl Acetate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	-	16.0	Eco	16.0	Eco
Vinyl Chloride	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	0.0250	HH	0.0250	HH

Notes:

µg/L = microgram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed

-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-1f
1999/2000 Landfill Supplemental Site Inspection Groundwater Analytical Results
Semivolatile Organic Compounds
(Page 1 of 2)

Site ID	MW-01	MW-01	MW-01	MW-02	MW-02	MW-02	MW-03	MW-03	MW-03	MW-04*	MW-04*	MW-04*	MW-05	MW-05	SEEP*	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	990713BIL08GW	991108BIL14GW	000110BIL20GW	990712BIL07GW	991108BIL12GW	000110BIL15GW	990712BIL06GW	991108BIL11GW	000110BIL18GW	990712BIL01GW	991108BIL09GW	000110BIL16GW	991108BIL13GW	000110BIL19GW	000413BIL21GW				
Sample Date	7/13/1999	11/8/1999	1/10/2000	7/12/1999	11/8/1999	1/10/2000	7/12/1999	11/8/1999	1/10/2000	7/12/1999	11/8/1999	1/10/2000	11/8/1999	1/10/2000	4/13/2000				
Sample Depth (Feet btc)	27.5	27.5	27.5	29.56	29.56	29.56	18.21	18.21	18.21	20.29	20.29	20.29	24.87	24.87	0.0				
Medium	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Seep Water				
Semivolatile Organic Compounds (µg/L)																			
1,2,4-Trichlorobenzene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	35.0	HH	2.30	HH
1,2-Dichlorobenzene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	14.0	Eco	14.0	Eco
1,3-Dichlorobenzene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	71.0	Eco	0.420	HH
1,4-Dichlorobenzene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	15.0	Eco	0.420	HH
2,4,5-Trichlorophenol	48.0 U	47.0 U	25.0 U	47.0 U	48.0 U	25.0 U	47.0 U	47.0 U	25.0 U	47.0 U	48.0 U	25.0 U	47.0 U	25.0 U	4.76 U	18.0	Eco	18.0	Eco
2,4,6-Trichlorophenol	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 U	1.40	HH	5.20	HH
2,4-Dichlorophenol	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 U	77.0	HH	110	HH
2,4-Dimethylphenol	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 U	42.0	Eco	42.0	Eco
2,4-Dinitrophenol	48.0 U	47.0 U	25.0 U	47.0 U	48.0 U	25.0 U	47.0 U	47.0 U	25.0 U	47.0 U	48.0 U	25.0 U	47.0 U	25.0 U	9.52 U	19.0	Eco	19.0	Eco
2,4-Dinitrotoluene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	0.110	HH	0.220	HH
2,6-Dinitrotoluene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	230	Eco	37.0	HH
2-Chloronaphthalene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	32.0	Eco	32.0	Eco
2-Chlorophenol	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 U	81.0	HH	180	HH
2-Methylphenol	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	**76.0**	10.0 U	4.76 U	13.0	Eco	13.0	Eco
2-Nitroaniline	48.0 U	47.0 U	25.0 U	47.0 U	48.0 U	25.0 U	47.0 U	47.0 U	25.0 U	47.0 U	48.0 U	25.0 U	47.0 U	25.0 U	4.76 UJ	--	--	370	HH
2-Nitrophenol	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 U	10,000	HH	11,000	HH
3,3'-Dichlorobenzidine	19.0 U	19.0 U	10.0 U	19.0 U	19.0 U	10.0 U	19.0 U	19.0 U	10.0 U	19.0 U	19.0 U	10.0 U	19.0 U	10.0 U	4.76 UJ	0.0210	HH	0.130	HH
3-Nitroaniline	48.0 U	47.0 U	25.0 U	47.0 U	48.0 U	25.0 U	47.0 U	47.0 U	25.0 U	47.0 U	48.0 U	25.0 U	47.0 U	25.0 U	4.76 UJ	--	--	3.40	HH
4,6-Dinitro-2-methylphenol	48.0 U	47.0 U	25.0 U	47.0 U	48.0 U	25.0 U	47.0 U	47.0 U	25.0 U	47.0 U	48.0 U	25.0 U	47.0 U	25.0 U	4.76 U	13.0	HH	2.90	HH
4-Bromophenyl Phenyl Ether	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	1.50	Eco	1.50	Eco
4-Chloro-3-methylphenol	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 U	--	--	3700	HH
4-Chloroaniline	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	50.0	Eco	0.340	HH
4-Chlorophenyl Phenyl Ether	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	--	--	--	--
4-Nitroaniline	48.0 U	47.0 U	25.0 U	47.0 U	48.0 U	25.0 U	47.0 U	47.0 U	25.0 U	47.0 U	48.0 U	25.0 U	47.0 U	25.0 U	4.76 UJ	--	--	3.40	HH
4-Nitrophenol	48.0 U	47.0 U	10.0 U	47.0 U	48.0 U	10.0 U	47.0 U	47.0 U	10.0 U	47.0 U	48.0 U	10.0 U	47.0 U	10.0 U	4.76 U	150	Eco	150	Eco
Aniline	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	2.20	Eco	2.20	Eco
Benzidine	96.0 U	94.0 U	10.0 U	94.0 U	96.0 U	10.0 U	94.0 U	94.0 U	10.0 U	94.0 U	96.0 U	100 U	94.0 U	100 U	4.76 UJ	0.0000860	HH	0.720	HH
Benzoic Acid	48.0 U	47.0 U	10.0 U	47.0 U	48.0 U	10.0 U	47.0 U	47.0 U	10.0 U	47.0 U	48.0 U	10.0 U	**11.0 J**	10.0 U	**5.89**	42.0	Eco	42.0	Eco
Benzyl Alcohol	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	8.60	Eco	8.60	Eco
Bis(2-chloroethoxy)methane	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	--	--	110	HH
Bis(2-chloroethyl) Ether	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	0.0300	HH	0.0120	HH
Bis(2-chloroisopropyl) Ether	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	1,400	HH	--	--
Bis(2-ethylhexyl) Phthalate	9.60 U	48.0 U	**10.0**	9.40 U	19.0 U	**19.0**	9.40 U	9.40 U	10.0 U	9.40 U	**2.70 J**	10.0 U	9.40 U	10.0 U	23.8 UJ	1.20	HH	3.00	Eco
Butyl Benzyl Phthalate	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	19.0	Eco	19.0	Eco
Carbazole	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	--	--	--	--
Dibenzofuran	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	3.70	Eco	3.70	Eco
Diethyl Phthalate	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	210	Eco	210	Eco
Dimethyl Phthalate	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	3.00	Eco	3.00	Eco
Di-n-butyl Phthalate	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	35.0	Eco	35.0	Eco
Di-n-octyl Phthalate	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	1.20	HH	4.10	HH
Hexachlorobenzene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	0.000280	HH	0.000300	Eco
Hexachlorobutadiene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	0.440	HH	0.860	HH
Hexachlorocyclopentadiene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	5.20	Eco	5.20	Eco
Hexachloroethane	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	1.40	HH	4.10	HH
Isophorone	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	35.0	HH	71.0	HH
Nitrobenzene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	17.0	HH	0.120	HH
N-Nitrosodimethylamine	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	0.000690	HH	0.000420	HH
N-Nitrosodi-n-propylamine	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	0.00500	HH	0.00960	HH
N-Nitrosodiphenylamine	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	3.30	HH	14.0	HH
p-cresol (4-Methylphenol)	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	**29.0**	4.76 U	13.0	Eco	13.0	Eco
Pentachlorophenol	9.60 U	9.40 U	25.0 U	9.40 U	9.60 U	25.0 U	9.40 U	9.40 U	25.0 U	9.40 U	9.60 U	25.0 U	9.40 U	25.0 U	4.76 U	0.270	HH	0.470	HH
Phenol	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 U	110	Eco	110	Eco

Table 5-1f
1999/2000 Landfill Supplemental Site Inspection Groundwater Analytical Results
Semivolatile Organic Compounds
(Page 2 of 2)

Site ID	MW-01	MW-01	MW-01	MW-02	MW-02	MW-02	MW-03	MW-03	MW-03	MW-04*	MW-04*	MW-04*	MW-05	MW-05	SEEP*	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	990713BIL08GW	991108BIL14GW	000110BIL20GW	990712BIL07GW	991108BIL12GW	000110BIL15GW	990712BIL06GW	991108BIL11GW	000110BIL18GW	990712BIL01GW	991108BIL09GW	000110BIL16GW	991108BIL13GW	000110BIL19GW	000413BIL21GW				
Sample Date	7/13/1999	11/8/1999	1/10/2000	7/12/1999	11/8/1999	1/10/2000	7/12/1999	11/8/1999	1/10/2000	7/12/1999	11/8/1999	1/10/2000	11/8/1999	1/10/2000	4/13/2000				
Sample Depth (Feet btc)	27.5	27.5	27.5	29.56	29.56	29.56	18.21	18.21	18.21	20.29	20.29	20.29	24.87	24.87	0.0				
Medium	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Seep Water				
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/L)																			
2-Methylnaphthalene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	72.2	Eco	72.2	Eco
Acenaphthene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	520	Eco	520	Eco
Acenaphthylene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	307	Eco	0.140	HH
Anthracene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	13.0	Eco	13.0	Eco
Fluorene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	3.90	Eco	3.90	Eco
Naphthalene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	620	Eco	0.140	HH
Phenanthrene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	6.30	Eco	0.140	HH
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/L)																			
Benzo(a)anthracene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	0.00380	HH	0.0270	Eco
Benzo(a)pyrene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	0.00380	HH	0.00290	HH
Benzo(b)fluoranthene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	0.00380	HH	0.0290	HH
Benzo(g,h,i)perylene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	0.380	HH	0.290	HH
Benzo(k)fluoranthene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	0.00380	HH	0.290	HH
Chrysene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	0.00380	HH	2.04	Eco
Dibenz(a,h)anthracene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	0.0180	HH	0.00290	HH
Fluoranthene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	6.16	Eco	6.16	Eco
Indeno(1,2,3-cd)pyrene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	0.00380	HH	0.0290	HH
Pyrene	9.60 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	9.40 U	10.0 U	9.40 U	9.60 U	10.0 U	9.40 U	10.0 U	4.76 UJ	10.1	Eco	10.1	Eco

Notes:

µg/L = microgram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-2a
2001/2002 Phase II Supplimental Landfill Site Inspection Soil Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, Butyltins, Herbicides, and Pesticides
(Page 1 of 4)

Site ID	BIL01TPG	BIL02TPG	BIL03TPG	BIL04TPG	BIL05	BIL06	BIL07	BIL08	BIL09	BIL10	BIL11*	Selected SLV[1] (0-3 ft bgs)	SLV Source (0-3 ft bgs)	Selected SLV[1] (>3 ft bgs)	SLV Source (>3 ft bgs)
Sample ID	011015BIL01TPG	011015BIL02TPG	011015BIL03TPG	011015BIL04TPG	011016BIL05SS	011016BIL06SS	011016BIL07SS	011016BIL08SS	011016BIL09SS	011016BIL10SS	011016BIL11SS				
Sample Date	10/15/2001	10/15/2001	10/15/2001	10/15/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001				
Sample Depth or Interval (Feet bgs)	0.0-10.0	0.0-10.0	0.0-10.0	0.0-10.0	8.0	8.0	5.0	5.0	6.0	5.0	8.0				
PCB Aroclors (µg/kg dry)															
Aroclor 1016	1.49 U	1.30 U	1.35 U	1.25 U	1.23 U	1.18 U	1.17 U	1.18 U	1.27 U	1.14 U	1.32 U	371	Eco	21,000	HH
Aroclor 1221	6.39 U	5.55 U	5.78 U	5.34 U	5.28 U	5.07 U	5.02 U	5.06 U	5.43 U	4.88 U	5.66 U	371	Eco	540	HH
Aroclor 1232	5.10 U	4.43 U	4.61 U	4.26 U	4.21 U	4.04 U	4.00 U	4.04 U	4.33 U	3.90 U	4.51 U	371	Eco	540	HH
Aroclor 1242	2.73 U	2.37 U	2.47 U	2.28 U	2.25 U	2.16 U	2.14 U	2.16 U	2.32 U	2.08 U	2.41 U	371	Eco	740	HH
Aroclor 1248	**968**	5.89 U	**61.5**	5.66 U	5.60 U	5.38 U	5.32 U	5.37 U	5.76 U	5.18 U	6.00 U	371	Eco	740	HH
Aroclor 1254	2.12 U	1.84 U	1.91 U	1.77 U	1.75 U	**26.7**	1.66 U	1.68 U	1.80 U	1.62 U	**55.3**	371	Eco	740	HH
Aroclor 1260	**26.3**	**22.2**	**87.6**	**12.5**	**10.2 J**	**12.8**	**36.7**	1.68 U	**55.3**	1.62 U	**39.8**	371	Eco	740	HH
Total PCBs as Aroclors (NDs at MDL) [1]	**996 J**	**29.9 J**	**151 J**	**19.9 J**	**17.6 J**	**44.9 J**	**43.7 J**	8.73 U	**62.9 J**	8.42 U	**101 J**	371	Eco	740	HH
Metals (mg/kg dry)															
Aluminum	-	-	-	-	**6,480**	**6,080**	**6,890**	**4,710**	**2,380**	**7,360**	**7,390**	31,400	UPL	990,000	HH
Antimony	-	-	-	-	**0.987**	**0.974**	**8.19**	**0.783**	**2.58**	**1.77**	**7.08**	0.270	Eco	410	HH
Arsenic	-	-	-	-	**4.88**	**4.24**	**3.74**	**3.27**	**1.72**	**7.98**	**7.13**	5.40	UPL	5.40	UPL
Barium	-	-	-	-	**87.4 J**	**116 J**	**110 J**	**99.6 J**	**45.3 J**	**68.4 J**	**154 J**	330	Eco	60,000	HH
Beryllium	-	-	-	-	**0.297 J**	**0.288 J**	**0.222 J**	**0.186 J**	0.182 U	**0.227 J**	**0.296 J**	21.0	Eco	610	HH
Cadmium	-	-	-	-	**1.23**	**1.51**	**2.93**	**1.33**	**1.46**	**0.762**	**2.11**	0.360	Eco	150	HH
Calcium	-	-	-	-	**5,410**	**5,420**	**4,960**	**3,170**	**1,760**	**5,320**	**4,835**	10,400	UPL	10,400	UPL
Chromium	-	-	-	-	**13.7**	**17.6**	**27.0**	**14.0**	**11.0**	**15.5**	**50.1**	28.1	UPL	190	HH
Cobalt	-	-	-	-	**10.1**	**8.81**	**9.81**	**8.85**	**3.99**	**12.4**	**13.3**	19.9	UPL	300	HH
Copper	-	-	-	-	**27.9 J**	**57.9 J**	**120 J**	**17.9 J**	**36.0 J**	**32.5 J**	**98.8 J**	56.7	UPL	12,000	HH
Iron	-	-	-	-	**21,900**	**22,900**	**20,600**	**16,500**	**10,300**	**21,400**	**19,600**	36,900	UPL	720,000	HH
Lead	-	-	-	-	**20.3 J**	**163 J**	**697 J**	**70.7 J**	**966 J**	**157 J**	**584 J**	25.5	UPL	800	HH
Magnesium	-	-	-	-	**5,310**	**4,630**	**4,550**	**3,360**	**1,190**	**6,850**	**4,035**	12,400	UPL	12,400	UPL
Manganese	-	-	-	-	**304 J**	**296 J**	**317 J**	**323 J**	**146 J**	**387 J**	**336 J**	885	UPL	7,200	HH
Mercury	-	-	-	-	**0.0763**	**0.479**	**0.215**	**0.0238**	**1.04**	**0.0520**	**0.271**	0.0660	UPL	93.0	HH
Nickel	-	-	-	-	**14.4 J**	**14.1 J**	**20.3 J**	**13.0 J**	**7.85 J**	**23.3 J**	**26.0 J**	38.0	Eco	6,100	HH
Potassium	-	-	-	-	**367 J**	**456**	**600**	**822**	**336 J**	**493**	**1,145**	2,050	UPL	2,050	UPL
Selenium	-	-	-	-	**0.106 J**	**0.273 J**	0.085 U	0.083 U	0.087 U	**0.300 J**	**0.178 J**	0.520	Eco	5,100	HH
Silver	-	-	-	-	**0.140 J**	**0.220 J**	**1.51**	**0.110 J**	**0.205 J**	**0.169 J**	**0.393 J**	4.20	Eco	1,500	HH
Sodium	-	-	-	-	161 U	156 U	159 U	155 U	163 U	158 U	172 U	341	UPL	341	UPL
Thallium	-	-	-	-	**0.148**	**0.118**	**0.0830 J**	**0.152**	**0.0835 J**	**0.116**	**0.209**	1.00	Eco	0.203	UPL
Vanadium	-	-	-	-	**40.2**	**37.9**	**46.2**	**38.0**	**15.9**	**42.7**	**48.2**	104	UPL	104	UPL
Zinc	-	-	-	-	**105 J**	**331 J**	**401 J**	**194 J**	**95.6 J**	**79.8 J**	**206 J**	71.7	UPL	310,000	HH
Total Petroleum Hydrocarbons (mg/kg dry)															
Diesel Range Organics	**92.7**	**154**	**126**	**273**	**449**	**1,280**	**6,780**	12.3 U	**7,650**	**22.9 J**	**9,735**	23,000	HH	23,000	HH
Residual Range Organics	**403**	**676**	**658**	**682**	**2,840**	**5,900**	**33,000**	25.5 U	**38,600**	**68.5**	**41,900**	40,000	HH	40,000	HH
Gasoline Range Organics	5.61 U	5.03 U	4.98 U	**586 J**	-	-	-	-	-	-	-	13,000	HH	13,000	HH

Table 5-2a
2001/2002 Phase II Supplimental Landfill Site Inspection Soil Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, Butyltins, Herbicides, and Pesticides
(Page 2 of 4)

Site ID	BIL01TPG	BIL02TPG	BIL03TPG	BIL04TPG	BIL05	BIL06	BIL07	BIL08	BIL09	BIL10	BIL11*	**Selected SLV[1] (0-3 ft bgs)**	**SLV Source (0-3 ft bgs)**	**Selected SLV[1] (>3 ft bgs)**	**SLV Source (>3 ft bgs)**
Sample ID	011015BIL01TPG	011015BIL02TPG	011015BIL03TPG	011015BIL04TPG	011016BIL05SS	011016BIL06SS	011016BIL07SS	011016BIL08SS	011016BIL09SS	011016BIL10SS	011016BIL11SS				
Sample Date	10/15/2001	10/15/2001	10/15/2001	10/15/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001				
Sample Depth (Feet bgs)	5.0	5.0	5.0	5.0	8.0	8.0	5.0	5.0	6.0	5.0	8.0				
Sample Depth or Interval (Feet bgs)	0.0-10.0	0.0-10.0	0.0-10.0	0.0-10.0	8.0	8.0	5.0	5.0	6.0	5.0	8.0				
Butyltins (µg/kg dry)															
Dibutyltin	0.899 U	0.730 U	0.788 U	**20.0**	0.711 U	0.716 U	-	0.653 U	6.44 U	0.657 U	7.62 U	28,000	Eco	180,000	HH
Monobutyltin	1.98 U	1.61 U	1.74 U	**38.0**	1.57 U	1.58 U	-	1.44 U	14.2 U	1.45 U	16.8 U	28,000	Eco	180,000	HH
Tetrabutyltin	0.694 U	0.564 U	0.609 U	0.579 U	0.549 U	0.553 U	-	0.505 U	4.98 U	0.507 U	5.89 U	28,000	Eco	180,000	HH
Tributyltin	1.43 U	**5.12**	1.25 U	**165**	1.13 U	1.14 U	-	1.04 U	10.3 U	1.05 U	12.1 U	28,000	Eco	180,000	HH
Herbicides (µg/kg dry)															
2,4,5-T	-	-	-	-	-	-	-	-	-	-	-	21.0	Eco	6,200,000	HH
2,4,5-TP (Silvex)	-	-	-	-	-	-	-	-	-	-	-	21.0	Eco	4,900,000	HH
2,4-D	-	-	-	-	-	-	-	-	-	-	-	21.0	Eco	2,400,000	HH
2,4-DB	-	-	-	-	-	-	-	-	-	-	-	21.0	Eco	4,900,000	HH
4-Nitrophenol	-	-	-	-	-	-	-	-	-	-	-	7,000	Eco	180,000,000	HH
Dalapon	-	-	-	-	-	-	-	-	-	-	-	18,000,000	HH	18,000,000	HH
Dicamba	-	-	-	-	-	-	-	-	-	-	-	18,000,000	HH	18,000,000	HH
Dichloroprop	-	-	-	-	-	-	-	-	-	-	-	21.0	Eco	4,900,000	HH
Dinoseb	-	-	-	-	-	-	-	-	-	-	-	620,000	HH	620,000	HH
MCPA	-	-	-	-	-	-	-	-	-	-	-	21.0	Eco	120,000	HH
MCPP	-	-	-	-	-	-	-	-	-	-	-	21.0	Eco	620,000	HH
Pentachlorophenol	-	-	-	-	-	-	-	-	-	-	-	2,100	Eco	13,000	HH
Pesticides (µg/kg dry)															
4,4'-DDD	-	-	-	-	-	-	-	-	-	-	-	21.0	Eco	11,000	HH
4,4'-DDE	-	-	-	-	-	-	-	-	-	-	-	21.0	Eco	7,700	HH
4,4'-DDT	-	-	-	-	-	-	-	-	-	-	-	21.0	Eco	7,700	HH
Aldrin	-	-	-	-	-	-	-	-	-	-	-	4.90	Eco	130	HH
BHC (alpha)	-	-	-	-	-	-	-	-	-	-	-	340	HH	340	HH
BHC (beta)	-	-	-	-	-	-	-	-	-	-	-	960	HH	960	HH
BHC (delta)	-	-	-	-	-	-	-	-	-	-	-	340	HH	340	HH
BHC (gamma) Lindane	-	-	-	-	-	-	-	-	-	-	-	2,000	HH	2,000	HH
Chlordane (technical)	-	-	-	-	-	-	-	-	-	-	-	7,200	HH	7,200	HH
Dieldrin	-	-	-	-	-	-	-	-	-	-	-	4.90	Eco	130	HH
Endosulfan I	-	-	-	-	-	-	-	-	-	-	-	20,000	Eco	1,400,000	HH
Endosulfan II	-	-	-	-	-	-	-	-	-	-	-	20,000	Eco	1,400,000	HH
Endosulfan Sulfate	-	-	-	-	-	-	-	-	-	-	-	20,000	Eco	1,400,000	HH
Endrin	-	-	-	-	-	-	-	-	-	-	-	4.90	Eco	71,000	HH
Endrin Aldehyde	-	-	-	-	-	-	-	-	-	-	-	4.90	Eco	71,000	HH
Endrin Ketone	-	-	-	-	-	-	-	-	-	-	-	4.90	Eco	71,000	HH
Heptachlor	-	-	-	-	-	-	-	-	-	-	-	480	HH	480	HH
Heptachlor Epoxide	-	-	-	-	-	-	-	-	-	-	-	240	HH	240	HH
Methoxychlor	-	-	-	-	-	-	-	-	-	-	-	500,000	Eco	3,100,000	HH
Toxaphene	-	-	-	-	-	-	-	-	-	-	-	2,000	HH	2,000	HH

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit
- = Not Analyzed

[1] Only Aroclors 1248, 1254, and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Landfill AOPC soil samples.
-- = SLV for analyte not available
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of combining primary and field duplicate results at this sampling location as described in Section 5.1.
[1] = Screening based on depth of sample with the exception of Gully Test pit samples (Site ID suffix = "TPG") and Mercury Vapor Lamp Test Pit samples (Site ID suffix = "TPM"), which used the minimum SLV for the two depth ranges.

Table 5-2a
2001/2002 Phase II Supplimental Landfill Site Inspection Soil Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, Butyltins, Herbicides, and Pesticides
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Site ID	BIL13	BIL14	BIL15	BIL16	BIL17	BIL18	BIL19	BIL20	BIL21	BIL22*	BIL28TPM	BIL29TPM	Selected SLV[1] (0-3 ft bgs)	SLV Source (0-3 ft bgs)	Selected SLV[1] (>3 ft bgs)	SLV Source (>3 ft bgs)
Sample ID	011016BIL13SS	011016BIL14SS	011016BIL15SS	011016BIL16SS	011016BIL17SS	011016BIL18SS	011016BIL19SS	011016BIL20SS	011016BIL21SS	011016BIL22SS	011017BIL28TPM	011017BIL29TPM				
Sample Date	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/17/2001	10/17/2001				
Sample Depth or Interval (Feet bgs)	4.0	6.0	8.0	4.0	1.0	2.0	5.0	8.0	5.0	3.0	0.0-10.0	0.0-10.0				
PCB Aroclors (µg/kg dry)																
Aroclor 1016	1.23 U	1.20 U	1.21 U	1.16 U	1.36 U	1.16 U	1.16 U	1.31 U	1.10 U	1.14 U	1.39 U	1.29 U	371	Eco	21,000	HH
Aroclor 1221	5.27 U	5.13 U	5.16 U	4.97 U	5.83 U	4.96 U	4.98 U	5.62 U	4.72 U	4.89 U	5.96 U	5.53 U	371	Eco	540	HH
Aroclor 1232	4.21 U	4.10 U	4.12 U	3.97 U	4.65 U	3.96 U	3.97 U	4.49 U	3.77 U	3.90 U	4.76 U	4.42 U	371	Eco	540	HH
Aroclor 1242	2.25 U	2.19 U	2.20 U	2.12 U	2.49 U	2.12 U	2.12 U	2.40 U	2.01 U	2.09 U	2.54 U	2.36 U	371	Eco	740	HH
Aroclor 1248	5.60 U	5.45 U	5.48 U	5.27 U	6.19 U	5.27 U	5.28 U	5.97 U	5.01 U	5.19 U	6.33 U	5.87 U	371	Eco	740	HH
Aroclor 1254	**499**	1.70 U	1.71 U	1.65 U	**78.6**	**48.4**	**54.9**	1.86 U	**37.2**	**104**	1.98 U	**23.4**	371	Eco	740	HH
Aroclor 1260	**158**	**15.0**	**52.4**	**445**	**68.0**	**39.0**	**74.6**	**2.05 J**	**41.8**	**91.3**	**46.5**	**13.1**	371	Eco	740	HH
Total PCBs as Aroclors (NDs at MDL) [1]	**663 J**	**22.2 J**	**59.6 J**	**452 J**	**153 J**	**92.7 J**	**135 J**	**9.88 J**	**84.0 J**	**200 J**	**54.8 J**	**54.8 J**	371	Eco	740	HH
Metals (mg/kg dry)																
Aluminum	**11,300**	**13,200**	**11,000**	**13,200**	**7,560**	**6,000**	**4,720**	**23,100**	**5,090**	**9,840**	-	-	31,400	UPL	990,000	HH
Antimony	**3.90**	**0.984**	**0.621**	**1.45**	**0.309 J**	**0.810**	**0.699**	**0.526 J**	**0.556 J**	**2.63 J**	-	-	0.270	Eco	410	HH
Arsenic	**5.18**	**2.58**	**1.82**	**4.24**	**2.98**	**4.07**	**2.21**	**2.55**	**1.60**	**5.95**	-	-	5.40	UPL	5.40	UPL
Barium	**113 J**	**77.8 J**	**85.4 J**	**102 J**	**132 J**	**42.6 J**	**36.5 J**	**110 J**	**34.0 J**	**129 J**	-	-	330	Eco	60,000	HH
Beryllium	**0.193 J**	0.167 U	0.162 U	**0.237 J**	0.189 U	0.157 U	0.158 U	**0.254 J**	0.155 U	0.164 U	-	-	21.0	Eco	610	HH
Cadmium	**2.16**	**1.97**	**1.86**	**1.93**	**2.09**	**0.731**	**0.594**	**1.01**	**0.559**	**3.54**	-	-	0.360	Eco	150	HH
Calcium	**6,520**	**4,240**	**4,700**	**5,660**	**4,810**	**6,100**	**3,390**	**6,220**	**4,470**	**10,485**	-	-	10,400	UPL	10,400	UPL
Chromium	**57.2**	**28.1**	**28.2**	**46.0**	**77.6**	**1,950**	**1,920**	**57.0**	**2,300**	**800**	-	-	28.1	UPL	190	HH
Cobalt	**14.1**	**15.3**	**18.9**	**14.9**	**11.3**	**41.0**	**42.3**	**17.5**	**32.4**	**22.3**	-	-	19.9	UPL	300	HH
Copper	**312 J**	**27.4 J**	**28.7 J**	**97.5 J**	**37.1 J**	**37.5 J**	**31.9 J**	**43.2 J**	**29.8 J**	**378 J**	-	-	56.7	UPL	12,000	HH
Iron	**31,100**	**29,800**	**33,000**	**28,100**	**19,200**	**51,000**	**47,300**	**32,200**	**50,700**	**40,150**	-	-	36,900	UPL	720,000	HH
Lead	**488 J**	**57.6 J**	**412 J**	**303 J**	**741 J**	**1,660 J**	**931 J**	**52.7 J**	**912 J**	**1,235 J**	-	-	25.5	UPL	800	HH
Magnesium	**6,410**	**6,010**	**5,260**	**7,340**	**6,070**	**77,700**	**73,000**	**12,000**	**88,300**	**27,250**	-	-	12,400	UPL	12,400	UPL
Manganese	**489 J**	**388 J**	**635 J**	**525 J**	**367 J**	**895 J**	**821 J**	**592 J**	**944 J**	**1,713 J**	-	-	885	UPL	7,200	HH
Mercury	**0.444**	**0.0150 J**	**0.0210**	**0.102**	**0.122**	**0.0475**	**0.0353**	**0.0836**	**0.0354**	**0.0835**	**0.505 J**	**0.552 J**	0.0660	UPL	93.0	HH
Nickel	**32.4 J**	**34.4 J**	**38.3 J**	**27.3 J**	**65.0 J**	**1,610 J**	**1,760 J**	**43.0 J**	**684 J**	**578 J**	-	-	38.0	Eco	6,100	HH
Potassium	**843**	**703**	**441**	**839**	**797**	**322 J**	**214 J**	**830**	**279 J**	**722**	-	-	2,050	UPL	2,050	UPL
Selenium	0.081 U	0.080 U	0.077 U	0.086 U	**0.205 J**	**0.226 J**	**0.184 J**	0.082 U	**0.154 J**	**0.879 J**	-	-	0.520	Eco	5,100	HH
Silver	**1.52**	**0.353 J**	**0.545**	**1.28**	**0.634**	**0.126 J**	**0.119 J**	**0.192 J**	**0.101 J**	**0.743 J**	-	-	4.20	Eco	1,500	HH
Sodium	151 U	150 U	145 U	162 U	169 U	141 U	142 U	**165 J**	139 U	147 U	-	-	341	UPL	341	UPL
Thallium	**0.120**	**0.0994 J**	**0.0892 J**	**0.123**	**0.0953 J**	**0.0578 J**	**0.0361 J**	**0.0930 J**	**0.0442 J**	**0.0829 J**	-	-	1.00	Eco	0.203	UPL
Vanadium	**67.0**	**84.0**	**93.4**	**70.1**	**34.3**	**39.5**	**35.8**	**77.4**	**34.0**	**56.1**	-	-	104	UPL	104	UPL
Zinc	**425 J**	**162 J**	**218 J**	**211 J**	**262 J**	**101 J**	**94.0 J**	**234 J**	**84.5 J**	**1,140 J**	-	-	71.7	UPL	310,000	HH
Total Petroleum Hydrocarbons (mg/kg dry)																
Diesel Range Organics	**198**	13.2 U	**39.2**	**116**	**266**	**422**	**307**	13.9 U	**190**	**101**	**2820**	**5100 J**	23,000	HH	23,000	HH
Residual Range Organics	**1,070**	**31.1 J**	**176**	**834**	**698**	**1,160**	**1,140**	**69.4**	**633**	**448 J**	**12,200**	**23,900**	40,000	HH	40,000	HH
Gasoline Range Organics	4.49 U	4.39 U	4.08 U	4.52 U	4.78 U	**3.28 J**	**2.10 J**	4.70 U	**3.05 J**	4.31 U	**214**	**267**	13,000	HH	13,000	HH
Butyltins (µg/kg dry)																
Dibutyltin	0.720 U	0.657 U	0.691 U	0.685 U	**20.2**	0.741 U	0.653 U	0.758 U	0.567 U	0.685 U	0.790 U	0.754 U	28,000	Eco	180,000	HH
Monobutyltin	1.59 U	1.45 U	1.52 U	1.51 U	**9.08**	1.63 U	1.44 U	1.67 U	1.25 U	1.51 U	1.74 U	1.66 U	28,000	Eco	180,000	HH
Tetrabutyltin	0.556 U	0.507 U	0.534 U	0.529 U	0.600 U	0.573 U	0.505 U	0.585 U	0.438 U	0.529 U	0.611 U	0.582 U	28,000	Eco	180,000	HH
Tributyltin	1.15 U	1.05 U	1.10 U	1.09 U	**9.01**	1.18 U	1.04 U	1.21 U	0.903 U	**15.4**	1.26 U	1.20 U	28,000	Eco	180,000	HH

Table 5-2a
2001/2002 Phase II Supplimental Landfill Site Inspection Soil Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, Butyltins, Herbicides, and Pesticides

Site ID	BIL13	BIL14	BIL15	BIL16	BIL17	BIL18	BIL19	BIL20	BIL21	BIL22*	BIL28TPM	BIL29TPM	Selected SLV[1]	SLV Source	Selected SLV[1]	SLV Source
Sample ID	011016BIL13SS	011016BIL14SS	011016BIL15SS	011016BIL16SS	011016BIL17SS	011016BIL18SS	011016BIL19SS	011016BIL20SS	011016BIL21SS	011016BIL22SS	011017BIL28TPM	011017BIL29TPM				
Sample Date	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/17/2001	10/17/2001				
Sample Depth (Feet bgs)	4.0	6.0	8.0	4.0	1.0	2.0	5.0	8.0	5.0	3.0	5.0	5.0				
Sample Depth or Interval (Feet bgs)	4.0	6.0	8.0	4.0	1.0	2.0	5.0	8.0	5.0	3.0	0.0-10.0	0.0-10.0	**(0-3 ft bgs)**	**(0-3 ft bgs)**	**(>3 ft bgs)**	**(>3 ft bgs)**
Herbicides (µg/kg dry)																
2,4,5-T	1.74 U	1.63 U	1.55 U	1.66 U	1.79 U	1.61 U	1.46 U	1.74 U	1.48 U	1.54 U	-	-	21.0	Eco	6,200,000	HH
2,4,5-TP (Silvex)	2.55 U	2.38 U	2.27 U	2.43 U	2.61 U	2.35 U	2.14 U	2.55 U	2.17 U	2.25 U	-	-	21.0	Eco	4,900,000	HH
2,4-D	0.659 U	0.614 U	0.585 U	0.627 U	0.675 U	0.608 U	0.520 U	0.658 U	0.560 U	0.581 U	-	-	21.0	Eco	2,400,000	HH
2,4-DB	1.12 U	1.04 U	0.994 U	1.07 U	1.15 U	1.03 U	0.939 U	1.12 U	0.951 U	0.988 U	-	-	21.0	Eco	4,900,000	HH
4-Nitrophenol	1.77 U	1.65 U	1.57 U	1.68 U	1.81 U	1.63 U	1.48 U	1.76 U	1.50 U	1.56 U	-	-	7,000	Eco	180,000,000	HH
Dalapon	2.44 U	2.27 U	2.16 U	2.32 U	2.50 U	2.25 U	2.04 U	2.43 U	2.07 U	2.15 U	-	-	18,000,000	HH	18,000,000	HH
Dicamba	1.94 U	1.81 U	1.72 U	1.85 U	1.99 U	1.79 U	1.63 U	1.94 U	1.65 U	1.71 U	-	-	18,000,000	HH	18,000,000	HH
Dichloroprop	0.851 U	0.793 U	0.755 U	0.810 U	0.871 U	0.785 U	0.713 U	0.849 U	0.722 U	0.750 U	-	-	21.0	Eco	4,900,000	HH
Dinoseb	0.659 U	0.614 U	0.585 U	0.627 U	0.675 U	0.608 U	0.552 U	0.658 U	0.560 U	0.581 U	-	-	620,000	HH	620,000	HH
MCPA	1.20 U	1.12 U	1.07 U	1.15 U	1.23 U	1.11 U	1.01 U	1.20 U	1.02 U	1.06 U	-	-	21.0	Eco	120,000	HH
MCPP	2.19 U	2.04 U	1.94 U	2.08 U	2.24 U	2.02 U	1.83 U	2.18 U	1.86 U	1.93 U	-	-	21.0	Eco	620,000	HH
Pentachlorophenol	0.933 U	0.869 U	0.827 U	0.887 U	0.955 U	0.859 U	0.781 U	0.930 U	0.791 U	0.822 U	-	-	2,100	Eco	13,000	HH
Pesticides (µg/kg dry)																
4,4'-DDD	2.23 U	0.214 U	2.17 U	2.29 U	2.41 U	2.14 U	1.99 U	2.35 U	1.96 U	2.23 U	-	-	21.0	Eco	11,000	HH
4,4'-DDE	2.23 U	0.253 U	2.17 U	2.29 U	2.41 U	2.14 U	1.99 U	2.35 U	1.96 U	2.23 U	-	-	21.0	Eco	7,700	HH
4,4'-DDT	2.23 U	0.285 U	2.17 U	2.29 U	2.41 U	2.14 U	1.99 U	2.35 U	1.96 U	2.23 U	-	-	21.0	Eco	7,700	HH
Aldrin	1.12 U	0.474 U	1.09 U	1.14 U	1.20 U	1.07 U	0.994 U	1.18 U	0.978 U	1.11 U	-	-	4.90	Eco	130	HH
BHC (alpha)	1.12 U	0.341 U	1.09 U	1.14 U	1.20 U	**2.02**	0.994 U	1.18 U	0.978 U	1.11 U	-	-	340	HH	340	HH
BHC (beta)	1.12 U	0.465 U	1.09 U	1.14 U	1.20 U	1.07 U	0.994 U	1.18 U	0.978 U	1.11 U	-	-	960	HH	960	HH
BHC (delta)	1.12 U	0.422 U	1.09 U	1.14 U	1.20 U	1.07 U	0.994 U	1.18 U	0.978 U	1.11 U	-	-	340	HH	340	HH
BHC (gamma) Lindane	1.12 U	0.420 U	1.09 U	1.14 U	1.20 U	1.07 U	0.994 U	1.18 U	0.978 U	1.11 U	-	-	2,000	HH	2,000	HH
Chlordane (technical)	**409**	1.55 U	10.9 U	**53.6 J**	**1,560**	**65.6 J**	9.94 U	11.8 U	**49.4 J**	**92.7 J**	-	-	7,200	HH	7,200	HH
Dieldrin	2.23 U	0.360 U	2.17 U	2.29 U	2.41 U	2.14 U	1.99 U	2.35 U	1.96 U	2.23 U	-	-	4.90	Eco	130	HH
Endosulfan I	1.12 U	0.468 U	1.09 U	1.14 U	1.20 U	1.07 U	0.994 U	1.18 U	0.978 U	1.11 U	-	-	20,000	Eco	1,400,000	HH
Endosulfan II	2.23 U	0.425 U	2.17 U	2.29 U	**8.84 J**	2.14 U	1.99 U	2.35 U	1.96 U	2.23 U	-	-	20,000	Eco	1,400,000	HH
Endosulfan Sulfate	2.23 U	0.400 U	2.17 U	2.29 U	**5.97 J**	2.14 U	1.99 U	2.35 U	1.96 U	2.23 U	-	-	20,000	Eco	1,400,000	HH
Endrin	2.23 U	0.397 U	2.17 U	2.29 U	2.41 U	2.14 U	1.99 U	2.35 U	1.96 U	2.23 U	-	-	4.90	Eco	71,000	HH
Endrin Aldehyde	2.23 U	0.448 U	2.17 U	2.29 U	2.41 U	2.14 U	1.99 U	2.35 U	1.96 U	2.23 U	-	-	4.90	Eco	71,000	HH
Endrin Ketone	2.23 U	0.309 U	2.17 U	2.29 U	2.41 U	2.14 U	1.99 U	2.35 U	1.96 U	2.23 U	-	-	4.90	Eco	71,000	HH
Heptachlor	1.12 U	0.378 U	1.09 U	1.14 U	**2.83**	1.07 U	0.994 U	1.18 U	0.978 U	**3.07**	-	-	480	HH	480	HH
Heptachlor Epoxide	1.12 U	0.401 U	1.09 U	1.14 U	**14.4**	1.07 U	0.994 U	1.18 U	0.978 U	1.11 U	-	-	240	HH	240	HH
Methoxychlor	11.2 U	1.51 U	10.9 U	11.4 U	12.0 U	10.7 U	9.94 U	11.8 U	9.78 U	11.1 U	-	-	500,000	Eco	3,100,000	HH
Toxaphene	112 U	6.89 U	109 U	114 U	120 U	107 U	99.4 U	118 U	97.8 U	111 U	-	-	2,000	HH	2,000	HH

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit
- = Not Analyzed

[1] Only Aroclors 1248, 1254, and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Landfill AOPC soil samples.
-- = SLV for analyte not available
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of combining primary and field duplicate results at this sampling location as described in Section 5.1.
[1] = Screening based on depth of sample with the exception of Gully Test pit samples (Site ID suffix = "TPG") and Mercury Vapor Lamp Test Pit samples (Site ID suffix = "TPM"), which used the minimum SLV for the two depth ranges.

Table 5-2b
2001/2002 Phase II Supplimental Landfill Site Inspection Soil Analytical Results
Volatile Organic Compounds
(Page 1 of 2)

Site ID	BIL01TPG	BIL02TPG	BIL03TPG	BIL04TPG	BIL13	BIL14	BIL15	BIL16	Selected SLV[1]	SLV Source	Selected SLV[1]	SLV Source
Sample ID	011015BIL01TPG	011015BIL02TPG	011015BIL03TPG	011015BIL04TPG	011016BIL13SS	011016BIL14SS	011016BIL15SS	011016BIL16SS				
Sample Date	10/15/2001	10/15/2001	10/15/2001	10/15/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001				
Sample Depth or Interval (Feet bgs)	0.0-10.0	0.0-10.0	0.0-10.0	0.0-10.0	4.0	6.0	8.0	4.0	(0-3 ft bgs)	(0-3 ft bgs)	(>3 ft bgs)	(>3 ft bgs)
Volatile Organic Compounds (µg/kg dry)												
1,1,1,2-Tetrachloroethane	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	9,300	HH	9,300	HH
1,1,1-Trichloroethane (TCA)	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	38,000,000	HH	38,000,000	HH
1,1,2,2-Tetrachloroethane	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	2,800	HH	2,800	HH
1,1,2-Trichloroethane	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	2,700	HH	2,700	HH
1,1-Dichloroethane	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	5,900	HH	5,900	HH
1,1-Dichloroethene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	680,000	HH	680,000	HH
1,1-Dichloropropene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	8,100	HH	8,100	HH
1,2,3-Trichlorobenzene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	20,000	Eco	490,000	HH
1,2,3-Trichloropropane	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	95.0	HH	95.0	HH
1,2,4-Trichlorobenzene	0.247 UJ	0.226 UJ	0.231 UJ	2,300 U	0.242 UJ	0.212 UJ	0.192 UJ	0.208 UJ	20,000	Eco	99,000	HH
1,2,4-Trimethylbenzene	0.247 U	0.226 U	0.231 U	**14,300**	0.242 U	0.212 U	0.192 U	0.208 U	200,000	Eco	980,000	HH
1,2-Dibromo-3-chloropropane	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	69.0	HH	69.0	HH
1,2-Dibromoethane (EDB)	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	140	HH	140	HH
1,2-Dichlorobenzene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	2,260	Eco	19,000,000	HH
1,2-Dichloroethane (EDC)	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	590	HH	590	HH
1,2-Dichloropropane	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	4,500	HH	4,500	HH
1,3,5-Trimethylbenzene	0.247 U	0.226 U	0.231 U	**5,410**	0.242 U	0.212 U	0.192 U	0.208 U	150,000	HH	150,000	HH
1,3-Dichlorobenzene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	2,260	Eco	17,000	HH
1,3-Dichloropropane	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	20,000,000	HH	20,000,000	HH
1,4-Dichlorobenzene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	17,000	HH	17,000	HH
2,2-Dichloropropane	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	4,500	HH	4,500	HH
2-Butanone (MEK)	1,230 U	1.13 U	1.15 U	11,500 U	1.21 U	1.06 U	0.958 U	1.04 U	200,000,000	HH	200,000,000	HH
2-Chlorotoluene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	20,000,000	HH	20,000,000	HH
2-Hexanone	1.24 U	1.13 U	1.15 U	11,500 U	1.21 U	1.06 U	0.958 U	1.04 U	1,250,000	Eco	1,400,000	HH
4-Chlorotoluene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	72,000,000	HH	72,000,000	HH
4-Isopropyltoluene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	**0.457**	200,000	Eco	24,000,000	HH
4-Methyl-2-pentanone (MIBK)	1.24 U	1.13 U	1.15 U	11,500 U	1.21 U	1.06 U	0.958 U	1.04 U	1,250,000	Eco	53,000,000	HH
Acetone	1.24 UJ	1.13 UJ	1.15 UJ	11,500 U	1.21 UJ	1.06 UJ	0.958 UJ	1.04 UJ	1,250,000	Eco	630,000,000	HH
Benzene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	1,200	HH	1,200	HH
Bromobenzene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	1,800,000	HH	1,800,000	HH
Bromochloromethane	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	1,900	HH	1,900	HH
Bromodichloromethane	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	1,900	HH	1,900	HH
Bromoform	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	360,000	HH	360,000	HH
Bromomethane	0.247 UJ	0.226 UJ	0.231 UJ	2,300 UJ	0.242 UJ	0.212 UJ	0.192 UJ	0.208 UJ	17,000	HH	17,000	HH
Carbon Disulfide	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	1,000,000	Eco	3,700,000	HH
Carbon Tetrachloride	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	630	HH	630	HH
Chlorobenzene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	40,000	Eco	4,300,000	HH
Chloroethane	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	61,000,000	HH	61,000,000	HH
Chloroform	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	410	HH	410	HH
Chloromethane	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	300,000	HH	300,000	HH
cis-1,2-Dichloroethene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	2,500,000	Eco	3,100,000	HH
cis-1,3-Dichloropropene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	8,100	HH	8,100	HH
Dibromochloromethane	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	34,000	HH	34,000	HH
Dibromomethane	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	110,000	HH	110,000	HH
Dichlorodifluoromethane	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	**0.221 J**	0.208 U	730,000	Eco	780,000	HH
Dichloromethane (Methylene Chloride)	3.70 U	2.48 U	3.39 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	20,000	HH	20,000	HH
Ethylbenzene	0.247 U	0.226 U	0.231 U	**2,700 J**	0.242 U	0.212 U	0.192 U	0.208 U	2,260	Eco	12,000	HH
Hexachlorobutadiene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	22,000	HH	22,000	HH
Isopropylbenzene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	2,260	Eco	24,000,000	HH
m,p-Xylenes	0.495 U	0.452 U	0.461 U	**9,800**	0.242 U	0.424 U	**0.552 J**	0.416 U	120,000	Eco	2,700,000	HH
Naphthalene	0.247 UJ	0.226 UJ	0.231 UJ	**8,360**	0.242 UJ	0.212 UJ	0.192 UJ	0.208 UJ	23,000	HH	23,000	HH
n-Butylbenzene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	-	-	-	-
n-Propylbenzene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	2,260	Eco	21,000,000	HH
o-Xylene	0.247 U	0.226 U	0.231 U	**4,260 J**	0.242 U	0.212 U	**0.368 J**	0.208 U	1,000	Eco	19,000,000	HH
sec-Butylbenzene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	2,260	Eco	-	-
Styrene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	300,000	Eco	51,000,000	HH
tert-Butylbenzene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	2,260	Eco	-	-
Tetrachloroethene (PCE)	**11.0**	**3.73**	**8.88**	**403,000**	**8.12**	**0.605**	**0.668**	**5.19**	1,600	HH	1,600	HH
Toluene	**3.69**	**0.760**	**1.65**	**133,000**	0.242 U	**0.269 J**	**0.352 J**	0.208 U	200,000	Eco	24,000,000	HH
trans-1,2-Dichloroethene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	200,000	HH	200,000	HH
trans-1,3-Dichloropropene	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	8,100	HH	8,100	HH
Trichloroethene (TCE)	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	130	HH	130	HH
Trichlorofluoromethane	0.247 U	0.226 U	0.231 U	2,300 U	**0.325 J**	0.212 U	0.192 U	0.208 U	730,000	Eco	63,000,000	HH
Vinyl Acetate	1.24 UJ	1.13 UJ	1.15 UJ	11,500 U	1.21 UJ	1.06 UJ	0.958 UJ	1.04 UJ	4,100,000	HH	4,100,000	HH
Vinyl Chloride	0.247 U	0.226 U	0.231 U	2,300 U	0.242 U	0.212 U	0.192 U	0.208 U	2,200	HH	2,200	HH

Notes:

µg/kg = microgram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of combining primary and field duplicate results at this sampling location as described in Section 5.1.

[1] = Screening based on depth of sample with the exception of Gully Test Pit samples (Site ID suffix = "TPG") and Mercury Vapor Lamp Test Pit samples (Site ID suffix = "TPM"). The Mercury Vapor Lamp Test Pit samples were screened against the the minimum SLV for the two depth ranges. The Gully Test Pit COCs were screened against the minimum SLV for the two depth ranges, except for o-xylene, toluene, and PCE which were compared only to >3 ft SLVs due to more recent (2009) surface and subsurface samples that analyzed for a subset of analytes and superceed the Gully Test it data for these analytes.

Table 5-2b
2001/2002 Phase II Supplimental Landfill Site Inspection Soil Analytical Results
Volatile Organic Compounds
(Page 2 of 2)

Site ID	BIL17	BIL18	BIL19	BIL20	BIL21	BIL22*	BIL28TPM	BIL29TPM	Selected SLV[1] (0-3 ft bgs)	SLV Source (0-3 ft bgs)	Selected SLV[1] (>3 ft bgs)	SLV Source (>3 ft bgs)
Sample ID	011016BIL17SS	011016BIL18SS	011016BIL19SS	011016BIL20SS	011016BIL21SS	011016BIL22SS	011017BIL28TPM	011017BIL29TPM				
Sample Date	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/17/2001	10/17/2001				
Sample Depth or Interval (Feet bgs)	1.0	2.0	5.0	8.0	5.0	3.0	0.0-10.0	0.0-10.0				
Volatile Organic Compounds (µg/kg dry)												
1,1,1,2-Tetrachloroethane	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	9,300	HH	9,300	HH
1,1,1-Trichloroethane (TCA)	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	38,000,000	HH	38,000,000	HH
1,1,2,2-Tetrachloroethane	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	2,800	HH	2,800	HH
1,1,2-Trichloroethane	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	2,700	HH	2,700	HH
1,1-Dichloroethane	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	5,900	HH	5,900	HH
1,1-Dichloroethene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	680,000	HH	680,000	HH
1,1-Dichloropropene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	8,100	HH	8,100	HH
1,2,3-Trichlorobenzene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	20,000	Eco	490,000	HH
1,2,3-Trichloropropane	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	95.0	HH	95.0	HH
1,2,4-Trichlorobenzene	0.218 UJ	0.220 UJ	0.174 U	0.229 UJ	0.200 UJ	0.212 UJ	255 U	230 U	20,000	Eco	99,000	HH
1,2,4-Trimethylbenzene	0.218 U	0.220 U	0.174 U	0.229 U	**0.230 J**	0.212 U	**1,280**	**672**	200,000	Eco	980,000	HH
1,2-Dibromo-3-chloropropane	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	69.0	HH	69.0	HH
1,2-Dibromoethane (EDB)	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	140	HH	140	HH
1,2-Dichlorobenzene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	2,260	Eco	19,000,000	HH
1,2-Dichloroethane (EDC)	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	590	HH	590	HH
1,2-Dichloropropane	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	4,500	HH	4,500	HH
1,3,5-Trimethylbenzene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	**493 J**	**326 J**	150,000	HH	150,000	HH
1,3-Dichlorobenzene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	2,260	Eco	17,000	HH
1,3-Dichloropropane	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	20,000,000	HH	20,000,000	HH
1,4-Dichlorobenzene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	17,000	HH	17,000	HH
2,2-Dichloropropane	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	4,500	HH	4,500	HH
2-Butanone (MEK)	1.09 U	1.10 U	0.872 U	1.15 U	1.00 U	1.06 U	1,270 U	1,150 U	200,000,000	HH	200,000,000	HH
2-Chlorotoluene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	20,000,000	HH	20,000,000	HH
2-Hexanone	1.09 U	1.10 U	0.872 UJ	1.15 U	1.00 U	1.06 U	1,270 U	1,150 U	1,250,000	Eco	1,400,000	HH
4-Chlorotoluene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	72,000,000	HH	72,000,000	HH
4-Isopropyltoluene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	200,000	Eco	24,000,000	HH
4-Methyl-2-pentanone (MIBK)	1.09 U	1.10 U	0.872 U	1.15 U	1.00 U	1.06 U	1,270 U	1,150 U	1,250,000	Eco	53,000,000	HH
Acetone	1.09 UJ	1.10 UJ	0.872 U	1.15 UJ	1.00 UJ	1.06 UJ	1,270 U	1,150 U	1,250,000	Eco	630,000,000	HH
Benzene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	1,200	HH	1,200	HH
Bromobenzene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	1,800,000	HH	1,800,000	HH
Bromochloromethane	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	1,900	HH	1,900	HH
Bromodichloromethane	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	1,900	HH	1,900	HH
Bromoform	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	360,000	HH	360,000	HH
Bromomethane	0.218 UJ	0.220 UJ	0.174 UJ	0.229 UJ	0.200 UJ	0.212 UJ	255 UJ	230 UJ	17,000	HH	17,000	HH
Carbon Disulfide	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	1,000,000	Eco	3,700,000	HH
Carbon Tetrachloride	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	630	HH	630	HH
Chlorobenzene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	40,000	Eco	4,300,000	HH
Chloroethane	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	61,000,000	HH	61,000,000	HH
Chloroform	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	410	HH	410	HH
Chloromethane	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	300,000	HH	300,000	HH
cis-1,2-Dichloroethene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	2,500,000	Eco	3,100,000	HH
cis-1,3-Dichloropropene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	8,100	HH	8,100	HH
Dibromochloromethane	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	34,000	HH	34,000	HH
Dibromomethane	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	110,000	HH	110,000	HH
Dichlorodifluoromethane	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	730,000	Eco	780,000	HH
Dichloromethane (Methylene Chloride)	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	20,000	HH	20,000	HH
Ethylbenzene	0.218 U	0.220 U	0.174 U	0.229 U	**0.282 J**	0.212 U	255 U	230 U	2,260	Eco	12,000	HH
Hexachlorobutadiene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	22,000	HH	22,000	HH
Isopropylbenzene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	2,260	Eco	24,000,000	HH
m,p-Xylenes	0.437 U	0.440 U	0.349 U	0.458 U	0.400 U	0.424 U	509 U	460 U	120,000	Eco	2,700,000	HH
Naphthalene	0.218 UJ	0.220 UJ	0.735 UJ	0.229 UJ	0.200 UJ	0.212 UJ	**542**	**504**	23,000	HH	23,000	HH
n-Butylbenzene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	-	-	-	-
n-Propylbenzene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	2,260	Eco	21,000,000	HH
o-Xylene	0.218 U	0.220 U	0.174 U	0.229 U	**0.735**	0.212 U	255 U	230 U	1,000	Eco	19,000,000	HH
sec-Butylbenzene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	2,260	Eco	-	-
Styrene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	300,000	Eco	51,000,000	HH
tert-Butylbenzene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	2,260	Eco	-	-
Tetrachloroethene (PCE)	**1.07**	**0.734**	**1.13**	**3.42**	**0.707**	**3.29**	255 U	230 U	1,600	HH	1,600	HH
Toluene	0.218 U	**0.225 J**	**0.312 J**	**0.984**	**0.376 J**	0.212 U	255 U	230 U	200,000	Eco	24,000,000	HH
trans-1,2-Dichloroethene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	200,000	HH	200,000	HH
trans-1,3-Dichloropropene	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	8,100	HH	8,100	HH
Trichloroethene (TCE)	0.218 U	0.220 U	0.174 UJ	0.229 U	0.200 U	0.212 U	255 U	230 U	130	HH	130	HH
Trichlorofluoromethane	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	730,000	Eco	63,000,000	HH
Vinyl Acetate	1.09 UJ	1.10 UJ	0.872 U	1.15 UJ	1.00 UJ	1.06 UJ	1,270 U	1,150 U	4,100,000	HH	4,100,000	HH
Vinyl Chloride	0.218 U	0.220 U	0.174 U	0.229 U	0.200 U	0.212 U	255 U	230 U	2,200	HH	2,200	HH

Notes:
µg/kg = microgram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of combining primary and field duplicate results at this sampling location as described in Section 5.1.
[1] = Screening based on depth of sample with the exception of Gully Test Pit samples (Site ID suffix = "TPG") and Mercury Vapor Lamp Test Pit samples (Site ID
The Gully Test Pit COCs were screened against the minimum SLV for the two depth ranges, except for o-xylene, toluene, and PCE which were compared only t
Test it data for these analytes.

Table 5-2c
2001/2002 Phase II Supplimental Landfill Site InspectionSoil Analytical Results
Semivolatile Organic Compounds
(Page 1 of 2)

Site ID	BIL01TPG	BIL02TPG	BIL03TPG	BIL04TPG	BIL13	BIL14	BIL15	BIL16	BIL17	BIL18	BIL19	BIL20	BIL21	BIL22*	BIL28TPM	BIL29TPM	Selected SLV[1] (0-3 ft bgs)	SLV Source (0-3 ft bgs)	Selected SLV[1] (>3 ft bgs)	SLV Source (>3 ft bgs)
Sample ID	011015BIL01TPG	011015BIL02TPG	011015BIL03TPG	011015BIL04TPG	011016BIL13SS	011016BIL14SS	011016BIL15SS	011016BIL16SS	011016BIL17SS	011016BIL18SS	011016BIL19SS	011016BIL20SS	011016BIL21SS	011016BIL22SS	011017BIL28TPM	011017BIL29TPM				
Sample Date	10/15/2001	10/15/2001	10/15/2001	10/15/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/17/2001	10/17/2001				
Sample Depth or Interval (Feet bgs)	0.0-10.0	0.0-10.0	0.0-10.0	0.0-10.0	4.0	6.0	8.0	4.0	1.0	2.0	5.0	8.0	5.0	3.0	0.0-10.0	0.0-10.0				
Semivolatile Organic Compounds (µg/kg)																				
1,2,4-Trichlorobenzene	15.2 U	13.0 U	13.0 U	-	12.9 U	11.2 U	12.0 U	12.4 U	13.0 U	12.0 U	11.4 U	12.2 U	11.0 U	11.8 U	140 U	126 U	20,000	Eco	99,000	HH
1,2-Dichlorobenzene	18.9 U	16.1 U	16.2 U	-	16.0 U	13.9 U	14.9 U	15.3 U	16.1 U	14.9 U	14.2 U	15.1 U	13.6 U	14.6 U	173 U	157 U	2,260	Eco	19,000,000	HH
1,3-Dichlorobenzene	25.6 U	21.9 U	22.0 U	-	21.8 U	19.0 U	20.3 U	20.9 U	21.9 U	20.2 U	19.2 U	20.6 U	18.5 U	19.9 U	236 U	213 U	2,260	Eco	17,000	HH
1,4-Dichlorobenzene	29.3 U	25.0 U	25.1 U	-	24.9 U	21.7 U	23.1 U	23.8 U	25.0 U	23.1 U	22.0 U	23.5 U	21.1 U	22.7 U	269 U	244 U	17,000	HH	17,000	HH
2,4,5-Trichlorophenol	32.9 U	28.1 U	28.3 U	28.3 U	28.0 U	24.4 U	26.0 U	26.8 U	28.1 U	26.0 U	24.7 U	26.4 U	23.8 U	19.5 U	303 U	274 U	4,000	Eco	62,000,000	HH
2,4,6-Trichlorophenol	24.3 U	20.8 U	20.9 U	20.9 U	20.7 U	18.0 U	19.2 U	19.8 U	20.8 U	19.2 U	18.3 U	19.5 U	17.6 U	18.9 U	224 U	203 U	10,000	Eco	200,000	HH
2,4-Dichlorophenol	20.1 U	17.2 U	17.3 U	17.3 U	37.4 U	14.9 U	15.9 U	16.4 U	17.2 U	15.9 U	15.1 U	16.1 U	14.5 U	15.6 U	185 U	198 U	20,000	Eco	1,800,000	HH
2,4-Dimethylphenol	20.1 U	17.2 U	17.3 U	17.3 U	17.1 U	14.9 U	15.9 U	16.4 U	17.2 U	15.9 U	15.1 U	16.1 U	14.5 U	15.6 U	185 U	168 U	20,000	Eco	12,000,000	HH
2,4-Dinitrophenol	-	-	-	-	17.1 UJ	32.5 UJ	34.7 UJ	35.8 UJ	37.5 UJ	34.7 UJ	33.0 UJ	35.2 UJ	31.7 UJ	34.1 UJ	404 U	168 U	20,000	Eco	1,200,000	HH
2,4-Dinitrotoluene	23.8 U	20.3 U	20.4 U	-	20.2 U	17.6 U	18.8 U	19.4 U	20.3 U	18.8 U	17.9 U	19.1 U	17.2 U	18.5 U	219 U	366 U	5,500	HH	5,500	HH
2,6-Dinitrotoluene	32.9 U	28.1 U	28.3 U	-	28.0 UJ	24.4 UJ	26.0 UJ	26.8 UJ	28.1 UJ	26.0 U	24.7 UJ	26.4 UJ	23.8 UJ	25.6 UJ	303 U	259 U	240,000	HH	240,000	HH
2-Chloronaphthalene	5.49 U	4.69 U	4.71 U	-	4.67 U	4.60 U	4.34 U	4.47 U	4.68 U	4.34 U	4.12 U	4.40 U	3.97 U	4.27 U	50.5 U	45.7 U	82,000,000	HH	82,000,000	HH
2-Chlorophenol	27.5 U	23.4 U	23.6 U	23.6 U	23.3 U	20.3 U	21.7 U	22.3 U	23.4 U	21.7 U	20.6 U	22.0 U	19.8 U	21.3 U	252 U	228 U	60,000	Eco	5,100,000	HH
2-Methylphenol	22.0 U	18.8 U	18.9 U	18.9 U	18.7 U	16.2 U	17.4 U	17.9 U	18.7 U	17.4 U	16.5 U	17.6 U	15.9 U	17.1 U	202 U	183 U	50,000	Eco	31,000,000	HH
2-Nitroaniline	23.8 U	20.3 U	20.4 U	-	17.1 U	17.6 U	18.8 U	19.4 U	20.3 U	18.8 U	17.9 U	19.1 U	17.2 U	18.5 U	219 U	198 U	6,000,000	HH	6,000,000	HH
2-Nitrophenol	25.6 U	21.9 U	22.0 U	22.0 U	21.8 U	19.0 U	20.3 U	20.9 U	21.9 U	20.2 U	19.2 U	20.6 U	18.5 U	19.9 U	236 U	213 U	180,000,000	HH	180,000,000	HH
3,3'-Dichlorobenzidine	20.1 U	17.2 U	17.3 U	-	17.1 UJ	14.9 UJ	15.9 UJ	16.4 UJ	17.2 UJ	15.9 UJ	15.1 UJ	16.1 UJ	14.5 UJ	15.6 UJ	185 U	168 U	4,800	HH	4,800	HH
3-Nitroaniline	31.1 U	26.6 U	26.7 U	-	26.5 UJ	23.0 UJ	24.6 UJ	25.3 UJ	26.5 UJ	24.6 UJ	23.4 UJ	25.0 UJ	22.5 UJ	24.2 UJ	286 U	259 U	70,000	Eco	6,000,000	HH
4,6-Dinitro-2-methylphenol	-	-	-	-	57.6 UJ	50.1 UJ	24.6 UJ	55.1 UJ	57.8 UJ	53.5 UJ	50.9 UJ	54.3 UJ	48.9 UJ	52.6 UJ	623 U	564 U	49,000	HH	49,000	HH
4-Bromophenyl Phenyl Ether	24.3 U	20.8 U	20.9 U	-	20.7 U	18.0 U	19.2 U	19.8 U	20.8 U	19.2 U	18.3 U	19.5 U	17.6 U	18.9 U	224 U	203 U	-	-	-	-
4-Chloro-3-methylphenol	20.1 U	17.2 U	17.3 U	17.3 U	17.1 U	14.9 U	15.9 U	16.4 U	17.2 U	15.9 U	15.1 U	16.1 U	14.5 U	15.6 U	185 U	168 U	62,000,000	HH	62,000,000	HH
4-Chloroaniline	17.0 U	14.5 U	14.6 U	-	14.5 U	12.6 U	13.5 U	13.9 U	14.5 U	13.4 U	12.8 U	13.7 U	12.3 U	13.2 U	157 U	142 U	8,600	HH	8,600	HH
4-Chlorophenyl Phenyl Ether	30.8 U	26.3 U	26.4 U	-	26.1 U	22.7 U	24.3 U	25.0 U	26.2 U	24.3 U	23.1 U	24.7 U	22.2 U	23.9 U	283 U	256 U	-	-	-	-
4-Nitroaniline	31.1 U	26.6 U	26.7 U	-	26.5 UJ	23.0 UJ	24.6 UJ	25.3 UJ	26.5 UJ	24.6 UJ	23.4 UJ	25.0 UJ	22.5 UJ	24.2 UJ	286 U	259 U	40,000	Eco	86,000	HH
4-Nitrophenol	34.8 UJ	29.7 UJ	29.9 UJ	29.9 UJ	29.6 UJ	25.7 UJ	27.5 UJ	28.3 UJ	29.7 UJ	27.5 UJ	26.1 UJ	27.9 UJ	25.1 UJ	27.0 UJ	320 U	289 U	7,000	Eco	180,000,000	HH
Aniline	49.4 UJ	156 U	157 U	-	42.0 U	36.6 U	39.1 U	40.2 U	42.2 U	39.0 U	37.1 U	39.6 U	35.7 U	38.4 U	454 U	411 U	200,000	Eco	300,000	HH
Benzidine	34.6 UJ	29.5 UJ	29.7 UJ	-	29.4 UJ	25.6 UJ	27.3 UJ	28.2 UJ	29.5 UJ	27.3 UJ	26.0 UJ	27.7 UJ	25.0 UJ	26.9 UJ	318 U	288 U	55,000	HH	55,000	HH
Benzoic Acid	-	-	-	-	52.9 U	46.0 U	49.2 U	50.6 U	**553**	**191 J**	**301 J**	49.9 U	44.9 U	**300 J**	572 U	518 U	200,000	Eco	2,500,000,000	HH
Benzyl Alcohol	38.4 U	32.5 U	33.0 U	33.0 U	32.7 UJ	28.4 UJ	30.4 UJ	31.3 UJ	32.8 UJ	30.4 UJ	28.9 UJ	30.8 UJ	27.8 UJ	29.9 UJ	353 UJ	320 UJ	2,260	Eco	62,000,000	HH
Bis(2-chloroethoxy)methane	22.0 U	18.8 U	18.9 U	-	18.7 U	16.2 U	17.4 U	17.9 U	18.7 U	17.4 U	16.5 U	17.6 U	15.9 U	17.1 U	202 U	183 U	730,000	Eco	1,800,000	HH
Bis(2-chloroethyl) Ether	35.0 U	29.9 U	30.0 U	-	29.7 U	25.9 U	27.6 U	28.5 U	29.8 U	27.6 U	26.3 U	28.0 U	25.2 U	27.2 U	321 U	291 U	1,000	HH	1,000	HH
Bis(2-chloroisopropyl) Ether	47.6 U	40.6 U	40.9 U	-	40.5 U	35.2 U	37.6 U	38.7 U	40.6 U	37.6 U	35.7 U	38.2 U	34.4 U	37.0 U	438 U	396 U	1,000	HH	1,000	HH
Bis(2-ethylhexyl) Phthalate	**2,670 J**	**3,240 J**	**995 J**	**4,280 J**	**2,370**	**237 J**	**1,170**	**1,160**	**3,960**	**2,030**	**1,720**	**188 J**	**1,510**	**888**	690 UJ	625 UJ	4,500	Eco	150,000	HH
Butyl Benzyl Phthalate	34.8 U	**67.2 J**	29.9 U	-	29.6 U	25.7 U	27.5 U	**152**	**68.7 J**	27.5 U	26.1 U	**35.2 J**	25.1 U	27.0 U	320 U	289 U	450	Eco	910,000	HH
Carbazole	**425 J**	**577 J**	**281 J**	**2,650 J**	**448**	5.28 U	**205**	**128**	**490**	**2,840**	**1,630**	5.73 U	**1,070**	**592**	**707**	59.4 U	2,260	Eco	1,000,000	HH
Dibenzofuran	**67.7 J**	**89.1 J**	**42.4 J**	**810 J**	**94.9 J**	15.7 U	**21.7 J**	**20.9 J**	**67.1 J**	**419**	**214**	17.0 U	**161**	**83.0 J**	195 U	177 U	2.00	Eco	1,000,000	HH
Diethyl Phthalate	31.1 U	26.6 U	26.7 U	-	26.5 U	23.0 U	24.3 U	25.3 U	**73.4 J**	**28.9 J**	23.4 U	25.0 U	**30.4 J**	**31.8 J**	286 U	259 U	100,000	Eco	490,000,000	HH
Dimethyl Phthalate	20.1 U	17.2 U	17.3 U	-	17.1 U	14.9 U	15.9 U	16.4 U	17.2 U	15.9 U	15.1 U	16.1 U	14.5 U	15.6 U	185 U	168 U	150,000	HH	150,000	HH
Di-n-butyl Phthalate	159 U	136 U	137 U	-	135 UJ	118 UJ	126 UJ	130 UJ	136 UJ	126 UJ	120 UJ	128 UJ	115 UJ	124 UJ	1,460 U	1,330 U	450	Eco	62,000,000	HH
Di-n-octyl Phthalate	47.6 UJ	40.6 UJ	40.9 UJ	-	40.5 UJ	35.2 UJ	37.6 UJ	38.7 UJ	40.6 UJ	37.6 UJ	35.7 UJ	38.2 UJ	34.4 UJ	37.0 UJ	438 U	396 U	450	Eco	150,000	HH
Hexachlorobenzene	20.1 U	17.2 U	17.3 U	-	17.1 U	14.9 U	15.9 U	13.4 U	17.2 U	15.9 U	15.1 U	16.1 U	14.5 U	15.6 U	185 U	168 U	1,800	HH	1,800	HH
Hexachlorobutadiene	16.5 U	14.1 U	14.1 U	-	14.0 U	12.2 U	13.0 U	28.3 U	14.1 U	13.0 U	12.4 U	13.2 U	11.9 U	12.8 U	151 U	137 U	22,000	HH	22,000	HH
Hexachlorocyclopentadiene	25.8 U	22.0 U	22.2 U	-	21.9 U	19.1 U	20.4 U	21.0 U	22.0 U	20.4 U	19.4 U	20.7 U	16.6 U	20.0 U	237 UJ	215 UJ	10,000	Eco	3,700,000	HH
Hexachloroethane	34.8 U	29.7 U	29.9 U	-	29.6 U	25.7 U	27.5 U	16.4 U	29.7 U	27.5 U	26.1 U	27.9 U	25.1 U	27.0 U	320 U	289 U	150,000	HH	150,000	HH
Isophorone	25.6 U	21.9 U	22.0 U	-	21.8 U	19.0 U	20.3 U	20.9 U	21.4 U	20.2 U	19.2 U	20.6 U	18.5 U	19.9 U	236 U	213 U	1,800,000	HH	1,800,000	HH
Nitrobenzene	25.1 U	21.4 U	21.5 U	-	21.3 U	18.5 U	19.8 U	20.4 U	21.4 U	19.8 U	18.8 U	20.1 U	18.1 U	19.5 U	231 U	209 U	8,000	Eco	24,000	HH
N-Nitrosodimethylamine	-	-	-	-	17.1 UJ	10.8 UJ	15.9 UJ	16.4 UJ	17.2 UJ	15.9 UJ	15.1 UJ	16.1 UJ	14.5 UJ	15.6 UJ	135 UJ	168 UJ	34.0	HH	34.0	HH
N-Nitrosodi-n-propylamine	20.1 U	17.2 U	17.3 U	-	17.1 U	14.9 U	15.9 U	16.4 U	17.2 U	15.9 U	15.1 U	16.1 U	14.5 U	15.6 U	185 U	168 U	250	HH	250	HH
N-Nitrosodiphenylamine	-	-	-	-	12.5 U	14.9 U	11.6 U	11.9 U	12.5 U	11.6 U	11.0 U	11.7 U	10.6 U	11.4 U	185 U	122 U	20,000	Eco	350,000	HH
p-cresol (4-Methylphenol)	27.1 U	23.1 U	23.3 U	23.3 U	23.0 U	20.0 U	21.4 U	22.0 U	**64.0 J**	21.4 U	20.3 U	21.7 U	19.6 U	21.0 U	249 UJ	225 UJ	-	-	-	-
Pentachlorophenol	38.4 U	32.8 U	33.0 U	33.0 U	32.7 U	28.4 U	30.4 U	31.3 U	**201**	30.4 U	28.9 U	30.8 U	27.8 U	29.9 U	353 U	320 U	2,100	Eco	13,000	HH
Phenol	36.6 U	31.3 U	31.4 U	31.5 U	31.1 U	27.1 U	28.9 U	29.8 U	31.2 U	28.9 U	27.5 U	29.4 U	26.4 U	28.4 U	337 U	305 U	30,000	Eco	180,000,000	HH

Table 5-2c
2001/2002 Phase II Supplimental Landfill Site InspectionSoil Analytical Results
Semivolatile Organic Compounds
(Page 2 of 2)

Site ID	BIL01TPG	BIL02TPG	BIL03TPG	BIL04TPG	BIL13	BIL14	BIL15	BIL16	BIL17	BIL18	BIL19	BIL20	BIL21	BIL22*	BIL28TPM	BIL29TPM	**Selected SLV[1]**	**SLV Source**	**Selected SLV[1]**	**SLV Source**
Sample ID	011015BIL01TPG	011015BIL02TPG	011015BIL03TPG	011015BIL04TPG	011016BIL13SS	011016BIL14SS	011016BIL15SS	011016BIL16SS	011016BIL17SS	011016BIL18SS	011016BIL19SS	011016BIL20SS	011016BIL21SS	011016BIL22SS	011017BIL28TPM	011017BIL29TPM				
Sample Date	10/15/2001	10/15/2001	10/15/2001	10/15/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/17/2001	10/17/2001				
Site ID	BIL01TPG	BIL02TPG	BIL03TPG	BIL04TPG	BIL13	BIL14	BIL15	BIL16	BIL17	BIL18	BIL19	BIL20	BIL21	BIL22*	BIL28TPM	BIL29TPM				
Sample ID	011015BIL01TPG	011015BIL02TPG	011015BIL03TPG	011015BIL04TPG	011016BIL13SS	011016BIL14SS	011016BIL15SS	011016BIL16SS	011016BIL17SS	011016BIL18SS	011016BIL19SS	011016BIL20SS	011016BIL21SS	011016BIL22SS	011017BIL28TPM	011017BIL29TPM				
Sample Date	10/15/2001	10/15/2001	10/15/2001	10/15/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/16/2001	10/17/2001	10/17/2001				
Sample Depth or Interval (Feet bgs)	0.0-10.0	0.0-10.0	0.0-10.0	0.0-10.0	4.0	6.0	8.0	4.0	1.0	2.0	5.0	8.0	5.0	3.0	0.0-10.0	0.0-10.0	**Selected SLV[1] (0-3 ft bgs)**	**SLV Source (0-3 ft bgs)**	**Selected SLV[1] (>3 ft bgs)**	**SLV Source (>3 ft bgs)**
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)																				
2-Methylnaphthalene	2.86 U	**20.3**	2.45 U	**206 J**	**42.0**	2.11 U	2.26 U	**28.3**	**37.5**	**43.4**	**17.9**	2.29 U	2.06 U	2.22 U	**1,530**	**625**	4,100,000	HH	4,100,000	HH
Acenaphthene	**461**	**616**	**266**	**3,040 J**	**540**	**23.0**	**113**	**87.9**	**323**	**2,530**	6.80 U	7.27 U	**978**	**576**	83.3 U	**168**	19,000,000	HH	19,000,000	HH
Acenaphthylene	7.98 U	**20.3**	6.85 U	**22.0 J**	**65.4**	5.90 U	**27.5**	**35.8**	**78.1**	**111**	5.99 U	6.40 U	**71.4**	**51.4**	73.4 U	66.4 U	23,000	HH	23,000	HH
Anthracene	**1,450**	**1,810**	**891**	**7,550 J**	**872**	**62.3**	**307**	**295**	**773**	**8,440**	**5,640**	3.70 U	**4,650**	**1,780**	**1,750**	**503**	93,000,000	HH	93,000,000	HH
Fluorene	**223**	**349**	**185**	**1,400 J**	**272**	**17.6**	**89.7**	**71.5**	**244**	**1,610**	**977**	6.86 U	**673**	**371**	78.6 U	71.1 U	12,000,000	HH	12,000,000	HH
Naphthalene	**36.6**	**56.3**	7.35 U	**1,710 J**	**82.5**	6.34 U	6.77 U	**34.3**	**78.1**	**176**	**77.0**	6.87 U	**44.9**	**47.8**	**791**	**823**	23,000	HH	23,000	HH
Phenanthrene	**3,560**	**4,280**	**2,240**	**15,600 J**	**3,110**	**194**	**1,240**	**798**	**2,910**	**21,900**	2.93 U	**23.5**	**9,370**	**4,705**	**5,020**	**1,480**	93,000,000	HH	93,000,000	HH
Total LPAHs (KM, capped; NDs at MDL)	NC	NC	NC	NC	NC	NC	NC	NC	**4,406**	**34,767**	NC	NC	NC	**7,531 J**	**7,782 J**	**3,107 J**	29,000	Eco	-	-
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)																				
Benzo(a)anthracene	**6,460**	**8,750**	**4,540**	**13,500 J**	**10,100**	**418**	**3,020**	**4,590**	**9,620**	**28,200**	**31,200**	**173**	**23,100**	**9,420**	**9,780**	92.9 U	2,700	HH	2,700	HH
Benzo(a)pyrene	**7,030**	**8,130**	**6,070**	**12,700 J**	**9,840**	**533**	**3,160**	**3,310**	**10,500**	**34,000**	**19,200**	**135**	**15,800**	**7,695**	**7,100**	35.5 U	270	HH	270	HH
Benzo(g,h,i)perylene	**3,560**	**4,380**	**3,350**	**5,870 J**	**5,060**	**318**	**1,850**	**1,780**	**6,150**	**17,000**	**9,530**	**41.1**	**7,360**	**3,020**	27.8 U	25.1 U	27,000	HH	27,000	HH
Benzofluoranthenes, Total	**10,300 J**	**11,100 J**	**7,480 J**	**16,500 J**	**14,200**	**839**	**5,370**	**7,940**	**14,700**	**31,300**	**8,430**	**197**	**13,900**	**8,490**	**5,100**	**1,080**	2,700	HH	2,700	HH
Chrysene	**6,900**	**8,190**	**5,170**	**13,200 J**	**8,190**	**437**	**2,990**	**3,380**	**8,430**	**35,300 J**	**24,000**	**191 J**	**19,800**	**8,415**	**8,210**	**2,060**	270,000	HH	270,000	HH
Dibenz(a,h)anthracene	**793**	**760**	**498**	**904 J**	**685**	**52.8**	**324**	**280**	**695**	**1,940**	3.20 U	3.42 U	3.08 U	**573**	39.2 U	35.5 U	270	HH	270	HH
Fluoranthene	**11,800**	**16,700**	**10,600**	**33,500 J**	**19,500**	**1,100**	**6,830**	**9,800**	**19,400**	**48,300**	**30,700**	**169**	**25,800**	**17,850**	**13,600**	71.1 U	8,900,000	HH	8,900,000	HH
Indeno(1,2,3-cd)pyrene	**4,610**	**4,240**	**3,790**	**7,660 J**	**6,260**	**382**	**2,140**	**1,990**	**6,990**	**20,000**	**11,300**	**52.8**	**8,930**	**2,033**	39.2 U	35.5 U	2,700	HH	2,700	HH
Pyrene	**14,700**	**20,000**	**12,000**	**33,700 J**	**23,100**	**1,220**	**7,670**	**11,600**	**22,900**	**67,100**	**37,700**	**214**	**31,600**	**24,150**	**15,500**	**2,540**	6,700,000	HH	6,700,000	HH
Total HPAHs (KM, capped; NDs at MDL)	NC	NC	NC	NC	NC	NC	NC	NC	**84,685**	**251,840**	NC	NC	NC	**73,156**	**54,272 J**	**4,750 J**	1,100	Eco	-	-

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
NC = not calculated
SLV = screening level value
- = Not Analyzed

-- = SLV for analyte not available
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of combining primary and field duplicate results at this sampling location as described in Section 5.1.
[1] = Screening based on depth of sample with the exception of Gully Test Pit samples (Site ID suffix = "TPG") and Mercury Vapor Lamp Test Pit samples (Site ID suffix = "TPM"). The Mercury Vapor Lamp Test Pit samples were screened against the the minimum SLV for the two depth ranges. The Gully Test Pit COCs were screened against the minimum SLV for the two depth ranges, except for LPAHs and HPAHs (excluding 2-Methylnaphthalene) which were compared only to >3 ft SLVs due to more recent (2009) surface and subsurface samples that analyzed for a subset of analytes and superceed the Gully Test Pit data for these analytes.

Table 5-2d
2001/2002 Phase II Supplimental Landfill Site Inspection Soil Analytical Results
Samples from Lead "Hot Spot" Areas

Site ID	BIL24*	BIL26	BIL27	BIL30	BIL31	BIL32	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	011017BIL24SS	011017BIL26SS	011017BIL27SS	011017BIL30SS	011017BIL31SS	011017BIL32SS		
Sample Date	10/17/2001	10/17/2001	10/17/2001	10/17/2001	10/17/2001	10/17/2001		
Sample Depth (Feet bgs)	3	2	3	2.5	2.5	2.5		
Metals (mg/kg)								
Lead	**614 J**	**711 J**	**954 J**	**110 J**	**87.6 J**	**115 J**	25.5	UPL

Notes:

mg/kg = milligram per kilogram
bgs = below ground surface
MDL = method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit
- = Not Analyzed
-- = SLV for analyte not available

U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of combining primary and field duplicate results at this sampling location as described in Section 5.1.

Table 5-2e
2001/2002 Phase II Supplimental Landfill Site Inspection Groundwater Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, Butyltins, Herbicides, and Pesticides
(Page 1 of 2)

Site ID	MW-01	MW-02	MW-03	MW-04*	MW-05	MW-06	MW-07	MW-08	MW-09	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	020501BIL02GW	020501BIL03GW	020501BIL05GW	020503BIL06GW	020503BIL09GW	020503BIL08GW	020503BIL10GW	020501BIL01GW	020501BIL04GW				
Sample Date	5/1/2002	5/1/2002	5/1/2002	5/3/2002	5/3/2002	5/3/2002	5/3/2002	5/1/2002	5/1/2002				
Sample Depth (Feet btc)	27.5	29.56	18.21	20.29	24.87	31.06	20.44	58.45	21.08				
Total PCB Aroclors (µg/L)													
Aroclor 1016	0.00222 U	0.00199 U	0.00218 U	0.00206 U	0.00218 U	0.00207 U	0.00233 U	0.00360 U	-	0.0000640	HH	0.0140	Eco
Aroclor 1221	0.00552 U	0.00496 U	0.00542 U	0.00513 U	0.00542 U	0.00515 U	0.00579 U	0.00894 U	-	0.0000640	HH	0.00680	HH
Aroclor 1232	0.00263 U	0.00236 U	0.00258 U	0.00244 U	0.00258 U	0.00245 U	0.00275 U	0.00426 U	-	0.0000640	HH	0.00680	HH
Aroclor 1242	0.00364 U	0.00327 U	0.00358 U	0.00338 U	0.00358 U	0.00340 U	0.00382 U	0.00590 U	-	0.0000640	HH	0.0140	Eco
Aroclor 1248	0.00172 U	0.00155 U	0.00169 U	0.00160 U	0.00169 U	0.00161 U	0.00181 U	0.00279 U	-	0.0000640	HH	0.0140	Eco
Aroclor 1254	0.00222 U	0.00199 U	0.00218 U	0.00206 U	0.00218 U	0.00207 U	0.00233 U	0.00360 U	-	0.0000640	HH	0.0140	Eco
Aroclor 1260	0.00121 U	0.00109 U	0.00119 U	0.00113 U	0.00119 U	0.00113 U	0.00127 U	0.00197 U	-	0.0000640	HH	0.0140	Eco
Total Metals (µg/L)													
Antimony	**1.56 J**	**0.879 J**	3.00 U	**3.89**	**0.798 J**	**1.26 J**	**0.586 J**	**2.98 J**	**0.294 J**	5.60	HH	15.0	HH
Arsenic	**18.9**	**7.00**	**0.138 J**	**2.45**	**3.60**	**9.92**	**17.5**	**1.08**	**0.728 J**	0.0180	HH	0.0380	HH
Barium	**140**	**64.9**	**7.15**	**304**	**50.8**	**139**	**174**	**100**	**128**	1,000	HH	7,300	HH
Beryllium	**0.435 J**	**0.396 J**	0.0142 U	**0.268 J**	0.0142 U	**0.222 J**	**0.344 J**	**0.307 J**	**0.324 J**	-	-	73.0	HH
Cadmium	0.00710 U	0.00710 U	**0.0100 J**	**4.68**	**0.110 J**	0.00710 U	**0.0260 J**	0.00710 U	**1.03**	-	-	18.0	HH
Chromium	**18.5**	**7.43**	1.95 U	**6.01**	1.00 U	**8.64**	**7.51**	**3.36**	**4.73**	-	-	55,000	HH
Copper	**14.3**	**5.08**	**2.34**	**201**	**2.33**	**35.9**	**47.0**	**13.2**	**39.7**	1,300	HH	1,500	HH
Iron	**6,100**	**2,320**	**33.1 J**	**12,200**	**20,600**	**34,000**	**42,900**	**4,560**	**929**	300	HH	26,000	HH
Lead	**7.95**	**2.78**	0.500 U	**78.2**	0.500 U	**3.63**	**4.13**	**1.90**	**1.05**	-	-	15.0	HH
Manganese	**157**	**71.7**	**3.17**	**327**	**2,110**	**2,560**	**2,440**	**411**	**355**	50.0	HH	880	HH
Mercury	0.131 U	0.131 U	0.131 U	0.131 U	0.131 U	0.131 U	0.131 U	0.131 U	0.131 U	-	-	11.0	HH
Nickel	**7.23**	**2.11**	**0.850 J**	**117**	**4.81**	**12.4**	**14.4**	**7.61**	**7.49**	610	HH	730	HH
Selenium	**2.01 J**	0.385 U	0.385 U	0.385 U	0.385 U	**0.530 J**	**0.539 J**	**8.23**	**5.63**	170	HH	180	HH
Silver	**0.154**	0.100 U	0.100 U	**0.658**	0.100 U	**0.108**	**0.131**	**0.0810 J**	0.100 U	-	-	180	HH
Thallium	**0.230 J**	**0.159 J**	**0.159 J**	**0.197 J**	**0.115 J**	**0.230 J**	**0.323 J**	**0.243 J**	**0.166 J**	0.240	HH	2.00	HH
Zinc	**57.6**	**23.7**	**4.27**	**1,745**	**61.6**	**21.5**	**54.8**	**11.2**	**28.9**	7,400	HH	11,000	HH
Total Petroleum Hydrocarbons (µg/L)													
Diesel Range Organics	**122 J**	**131 J**	100 U	**485**	**1,100**	**889**	**567**	**371**	**471**	-	-	90.0	HH
Residual Range Organics	**275 J**	**351 J**	**310 J**	**750**	**1,270**	**1,030**	**708**	**407**	**965**	-	-	290	HH
Gasoline Range Organics	100 U	100 U	100 U	100 U	**63.1 J**	100 U	**281**	100 U	100 U	-	-	100	HH
Total Butyltins (µg/L)													
Dibutyltin	**0.162**	**0.447 J**	**0.0113**	0.00111 U	**0.00501**	**0.0119**	0.00115 U	**0.231**	-	0.0630	Eco	0.0630	Eco
Monobutyltin	**0.0540**	**0.240 J**	**0.00682**	0.00105 U	**0.00449**	**0.00699**	0.00110 U	**0.0189**	-	0.0630	Eco	0.0630	Eco
Tetrabutyltin	0.00119 U	0.00110 U	0.00116 U	0.00111 U	0.00119 U	0.00116 U	0.00115 U	0.00114 U	-	0.0630	Eco	0.0630	Eco
Tributyltin	**0.0233**	**0.0601 J**	**0.0287 J**	0.00156 U	**0.0171**	**0.0213**	0.00163 U	**0.0284**	-	0.0630	Eco	0.0630	Eco

Table 5-2e
2001/2002 Phase II Supplimental Landfill Site Inspection Groundwater Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, Butyltins, Herbicides, and Pesticides
(Page 2 of 2)

Site ID										Selected Discharge to Surface Water / Bioaccumulation	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID													
Sample Date													
Sample Depth (Feet btc)													
Total Herbicides (µg/L)													
2,4,5-T	0.0566 U	0.0566 U	0.0566 U	0.0566 U	0.0566 U	0.0566 U	0.0566 U	0.0566 U	-	36.0	Eco	36.0	Eco
2,4,5-TP (Silvex)	0.0227 U	0.0227 U	0.0277 U	0.0227 U	0.0227 U	0.0227 U	0.0227 U	0.0227 U	-	-	-	290	HH
2,4-D	0.0296 U	0.0296 U	0.0296 U	0.0296 U	0.0296 U	0.0296 U	0.0296 U	0.0296 U	-	4.00	Eco	4.00	Eco
2,4-DB	0.0557 U	0.0577 U	0.0577 U	0.0577 U	0.0577 U	0.0577 U	0.0577 U	0.0577 U	-	-	-	290	HH
4-Nitrophenol	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	**0.840**	-	150	Eco	150	Eco
Dalapon	0.0124 U	0.0124 U	0.0124 U	0.0124 U	0.0124 U	0.0124 U	0.0124 U	0.0124 U	-	-	-	1,100	HH
Dicamba	0.0221 U	0.0221 U	0.0221 U	0.0221 U	0.0221 U	0.0221 U	0.0221 U	0.0221 U	-	10.0	Eco	10.0	Eco
Dichloroprop	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	-	4.00	Eco	4.00	Eco
Dinoseb	0.0292 U	0.0292 U	0.0292 U	0.0292 U	0.0292 U	0.0292 U	0.0292 U	0.0292 U	-	0.0500	Eco	0.0500	Eco
MCPA	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	-	2.60	Eco	2.60	Eco
MCPP	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	-	-	-	37.0	HH
Pentachlorophenol	0.0259 U	0.0259 U	0.0259 U	0.0259 U	0.0259 U	0.0259 U	0.0259 U	**0.112**	-	0.270	HH	0.470	HH
Total Pesticides (µg/L)													
4,4'-DDD	0.000513 UJ	0.000458 UJ	0.000531 U	0.000473 UJ	0.00227 UJ	0.000517 UJ	0.00208 U	0.000646 UJ	-	0.000310	HH	0.00100	Eco
4,4'-DDE	0.000425 UJ	0.000380 UJ	**0.00246 J**	0.000391 UJ	0.00227 UJ	0.000428 UJ	0.00208 U	0.000535 UJ	-	0.000220	HH	0.00100	Eco
4,4'-DDT	0.000544 UJ	0.000486 UJ	0.000563 U	0.000501 UJ	0.00227 UJ	0.000548 UJ	0.00208 U	0.000685 UJ	-	0.000220	HH	0.00100	Eco
Aldrin	0.000125 UJ	0.000111 UJ	0.000129 U	0.000115 UJ	0.00114 UJ	0.000126 UJ	0.00104 U	0.000157 UJ	-	0.0000490	HH	0.00330	HH
BHC (alpha)	0.000401 UJ	0.000358 UJ	0.000414 U	0.000369 UJ	0.00114 UJ	0.000403 UJ	0.00104 U	0.000505 UJ	-	0.00260	HH	0.00900	HH
BHC (beta)	0.000465 UJ	0.000415 UJ	0.000481 U	0.000428 UJ	0.00114 UJ	0.000468 UJ	0.00104 U	0.000586 UJ	-	0.00910	HH	0.0370	HH
BHC (delta)	0.000256 UJ	0.000228 UJ	0.000264 U	0.000235 UJ	0.00114 UJ	0.000257 UJ	0.00104 U	0.000322 UJ	-	0.00260	HH	0.00900	HH
BHC (gamma) Lindane	0.000784 UJ	0.000700 UJ	0.000811 U	0.000722 UJ	0.00114 UJ	0.000789 UJ	0.00104 U	0.000987 UJ	-	0.0800	Eco	0.0520	HH
Chlordane (technical)	0.00349 UJ	0.00312 UJ	0.00361 U	0.00321 UJ	0.0114 UJ	0.00351 UJ	0.0104 U	0.00439 UJ	-	0.000800	HH	0.00430	Eco
Dieldrin	0.000329 UJ	0.000294 UJ	**0.000982 J**	0.000303 UJ	0.00227 UJ	0.000331 UJ	0.00208 U	0.000414 UJ	-	0.0000520	HH	0.00350	HH
Endosulfan I	0.000543 UJ	0.000485 UJ	0.000562 U	0.000500 UJ	0.00114 UJ	0.000547 UJ	0.00104 U	0.000684 UJ	-	0.0560	Eco	0.0560	Eco
Endosulfan II	0.000412 UJ	0.000368 UJ	0.000426 U	0.000380 UJ	0.00227 UJ	0.000415 UJ	0.00208 U	0.000519 UJ	-	0.0560	Eco	0.0560	Eco
Endosulfan Sulfate	0.000585 UJ	0.000523 UJ	0.000605 U	0.000539 UJ	0.00227 UJ	0.000589 UJ	0.00208 U	0.000737 UJ	-	0.0510	Eco	0.0510	Eco
Endrin	0.000337 UJ	0.000301 UJ	0.000349 U	0.000311 UJ	0.00227 UJ	0.000340 UJ	0.00208 U	0.000425 UJ	-	0.0360	Eco	0.0360	Eco
Endrin Aldehyde	0.00106 UJ	0.000947 UJ	0.00110 U	0.000976 UJ	0.00227 UJ	0.00107 UJ	0.00208 U	0.00134 UJ	-	0.150	Eco	0.150	Eco
Endrin Ketone	0.000376 UJ	0.000335 UJ	0.000388 U	0.000346 UJ	0.00227 UJ	0.000378 UJ	0.00208 U	0.000473 UJ	-	0.0590	HH	11.0	HH
Heptachlor	0.000821 UJ	0.000733 UJ	0.000848 U	0.000756 UJ	0.00114 UJ	0.000826 UJ	0.00104 U	0.00103 UJ	-	0.0000790	HH	0.00380	Eco
Heptachlor Epoxide	0.000407 UJ	0.000364 UJ	0.000421 U	0.000375 UJ	0.00114 UJ	0.000410 UJ	0.00104 U	0.000513 UJ	-	0.0000390	HH	0.00380	Eco
Methoxychlor	0.000585 UJ	0.000522 UJ	0.000605 U	0.000539 UJ	0.0114 UJ	0.000589 UJ	0.0104 U	0.000737 UJ	-	0.0300	Eco	0.0300	Eco
Toxaphene	0.0127 UJ	0.0113 UJ	0.0131 U	0.0117 UJ	0.114 UJ	0.0128 UJ	0.104 U	0.0160 UJ	-	0.000280	HH	0.00200	Eco

Notes:

µg/L = microgram per liter
mg/L = milligram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed

-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-2f
2001/2002 Phase II Supplimental Landfill Site Inspection
Groundwater Analytical Results
Volatile Organic Compounds
(Page 1 of 2)

Site ID	MW-01	MW-02	MW-03	MW-04*	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	020501BIL02GW	020501BIL03GW	020501BIL05GW	020503BIL06GW				
Sample Date	5/1/2002	5/1/2002	5/1/2002	5/3/2002				
Sample Depth (Feet btc)	27.5	29.56	18.21	20.29				
Total Volatile Organic Compounds (µg/L)								
1,1,1,2-Tetrachloroethane	0.500 U	0.500 U	0.500 U	0.500 U	186	Eco	0.520	HH
1,1,1-Trichloroethane (TCA)	0.500 U	0.500 U	0.500 U	0.500 U	11.0	Eco	11.0	Eco
1,1,2,2-Tetrachloroethane	0.500 U	0.500 U	0.500 U	0.500 U	0.170	HH	0.0670	HH
1,1,2-Trichloroethane	0.500 U	0.500 U	0.500 U	0.500 U	0.590	HH	0.230	HH
1,1-Dichloroethane	0.500 U	0.500 U	0.500 U	0.500 U	47.0	Eco	2.30	HH
1,1-Dichloroethene	0.500 U	0.500 U	0.500 U	0.500 U	25.0	Eco	25.0	Eco
1,1-Dichloropropene	0.500 U	0.500 U	0.500 U	0.500 U	-	-	0.430	HH
1,2,3-Trichlorobenzene	0.500 U	0.500 U	0.500 U	0.500 U	8.00	Eco	2.30	HH
1,2,3-Trichloropropane	0.500 U	0.500 U	0.500 U	0.500 U	-	-	0.000720	HH
1,2,4-Trichlorobenzene	0.500 U	0.500 U	0.500 U	0.500 U	35.0	HH	2.30	HH
1,2,4-Trimethylbenzene	0.500 U	0.500 U	0.500 U	0.500 U	7.30	Eco	7.30	Eco
1,2-Dibromo-3-chloropropane	0.500 U	0.500 U	0.500 U	0.500 U	-	-	0.000320	HH
1,2-Dibromoethane (EDB)	0.500 U	0.500 U	0.500 U	0.500 U	-	-	0.00630	HH
1,2-Dichlorobenzene	0.500 U	0.500 U	0.500 U	0.500 U	14.0	Eco	14.0	Eco
1,2-Dichloroethane (EDC)	0.500 U	0.500 U	0.500 U	0.500 U	0.380	HH	0.140	HH
1,2-Dichloropropane	0.500 U	0.500 U	0.500 U	0.500 U	0.500	HH	0.390	HH
1,3,5-Trimethylbenzene	0.500 U	0.500 U	0.500 U	0.500 U	7.30	Eco	7.30	Eco
1,3-Dichlorobenzene	0.500 U	0.500 U	0.500 U	0.500 U	71.0	Eco	0.420	HH
1,3-Dichloropropane	0.500 U	0.500 U	0.500 U	0.500 U	5,700	Eco	730	HH
1,4-Dichlorobenzene	0.500 U	0.500 U	0.500 U	0.500 U	15.0	Eco	0.420	HH
2,2-Dichloropropane	0.500 U	0.500 U	0.500 U	0.500 U	0.500	HH	0.390	HH
2-Butanone (MEK)	-	-	-	-	14,000	Eco	7,100	HH
2-Chlorotoluene	0.500 U	0.500 U	0.500 U	0.500 U	-	-	730	HH
2-Hexanone	2.50 U	2.50 U	2.50 U	2.50 U	99.0	Eco	47.0	HH
4-Chlorotoluene	0.500 U	0.500 U	0.500 U	0.500 U	-	-	2,600	HH
4-Isopropyltoluene	0.500 U	0.500 U	0.500 U	0.500 U	-	-	-	-
4-Methyl-2-pentanone (MIBK)	2.50 U	2.50 U	2.50 U	2.50 U	170	Eco	170	Eco
Acetone	2.50 U	2.50 U	2.50 U	2.50 U	1,500	Eco	1,500	Eco
Benzene	0.500 U	0.500 U	0.500 U	0.500 U	2.20	HH	0.390	HH
Bromobenzene	0.500 U	0.500 U	0.500 U	0.500 U	-	-	88.0	HH
Bromochloromethane	0.500 U	0.500 U	0.500 U	0.500 U	0.550	HH	0.120	HH
Bromodichloromethane	0.500 U	0.500 U	0.500 U	0.500 U	0.550	HH	0.120	HH
Bromoform	0.500 U	0.500 U	0.500 U	0.500 U	4.30	HH	7.20	HH
Bromomethane	1.00 U	1.00 U	1.00 U	1.00 U	16.0	Eco	8.70	HH
Carbon Disulfide	0.500 U	0.500 U	0.500 U	0.500 U	0.920	Eco	0.920	Eco
Carbon Tetrachloride	0.500 U	0.500 U	0.500 U	0.500 U	0.230	HH	0.190	HH
Chlorobenzene	0.500 U	0.500 U	0.500 U	0.500 U	50.0	Eco	50.0	Eco
Chloroethane	0.500 U	0.500 U	0.500 U	0.500 U	-	-	21,000	HH
Chloroform	0.500 U	0.500 U	0.500 U	**1.78**	5.70	HH	0.190	HH
Chloromethane	0.500 U	0.500 U	0.500 U	0.500 U	-	-	190	HH
cis-1,2-Dichloroethene	0.500 U	0.500 U	0.500 U	0.500 U	590	Eco	360	HH
cis-1,3-Dichloropropene	0.500 U	0.500 U	0.500 U	0.500 U	0.0550	Eco	0.0550	Eco
Dibromochloromethane	0.500 U	0.500 U	0.500 U	0.500 U	0.400	HH	0.680	HH
Dibromomethane	0.500 U	0.500 U	0.500 U	0.500 U	-	-	8.20	HH
Dichlorodifluoromethane	0.500 U	0.500 U	0.500 U	0.500 U	-	-	390	HH
Dichloromethane (Methylene Chloride)	0.500 U	0.500 U	0.500 U	0.500 U	4.60	HH	4.40	HH
Ethylbenzene	0.500 U	0.500 U	0.500 U	0.500 U	7.30	Eco	1.40	HH
Hexachlorobutadiene	0.500 U	0.500 U	0.500 U	0.500 U	0.440	HH	0.860	HH
Isopropylbenzene	0.500 U	0.500 U	0.500 U	0.500 U	7.30	Eco	7.30	Eco
m,p-Xylenes	1.00 U	1.00 U	1.00 U	1.00 U	13.0	Eco	13.0	Eco
Naphthalene	0.500 U	0.500 U	0.500 U	0.500 U	620	Eco	0.140	HH
n-Butylbenzene	0.500 U	0.500 U	0.500 U	0.500 U	-	-	-	-
n-Propylbenzene	0.500 U	0.500 U	0.500 U	0.500 U	7.30	Eco	7.30	Eco
o-Xylene	0.500 U	0.500 U	0.500 U	0.500 U	350	Eco	350	Eco
sec-Butylbenzene	0.500 U	0.500 U	0.500 U	0.500 U	-	-	-	-
Styrene	0.500 U	0.500 U	0.500 U	0.500 U	72.0	Eco	72.0	Eco
tert-Butylbenzene	0.500 U	0.500 U	0.500 U	0.500 U	-	-	-	-
Tetrachloroethene (PCE)	0.500 U	0.500 U	**8.78**	0.500 U	0.690	HH	0.0930	HH
Toluene	0.500 U	0.500 U	0.500 U	0.500 U	9.80	Eco	9.80	Eco
trans-1,2-Dichloroethene	0.500 U	0.500 U	0.500 U	0.500 U	140	HH	110	HH
trans-1,3-Dichloropropene	0.500 U	0.500 U	0.500 U	0.500 U	0.0550	Eco	0.0550	Eco
Trichloroethene (TCE)	0.500 U	0.500 U	0.500 U	0.500 U	2.50	HH	0.0390	HH
Trichlorofluoromethane	0.500 U	0.500 U	0.500 U	0.500 U	-	-	1,300	HH
Vinyl Acetate	2.50 U	2.50 U	2.50 U	2.50 U	16.0	Eco	16.0	Eco
Vinyl Chloride	0.500 U	0.500 U	0.500 U	0.500 U	0.0250	HH	0.0250	HH

Notes:

µg/L = microgram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
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bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-2f
2001/2002 Phase II Supplimental Landfill Site Inspection
Groundwater Analytical Results
Volatile Organic Compounds
(Page 2 of 2)

Site ID	MW-05	MW-06	MW-07	MW-08	MW-09	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	020503BIL09GW	020503BIL08GW	020503BIL10GW	020501BIL01GW	020501BIL04GW				
Sample Date	5/3/2002	5/3/2002	5/3/2002	5/1/2002	5/1/2002				
Sample Depth (Feet btc)	24.87	31.06	20.44	58.45	21.08				
Total Volatile Organic Compounds (µg/L)									
1,1,1,2-Tetrachloroethane	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	186	Eco	0.520	HH
1,1,1-Trichloroethane (TCA)	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	11.0	Eco	11.0	Eco
1,1,2,2-Tetrachloroethane	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.170	HH	0.0670	HH
1,1,2-Trichloroethane	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.590	HH	0.230	HH
1,1-Dichloroethane	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	47.0	Eco	2.30	HH
1,1-Dichloroethene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	25.0	Eco	25.0	Eco
1,1-Dichloropropene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	-	-	0.430	HH
1,2,3-Trichlorobenzene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	8.00	Eco	2.30	HH
1,2,3-Trichloropropane	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	-	-	0.000720	HH
1,2,4-Trichlorobenzene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	35.0	HH	2.30	HH
1,2,4-Trimethylbenzene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	7.30	Eco	7.30	Eco
1,2-Dibromo-3-chloropropane	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	-	-	0.000320	HH
1,2-Dibromoethane (EDB)	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	-	-	0.00630	HH
1,2-Dichlorobenzene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	14.0	Eco	14.0	Eco
1,2-Dichloroethane (EDC)	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.380	HH	0.140	HH
1,2-Dichloropropane	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500	HH	0.390	HH
1,3,5-Trimethylbenzene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	7.30	Eco	7.30	Eco
1,3-Dichlorobenzene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	71.0	Eco	0.420	HH
1,3-Dichloropropane	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	5,700	Eco	730	HH
1,4-Dichlorobenzene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	15.0	Eco	0.420	HH
2,2-Dichloropropane	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500	HH	0.390	HH
2-Butanone (MEK)	-	-	2.50 U	-	-	14,000	Eco	7,100	HH
2-Chlorotoluene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	-	-	730	HH
2-Hexanone	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	99.0	Eco	47.0	HH
4-Chlorotoluene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	-	-	2,600	HH
4-Isopropyltoluene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	-	-	-	-
4-Methyl-2-pentanone (MIBK)	2.50 U	2.50 U	2.50 U	**3.04 J**	2.50 U	170	Eco	170	Eco
Acetone	**14.7**	2.50 U	**8.39**	**14.4**	**15.4**	1,500	Eco	1,500	Eco
Benzene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	2.20	HH	0.390	HH
Bromobenzene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	-	-	88.0	HH
Bromochloromethane	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.550	HH	0.120	HH
Bromodichloromethane	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.550	HH	0.120	HH
Bromoform	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	4.30	HH	7.20	HH
Bromomethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	16.0	Eco	8.70	HH
Carbon Disulfide	0.500 U	0.500 U	0.500 U	0.500 U	**3.95**	0.920	Eco	0.920	Eco
Carbon Tetrachloride	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.230	HH	0.190	HH
Chlorobenzene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	50.0	Eco	50.0	Eco
Chloroethane	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	-	-	21,000	HH
Chloroform	0.500 U	0.500 U	0.500 U	0.500 U	**0.609 J**	5.70	HH	0.190	HH
Chloromethane	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	-	-	190	HH
cis-1,2-Dichloroethene	0.500 U	0.500 U	**0.791 J**	0.500 U	0.500 U	590	Eco	360	HH
cis-1,3-Dichloropropene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.0550	Eco	0.0550	Eco
Dibromochloromethane	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.400	HH	0.680	HH
Dibromomethane	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	-	-	8.20	HH
Dichlorodifluoromethane	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	-	-	390	HH
Dichloromethane (Methylene Chloride)	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	4.60	HH	4.40	HH
Ethylbenzene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	7.30	Eco	1.40	HH
Hexachlorobutadiene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.440	HH	0.860	HH
Isopropylbenzene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	7.30	Eco	7.30	Eco
m,p-Xylenes	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	13.0	Eco	13.0	Eco
Naphthalene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	620	Eco	0.140	HH
n-Butylbenzene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	-	-	-	-
n-Propylbenzene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	7.30	Eco	7.30	Eco
o-Xylene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	350	Eco	350	Eco
sec-Butylbenzene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	-	-	-	-
Styrene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	72.0	Eco	72.0	Eco
tert-Butylbenzene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	-	-	-	-
Tetrachloroethene (PCE)	0.500 U	0.500 U	0.500 U	0.500 U	**1.95**	0.690	HH	0.0930	HH
Toluene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	9.80	Eco	9.80	Eco
trans-1,2-Dichloroethene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	140	HH	110	HH
trans-1,3-Dichloropropene	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.0550	Eco	0.0550	Eco
Trichloroethene (TCE)	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	2.50	HH	0.0390	HH
Trichlorofluoromethane	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	-	-	1,300	HH
Vinyl Acetate	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	16.0	Eco	16.0	Eco
Vinyl Chloride	**0.531 J**	0.500 U	**0.507 J**	0.500 U	0.500 U	0.0250	HH	0.0250	HH

Notes:

µg/L = microgram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-2g
2001/2002 Phase II Supplimental Landfill Site Inspection Groundwater Analytical Results
Semivolatile Organic Compounds
(Page 1 of 2)

Site ID	MW-01	MW-02	MW-03	MW-04*	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	020501BIL02GW	020501BIL03GW	020501BIL05GW	020503BIL06GW				
Sample Date	5/1/2002	5/1/2002	5/1/2002	5/3/2002				
Sample Depth (Feet btc)	27.5	29.56	18.21	20.29				
Total Semivolatile Organic Compounds (µg/L)								
1,2,4-Trichlorobenzene	0.0183 U	0.0197 U	0.0183 U	0.0100 U	35.0	HH	2.30	HH
1,2-Dichlorobenzene	0.0183 U	0.0197 U	0.0183 U	0.0160 U	14.0	Eco	14.0	Eco
1,3-Dichlorobenzene	0.0195 U	0.0209 U	0.0195 U	0.0170 U	71.0	Eco	0.420	HH
1,4-Dichlorobenzene	0.0172 U	0.0185 U	**0.0601 J**	0.0150 U	15.0	Eco	0.420	HH
2,4,5-Trichlorophenol	0.0126 U	0.0135 U	0.0126 U	0.0110 U	18.0	Eco	18.0	Eco
2,4,6-Trichlorophenol	0.0138 U	0.0148 U	0.0137 U	0.0120 U	1.40	HH	5.20	HH
2,4-Dichlorophenol	0.0172 U	0.0185 U	0.0172 U	0.0150 U	77.0	HH	110	HH
2,4-Dimethylphenol	0.0172 U	0.0185 U	0.0172 U	0.0150 U	42.0	Eco	42.0	Eco
2,4-Dinitrophenol	0.0344 U	0.0369 U	0.0344 U	0.0300 U	19.0	Eco	19.0	Eco
2,4-Dinitrotoluene	0.0149 U	0.0160 U	0.0149 U	0.0130 U	0.110	HH	0.220	HH
2,6-Dinitrotoluene	0.0229 U	0.0246 U	0.0229 U	0.0200 U	230	Eco	37.0	HH
2-Chloronaphthalene	0.00172 U	0.00185 U	0.00172 U	0.00150 U	32.0	Eco	32.0	Eco
2-Chlorophenol	0.0195 U	0.0209 U	0.0195 U	0.0170 U	81.0	HH	180	HH
2-Methylphenol	0.0275 U	0.0296 U	0.0275 U	0.0240 U	13.0	Eco	13.0	Eco
2-Nitroaniline	0.0206 U	0.0222 U	0.0206 U	0.0180 U	-	-	370	HH
2-Nitrophenol	0.0252 U	0.0271 U	0.0252 U	0.0220 U	10,000	HH	11,000	HH
3,3'-Dichlorobenzidine	0.0413 U	0.0443 U	0.0412 U	0.0360 U	0.0210	HH	0.130	HH
3-Nitroaniline	0.0378 U	0.0406 U	0.0378 U	0.0330 U	-	-	3.40	HH
4,6-Dinitro-2-methylphenol	0.0252 U	0.0271 U	0.0252 U	0.0220 U	13.0	HH	2.90	HH
4-Bromophenyl Phenyl Ether	0.0138 U	0.0148 U	0.0137 U	0.0120 U	1.50	Eco	1.50	Eco
4-Chloro-3-methylphenol	0.0619 U	0.0665 U	0.0619 U	0.0540 U	-	-	3700	HH
4-Chloroaniline	0.0447 U	0.0480 U	0.0447 U	0.0390 U	50.0	Eco	0.340	HH
4-Chlorophenyl Phenyl Ether	0.0172 U	0.0185 U	0.0172 U	0.0150 U	-	-	-	-
4-Nitroaniline	0.0241 U	0.0259 U	0.0241 U	0.0210 U	-	-	3.40	HH
4-Nitrophenol	0.0333 U	0.0357 U	0.0332 U	0.0290 U	150	Eco	150	Eco
Aniline	0.0573 U	0.0000616 U	0.0573 U	0.0500 U	2.20	Eco	2.20	Eco
Benzidine	0.0275 U	0.0296 U	0.0275 U	0.0240 U	0.0000860	HH	0.720	HH
Benzoic Acid	0.0229 U	0.0246 U	0.0229 U	0.0200 U	42.0	Eco	42.0	Eco
Benzyl Alcohol	0.0367 U	0.0394 U	0.0367 U	0.0320 U	8.60	Eco	8.60	Eco
Bis(2-chloroethoxy)methane	0.0206 U	0.0222 U	0.0206 U	0.0180 U	-	-	110	HH
Bis(2-chloroethyl) Ether	0.0218 U	0.0234 U	0.0218 U	0.0190 U	0.0300	HH	0.0120	HH
Bis(2-chloroisopropyl) Ether	0.0241 U	0.0259 U	0.0241 U	0.0210 U	1,400	HH	-	-
Bis(2-ethylhexyl) Phthalate	0.0745 U	0.0800 U	0.0745 U	**1.79**	1.20	HH	3.00	Eco
Butyl Benzyl Phthalate	0.214 U	0.230 U	0.214 U	0.187 U	19.0	Eco	19.0	Eco
Carbazole	0.00321 U	0.00345 U	0.00321 U	0.00280 U	-	-	-	-
Dibenzofuran	0.0161 U	0.0172 U	0.0160 U	0.0140 U	3.70	Eco	3.70	Eco
Diethyl Phthalate	0.0665 U	0.0714 U	0.0664 U	**0.192**	210	Eco	210	Eco
Dimethyl Phthalate	0.0183 U	0.0197 U	0.0183 U	0.0160 U	3.00	Eco	3.00	Eco
Di-n-butyl Phthalate	0.265 U	0.284 U	0.265 U	0.231 U	35.0	Eco	35.0	Eco
Di-n-octyl Phthalate	0.0390 U	0.0419 U	0.0389 U	**2.85**	1.20	HH	4.10	HH
Hexachlorobenzene	0.0229 U	0.0248 U	0.0229 U	0.0200 U	0.000280	HH	0.000300	Eco
Hexachlorobutadiene	0.0333 U	0.0357 U	0.0332 U	0.0290 U	0.440	HH	0.860	HH
Hexachlorocyclopentadiene	0.0298 U	0.0320 U	0.0298 U	0.0260 U	5.20	Eco	5.20	Eco
Hexachloroethane	0.0459 U	0.0493 U	0.0458 U	0.0400 U	1.40	HH	4.10	HH
Isophorone	**0.282**	**0.116 J**	0.0206 U	0.0180 U	35.0	HH	71.0	HH
Nitrobenzene	0.0516 U	0.0554 U	0.0515 U	0.0450 U	17.0	HH	0.120	HH
N-Nitrosodimethylamine	0.0378 U	0.0123 U	0.0378 U	0.0330 U	0.000690	HH	0.000420	HH
N-Nitrosodi-n-propylamine	0.0241 U	0.0259 U	0.0241 U	0.0210 U	0.00500	HH	0.00960	HH
N-Nitrosodiphenylamine	0.0115 U	0.0406 U	0.0115 U	0.0100 U	3.30	HH	14.0	HH
p-cresol (4-Methylphenol)	0.0264 U	0.0283 U	0.0263 U	0.0230 U	-	-	-	-
Pentachlorophenol	0.0195 U	0.0209 U	0.0195 U	0.0170 U	0.270	HH	0.470	HH
Phenol	0.0367 U	0.0394 U	0.0367 U	0.0320 U	110	Eco	110	Eco
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/L)								
2-Methylnaphthalene	**0.0385 J**	0.0185 U	0.0172 U	**0.233 J**	72.2	Eco	72.2	Eco
Acenaphthene	0.00183 U	0.00197 U	0.00183 U	0.00160 U	520	Eco	520	Eco
Acenaphthylene	0.00172 U	0.00185 U	0.00172 U	0.00150 U	307	Eco	0.140	HH
Anthracene	**0.0589**	0.00185 U	0.00172 U	0.00150 U	13.0	Eco	13.0	Eco
Fluorene	0.00161 U	0.00172 U	0.00160 U	0.00140 U	3.90	Eco	3.90	Eco
Naphthalene	**0.157**	0.00271 U	0.00252 U	**0.0400**	620	Eco	0.140	HH
Phenanthrene	**0.0800**	0.00271 U	0.00252 U	**0.211**	6.30	Eco	0.140	HH
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/L)								
Benzo(a)anthracene	0.00505 U	0.00542 U	0.00504 U	0.00440 U	0.00380	HH	0.0270	Eco
Benzo(a)pyrene	0.00539 U	0.00579 U	0.00538 U	0.00470 U	0.00380	HH	0.00290	HH
Benzo(g,h,i)perylene	0.00390 U	0.00419 U	0.00389 U	0.00340 U	0.380	HH	0.290	HH
Benzofluoranthenes, Total	0.00436 U	0.00468 U	0.00435 U	0.00380 U	0.00380	HH	0.01400	Eco
Chrysene	0.00287 U	0.00308 U	0.00286 U	0.00250 U	0.00380	HH	2.04	Eco
Dibenz(a,h)anthracene	0.00310 U	0.00333 U	0.00309 U	0.00270 U	0.0180	HH	0.00290	HH
Fluoranthene	0.00218 U	0.00234 U	0.00218 U	0.00190 U	6.16	Eco	6.16	Eco
Indeno(1,2,3-cd)pyrene	0.00344 U	0.00369 U	0.00344 U	0.00300 U	0.00380	HH	0.0290	HH
Pyrene	0.00161 U	0.00172 U	0.00160 U	0.00140 U	10.1	Eco	10.1	Eco

Notes:

µg/L = microgram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-2g
2001/2002 Phase II Supplimental Landfill Site Inspection Groundwater Analytical Results
Semivolatile Organic Compounds
(Page 2 of 2)

Site ID	MW-05	MW-06	MW-07	MW-08	MW-09	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	020503BIL09GW	020503BIL08GW	020503BIL10GW	020501BIL01GW	020501BIL04GW				
Sample Date	5/3/2002	5/3/2002	5/3/2002	5/1/2002	5/1/2002				
Sample Depth (Feet btc)	24.87	31.06	20.44	58.45	21.08				
Total Semivolatile Organic Compounds (µg/L)									
1,2,4-Trichlorobenzene	0.0179 U	0.184 U	0.0170 U	0.0160 UJ	0.227 U	35.0	HH	2.30	HH
1,2-Dichlorobenzene	0.0179 U	0.184 U	0.0170 U	0.0160 UJ	0.227 U	14.0	Eco	14.0	Eco
1,3-Dichlorobenzene	0.0191 U	0.196 U	0.0181 U	0.0170 UJ	0.241 U	71.0	Eco	0.420	HH
1,4-Dichlorobenzene	**0.0258 J**	0.173 U	0.0160 U	0.0150 UJ	0.213 U	15.0	Eco	0.420	HH
2,4,5-Trichlorophenol	0.0123 U	0.127 U	0.0117 U	0.0110 U	0.156 U	18.0	Eco	18.0	Eco
2,4,6-Trichlorophenol	0.0135 U	0.138 U	0.0128 U	0.0120 U	0.170 U	1.40	HH	5.20	HH
2,4-Dichlorophenol	0.0168 U	0.173 U	0.0160 U	0.0150 U	0.213 U	77.0	HH	110	HH
2,4-Dimethylphenol	0.0168 U	0.173 U	0.0160 U	0.0150 U	0.213 U	42.0	Eco	42.0	Eco
2,4-Dinitrophenol	0.0336 U	0.345 U	0.0319 U	0.0300 U	0.426 U	19.0	Eco	19.0	Eco
2,4-Dinitrotoluene	0.0146 U	0.150 U	0.0138 U	0.0130 UJ	0.185 U	0.110	HH	0.220	HH
2,6-Dinitrotoluene	0.0224 U	0.230 U	0.0213 U	0.0200 UJ	0.284 U	230	Eco	37.0	HH
2-Chloronaphthalene	0.00168 U	0.0173 U	0.00160 U	0.00150 UJ	0.0213 U	32.0	Eco	32.0	Eco
2-Chlorophenol	0.0191 U	0.196 U	0.0181 U	0.0170 U	0.241 U	81.0	HH	180	HH
2-Methylphenol	0.0269 U	0.276 U	0.0256 U	0.0240 U	0.341 U	13.0	Eco	13.0	Eco
2-Nitroaniline	0.0202 U	0.207 U	0.0192 U	0.0180 UJ	0.256 U	-	-	370	HH
2-Nitrophenol	0.0247 U	0.253 U	0.0234 U	0.0220 U	0.313 U	10,000	HH	11,000	HH
3,3'-Dichlorobenzidine	0.0404 U	0.414 U	0.0383 U	0.0360 UJ	0.511 U	0.0210	HH	0.130	HH
3-Nitroaniline	0.0370 U	0.380 U	0.0351 U	0.0330 UJ	0.469 U	-	-	3.40	HH
4,6-Dinitro-2-methylphenol	0.0247 U	0.253 U	0.0234 U	0.0220 U	0.313 U	13.0	HH	2.90	HH
4-Bromophenyl Phenyl Ether	0.0135 U	0.138 U	0.0128 U	0.0120 UJ	0.284 U	1.50	Eco	1.50	Eco
4-Chloro-3-methylphenol	0.0605 U	0.621 U	0.0575 U	0.0539 U	0.767 U	-	-	3700	HH
4-Chloroaniline	0.0437 U	0.449 U	0.0415 U	0.0390 UJ	0.554 U	50.0	Eco	0.340	HH
4-Chlorophenyl Phenyl Ether	0.0168 U	0.173 U	0.0160 U	0.0150 UJ	0.213 U	-	-	-	-
4-Nitroaniline	0.0235 U	0.242 U	0.0224 U	0.0210 UJ	0.298 U	-	-	3.40	HH
4-Nitrophenol	0.0325 U	-	0.0309 U	0.0290 U	0.412 U	150	Eco	150	Eco
Aniline	0.0561 U	0.575 U	0.0532 U	0.0500 UJ	0.710 U	2.20	Eco	2.20	Eco
Benzidine	0.0269 U	0.276 U	0.0252 U	0.0240 UJ	0.341 U	0.0000860	HH	0.720	HH
Benzoic Acid	0.0224 U	0.230 U	0.0213 U	0.0200 UJ	0.284 U	42.0	Eco	42.0	Eco
Benzyl Alcohol	0.0359 U	0.398 U	0.0341 U	0.0320 U	0.455 U	8.60	Eco	8.60	Eco
Bis(2-chloroethoxy)methane	0.0202 U	0.207 U	0.0192 U	0.0180 UJ	0.256 U	-	-	110	HH
Bis(2-chloroethyl) Ether	0.0213 U	0.219 U	0.0202 U	0.0190 UJ	0.270 U	0.0300	HH	0.0120	HH
Bis(2-chloroisopropyl) Ether	0.0235 U	0.242 U	0.0224 U	0.0210 UJ	0.298 U	1,400	HH	-	-
Bis(2-ethylhexyl) Phthalate	0.0729 U	0.748 U	0.0692 U	0.0649 UJ	0.923 U	1.20	HH	3.00	Eco
Butyl Benzyl Phthalate	0.210 U	2.15 U	0.199 U	0.187 UJ	2.66 U	19.0	Eco	19.0	Eco
Carbazole	0.00314 U	0.0322 U	0.00298 U	0.00280 UJ	0.0398 U	-	-	-	-
Dibenzofuran	0.0157 U	0.161 U	0.0149 U	0.0140 UJ	0.199 U	3.70	Eco	3.70	Eco
Diethyl Phthalate	0.0650 U	**1.90**	0.0618 U	0.0579 UJ	**1.03 J**	210	Eco	210	Eco
Dimethyl Phthalate	0.0179 U	0.184 U	0.0170 U	**0.235 J**	0.227 U	3.00	Eco	3.00	Eco
Di-n-butyl Phthalate	0.259 U	2.66 U	0.246 U	0.231 UJ	3.28 U	35.0	Eco	35.0	Eco
Di-n-octyl Phthalate	0.0381 U	**5.29**	0.0362 U	0.0340 UJ	**7.08**	1.20	HH	4.10	HH
Hexachlorobenzene	0.0224 U	0.230 U	0.0213 U	0.0200 UJ	0.284 U	0.000280	HH	0.000300	Eco
Hexachlorobutadiene	0.0325 U	0.334 U	0.0309 U	0.0290 UJ	0.412 U	0.440	HH	0.860	HH
Hexachlorocyclopentadiene	0.0291 U	0.229 U	0.0277 U	0.0260 UJ	0.369 U	5.20	Eco	5.20	Eco
Hexachloroethane	0.0448 U	0.460 U	0.0426 U	0.0400 UJ	0.568 U	1.40	HH	4.10	HH
Isophorone	0.0202 U	0.207 U	0.0192 U	0.0180 UJ	0.256 U	35.0	HH	71.0	HH
Nitrobenzene	0.0504 U	0.518 U	0.0479 U	0.0450 UJ	0.639 U	17.0	HH	0.120	HH
N-Nitrosodimethylamine	0.0370 U	0.380 U	0.0351 U	0.00330 UJ	0.469 U	0.000690	HH	0.000420	HH
N-Nitrosodi-n-propylamine	0.0235 U	0.242 U	0.0224 U	0.0210 UJ	0.298 U	0.00500	HH	0.00960	HH
N-Nitrosodiphenylamine	0.0112 U	0.115 U	0.0106 U	0.00999 UJ	0.142 U	3.30	HH	14.0	HH
p-cresol (4-Methylphenol)	0.0258 U	0.265 U	0.0245 U	0.0230 U	0.327 U	-	-	-	-
Pentachlorophenol	0.0191 U	0.196 U	0.0181 U	0.0170 U	0.241 U	0.270	HH	0.470	HH
Phenol	0.0359 U	**0.382 J**	0.0341 U	0.0320 U	0.455 U	110	Eco	110	Eco
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/L)									
2-Methylnaphthalene	0.0168 U	0.173 U	**0.0939 J**	0.0150 UJ	**0.360 J**	72.2	Eco	72.2	Eco
Acenaphthene	**0.111**	0.0184 U	0.00170 U	0.00160 UJ	**0.239**	520	Eco	520	Eco
Acenaphthylene	0.00168 U	0.0173 U	0.00160 U	0.00150 UJ	0.0213 U	307	Eco	0.140	HH
Anthracene	0.00168 U	0.0173 U	0.00160 U	0.00150 UJ	0.0213 U	13.0	Eco	13.0	Eco
Fluorene	0.00157 U	0.0161 U	0.00149 U	0.00140 UJ	0.0199 U	3.90	Eco	3.90	Eco
Naphthalene	**0.101**	0.0253 U	0.00234 U	0.00220 UJ	0.0313 U	620	Eco	0.140	HH
Phenanthrene	0.00247 U	0.0253 U	0.00234 U	0.00220 UJ	0.0313 U	6.30	Eco	0.140	HH
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/L)									
Benzo(a)anthracene	*0.00493 U*	*0.0506 U*	*0.00426 U*	*0.00440 UJ*	*0.0625 U*	0.00380	HH	0.0270	Eco
Benzo(a)pyrene	0.00527 U	0.0541 U	0.00501 U	0.00470 UJ	0.0668 U	0.00380	HH	0.00290	HH
Benzo(g,h,i)perylene	*0.00381 U*	*0.0391 U*	*0.00362 U*	*0.00340 UJ*	*0.0483 U*	0.380	HH	0.290	HH
Benzofluoranthenes, Total	0.00426 U	0.0437 U	0.00405 U	0.00380 UJ	0.0540 U	0.00380	HH	0.01400	Eco
Chrysene	*0.00280 U*	*0.0288 U*	*0.00266 U*	*0.00250 UJ*	*0.0355 U*	0.00380	HH	2.04	Eco
Dibenz(a,h)anthracene	0.00303 U	0.0311 U	0.00288 U	0.00270 UJ	0.0384 U	0.0180	HH	0.00290	HH
Fluoranthene	0.00213 U	0.0219 U	0.00202 U	0.00190 UJ	0.0270 U	6.16	Eco	6.16	Eco
Indeno(1,2,3-cd)pyrene	0.00336 U	0.0345 U	0.00319 U	0.00300 UJ	0.0426 U	0.00380	HH	0.0290	HH
Pyrene	0.00157 U	0.0161 U	0.00149 U	0.00140 UJ	0.0199 U	10.1	Eco	10.1	Eco

Notes:

µg/L = microgram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-3a
2007 Upland Source Evaluation Soil Analytical Results
PCB Aroclors, Metals, and Pesticides

Site ID	BIL01USE	BIL02USE	BIL03USE	BIL04USE	BIL05USE	BIL06USE	BIL07USE	BIL08USE	BIL09USE	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	070410BIL01SS	070410BIL02SS	070410BIL03SS	070410BIL04SS	070410BIL05SS	070410BIL06SS	070410BIL07SS	070410BIL08SS	070410BIL09SS		
Sample Date	4/10/2007	4/10/2007	4/10/2007	4/10/2007	4/10/2007	4/10/2007	4/10/2007	4/10/2007	4/10/2007		
Sample Depth (Feet bgs)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
PCB Aroclors (µg/kg dry)											
Aroclor 1016	*3.90 U*	*3.90 U*	*3.90 U*	*3.90 U*	*4.00 U*	*3.90 U*	*3.90 U*	*4.00 U*	*3.80 U*	371	Eco
Aroclor 1221	*3.90 U*	*3.90 U*	*3.90 U*	*3.90 U*	*4.00 U*	*3.90 U*	*3.90 U*	*4.00 U*	*3.80 U*	371	Eco
Aroclor 1232	*3.90 U*	*3.90 U*	*3.90 U*	*3.90 U*	*4.00 U*	*3.90 U*	*3.90 U*	*4.00 U*	*3.80 U*	371	Eco
Aroclor 1242	*3.90 U*	*3.90 U*	*3.90 U*	*3.90 U*	*4.00 U*	*3.90 U*	*3.90 U*	*4.00 U*	*3.80 U*	371	Eco
Aroclor 1248	3.90 U	3.90 U	3.90 U	3.90 U	4.00 U	3.90 U	3.90 U	4.00 U	3.80 U	371	Eco
Aroclor 1254	**26.0**	**27.0**	**19.0**	**8.30**	4.00 U	19.0 U	**49.0**	**24.0**	**5.50**	371	Eco
Aroclor 1260	**50.0**	**24.0**	**31.0 J**	**33.0**	**12.0**	**92.0**	**74.0**	**42.0**	**19.0**	371	Eco
Total PCBs as Aroclors (NDs at MDL)[1]	**79.9 J**	**54.9 J**	**53.9 J**	**45.2 J**	**20.0 J**	**115 J**	**127 J**	**70.0 J**	**28.3 J**	371	Eco
Metals (mg/kg dry)											
Aluminum	**17,400 J**	**19,100 J**	**17,400 J**	**10,500 J**	**10,800 J**	**11,200 J**	**14,800 J**	**15,500 J**	**16,000 J**	31,400	UPL
Antimony	0.300 UJ	0.200 UJ	0.200 UJ	0.200 UJ	0.200 UJ	0.200 UJ	0.300 UJ	0.300 UJ	0.300 UJ	0.270	Eco
Arsenic	**5.10**	**6.10**	**6.20**	**3.70**	**3.30**	**4.00**	**3.20**	**3.70**	**4.50**	5.40	UPL
Barium	**136**	**99.3**	**95.1**	**115**	**120**	**115**	**107**	**97.8**	**130**	330	Eco
Beryllium	**0.400**	**0.400**	**0.500**	**0.300**	**0.300**	**0.300**	**0.300**	**0.400**	**0.400**	21.0	Eco
Cadmium	**0.540**	**0.660**	**0.940**	**0.570**	**0.570**	**1.30**	**0.720**	**0.670**	**1.70**	0.360	Eco
Calcium	**6,920**	**6,680**	**6,710**	**4,770**	**4,500**	**4,380**	**6,060**	**5,840**	**5,410**	10,400	UPL
Chromium	**28.6**	**30.1**	**23.0**	**15.6**	**16.1**	**16.9**	**801**	**117**	**22.0**	28.1	UPL
Cobalt	**15.3 J**	**9.60 J**	**11.5 J**	**6.60 J**	**6.40 J**	**8.30 J**	**22.7 J**	**10.7 J**	**8.50 J**	19.9	UPL
Copper	**54.9**	**45.7**	**45.4**	**28.4**	**24.4**	**60.5**	**41.3**	**52.1**	**39.1**	56.7	UPL
Iron	**28,000 J**	**28,000 J**	**32,100 J**	**19,600 J**	**19,600 J**	**20,500 J**	**38,800 J**	**26,400 J**	**25,100 J**	36,900	UPL
Lead	**119 J**	**147 J**	**131 J**	**51.0 J**	**49.0 J**	**148 J**	**680 J**	**174 J**	**127 J**	25.5	UPL
Magnesium	**6,500**	**6,160**	**6,950**	**4,260**	**4,330**	**4,830**	**35,100**	**9,550**	**5,580**	12,400	UPL
Manganese	**405 J**	**408 J**	**450 J**	**273 J**	**263 J**	**284 J**	**614 J**	**391 J**	**366 J**	885	UPL
Mercury	**0.190**	**0.290**	**0.0700**	**0.0700**	**0.230**	**0.320**	**0.130**	**0.100**	**0.110**	0.0660	UPL
Nickel	**30.0**	**21.0**	**20.0**	**15.0**	**15.0**	**15.0**	**570**	**72.0**	**21.0**	38.0	Eco
Potassium	**1,280**	**1,220**	**1,360**	**1,480**	**1,570**	**1,400**	**1,060**	**1,210**	**1,870**	2,050	UPL
Selenium	**0.300**	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.300 U	0.300 U	0.300 U	0.520	Eco
Silver	**0.300**	**0.300**	**0.200**	0.200 U	**0.400**	**0.500**	0.300 U	0.300 U	0.300 U	4.20	Eco
Sodium	**530**	**570**	**530**	**460**	**480**	**430**	**420**	**550**	**560**	341	UPL
Thallium	0.300 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.300 U	0.300 U	0.300 U	1.00	Eco
Vanadium	**48.6**	**56.3**	**53.3**	**36.3**	**36.0**	**36.0**	**34.8**	**44.8**	**42.6**	104	UPL
Zinc	**151**	**143**	**157**	**138**	**144**	**221**	**194**	**180**	**189**	71.7	UPL
Pesticides (µg/kg dry)											
4,4'-DDD	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	3.80 U	2.00 U	1.90 U	21.0	Eco
4,4'-DDE	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	3.80 U	2.00 U	1.90 U	21.0	Eco
4,4'-DDT	**13.0**	**14.0**	**14.0**	5.00 U	2.00 U	**23.0**	**28.0**	**17.0**	**6.40**	21.0	Eco
Aldrin	0.990 U	0.980 U	0.980 U	0.980 U	0.990 U	0.980 U	1.90 U	0.990 U	0.970 U	4.90	Eco
BHC (alpha)	0.990 U	0.980 U	0.980 U	0.980 U	0.990 U	0.980 U	1.90 U	0.990 U	0.970 U	340	HH
BHC (beta)	0.990 U	0.980 U	0.980 U	6.80 U	0.990 U	0.980 U	12.0 U	3.50 U	0.970 U	960	HH
BHC (delta)	0.990 U	0.980 U	0.980 U	0.980 U	0.990 U	0.980 U	1.90 U	0.990 U	0.970 U	340	HH
BHC (gamma) Lindane	0.990 U	0.980 U	0.980 U	0.980 U	0.990 U	0.980 U	1.90 U	0.990 U	0.970 U	2,000	HH
Chlordane (alpha)	5.50 U	2.40 U	0.980 U	0.980 U	0.990 U	0.980 U	1.90 U	3.60 U	0.970 U	7,200	HH
Chlordane (gamma)	5.10 U	0.980 U	0.980 U	3.00 U	0.990 U	0.980 U	14.0 U	4.30 U	0.970 U	7,200	HH
Dieldrin	**2.10**	2.00 U	2.00 U	2.00 U	2.00 U	4.00 U	8.00 U	2.00 U	1.90 U	4.90	Eco
Endosulfan I	0.990 U	0.980 U	0.980 U	0.980 U	0.990 U	0.980 U	1.90 U	0.990 U	0.970 U	20,000	Eco
Endosulfan II	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	3.80 U	2.00 U	1.90 U	20,000	Eco
Endosulfan Sulfate	2.00 U	2.00 U	8.00 U	2.00 U	2.00 U	2.00 U	3.80 U	2.00 U	1.90 U	20,000	Eco
Endrin	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	10.0 U	2.00 U	1.90 U	4.90	Eco
Endrin Aldehyde	2.00 U	2.00 U	10.0 U	5.50 U	2.00 U	5.40 U	5.80 U	5.10 U	1.90 U	4.90	Eco
Endrin Ketone	2.00 U	5.30 U	2.00 U	2.00 U	2.00 U	2.00 U	17.0 U	2.00 U	1.90 U	4.90	Eco
Heptachlor	0.990 U	0.980 U	0.980 U	0.980 U	0.990 U	0.980 U	1.90 U	0.990 U	0.970 U	480	HH
Heptachlor Epoxide	0.990 U	0.980 U	0.980 U	0.980 U	0.990 U	0.980 U	1.90 U	0.990 U	0.970 U	240	HH
Methoxychlor	9.90 U	9.80 U	9.80 U	9.80 U	9.90 U	9.80 U	19.0 U	9.90 U	9.70 U	500,000	Eco
Toxaphene	99.0 U	98.0 U	98.0 U	98.0 U	99.0 U	98.0 U	190 U	99.0 U	97.0 U	2,000	HH

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value

[1] Only Aroclors 1248, 1254, and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Landfill AOPC soil samples.
UPL = Reference Area Upper Prediction Limit
- = Not Analyzed
-- = SLV for analyte not available
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV

Table 5-3b
2007 Upland Source Evaluation Soil Analytical Results
Semivolatile Organic Compounds

Site ID	BIL01USE	BIL02USE	BIL03USE	BIL04USE	BIL05USE	BIL06USE	BIL07USE	BIL08USE	BIL09USE	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	070410BIL01SS	070410BIL02SS	070410BIL03SS	070410BIL04SS	070410BIL05SS	070410BIL06SS	070410BIL07SS	070410BIL08SS	070410BIL09SS		
Sample Date	4/10/2007	4/10/2007	4/10/2007	4/10/2007	4/10/2007	4/10/2007	4/10/2007	4/10/2007	4/10/2007		
Sample Depth (Feet bgs)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
Semivolatile Organic Compounds (µg/kg dry)											
1,2,4-Trichlorobenzene	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	20,000	Eco
1,2-Dichlorobenzene	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	2,260	Eco
1,3-Dichlorobenzene	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	2,260	Eco
1,4-Dichlorobenzene	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	17,000	HH
2,4,5-Trichlorophenol	99.0 U	98.0 U	98.0 U	99.0 U	99.0 U	99.0 U	300 U	98.0 U	99.0 U	4,000	Eco
2,4,6-Trichlorophenol	99.0 U	98.0 U	98.0 U	99.0 U	99.0 U	99.0 U	300 U	98.0 U	99.0 U	10,000	Eco
2,4-Dichlorophenol	99.0 U	98.0 U	98.0 U	99.0 U	99.0 U	99.0 U	300 U	98.0 U	99.0 U	20,000	Eco
2,4-Dimethylphenol	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	20,000	Eco
2,4-Dinitrophenol	200 U	200 U	200 U	200 U	200 U	200 U	590 U	200 U	200 U	20,000	Eco
2,4-Dinitrotoluene	99.0 U	98.0 U	98.0 U	99.0 U	99.0 U	99.0 U	300 U	98.0 U	99.0 U	5,500	HH
2,6-Dinitrotoluene	99.0 U	98.0 U	98.0 U	99.0 U	99.0 U	99.0 U	300 U	98.0 U	99.0 U	240,000	HH
2-Chloronaphthalene	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	82,000,000	HH
2-Chlorophenol	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	60,000	Eco
2-Methylphenol	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	50,000	Eco
2-Nitroaniline	99.0 U	98.0 U	98.0 U	99.0 U	99.0 U	99.0 U	300 U	98.0 U	99.0 U	6,000,000	HH
2-Nitrophenol	99.0 U	98.0 U	98.0 U	99.0 U	99.0 U	99.0 U	300 U	98.0 U	99.0 U	180,000,000	HH
3,3'-Dichlorobenzidine	99.0 U	98.0 U	98.0 U	99.0 U	99.0 U	99.0 U	300 U	98.0 U	99.0 U	4,800	HH
3-Nitroaniline	99.0 U	98.0 U	98.0 U	99.0 U	99.0 U	99.0 U	300 U	98.0 U	99.0 U	70,000	Eco
4,6-Dinitro-2-methylphenol	200 U	200 U	200 U	200 U	200 U	200 U	590 U	200 U	200 U	49,000	HH
4-Bromophenyl Phenyl Ether	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	-	-
4-Chloro-3-methylphenol	99.0 U	98.0 U	98.0 U	99.0 U	99.0 U	99.0 U	300 U	98.0 U	99.0 U	62,000,000	HH
4-Chloroaniline	99.0 U	98.0 U	98.0 U	99.0 U	99.0 U	99.0 U	300 U	98.0 U	99.0 U	8,600	HH
4-Chlorophenyl Phenyl Ether	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	-	-
4-Nitroaniline	99.0 U	98.0 U	98.0 U	99.0 U	99.0 U	99.0 U	300 U	98.0 U	99.0 U	40,000	Eco
4-Nitrophenol	99.0 U	98.0 U	98.0 U	99.0 U	99.0 U	99.0 U	300 U	98.0 U	99.0 U	7,000	Eco
Benzoic Acid	200 U	200 U	200 U	200 U	200 U	**130 J**	590 U	200 U	**140 J**	200,000	Eco
Benzyl Alcohol	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	**14.0 J**	2,260	Eco
Bis(2-chloroethoxy)methane	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	730,000	Eco
Bis(2-chloroethyl) Ether	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	1,000	HH
Bis(2-chloroisopropyl) Ether	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	1,000	HH
Bis(2-ethylhexyl) Phthalate	**140**	**140**	**170**	**97.0**	**92.0**	**150**	**420**	**280**	**140**	4,500	Eco
Butyl Benzyl Phthalate	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	450	Eco
Carbazole	**14.0 J**	**21.0**	**18.0 J**	**78.0**	20.0 U	**21.0**	**210**	**35.0**	**16.0 J**	2,260	Eco
Dibenzofuran	20.0 U	20.0 U	20.0 U	**31.0**	20.0 U	20.0 U	**36.0 J**	20.0 U	20.0 U	2.00	Eco
Diethyl Phthalate	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	100,000	Eco
Dimethyl Phthalate	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	150,000	HH
Di-n-butyl Phthalate	20.0 U	20.0 U	20.0 U	**99.0**	**15.0 J**	**1,800**	59.0 U	20.0 U	**70.0**	450	Eco
Di-n-octyl Phthalate	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	450	Eco
Hexachlorobenzene	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	1,800	HH
Hexachlorobutadiene	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	22,000	HH
Hexachlorocyclopentadiene	99.0 U	98.0 U	98.0 U	99.0 U	99.0 U	99.0 U	300 U	98.0 U	99.0 U	10,000	Eco
Hexachloroethane	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	150,000	HH
Isophorone	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	1,800,000	HH
Nitrobenzene	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	8,000	Eco
N-Nitrosodimethylamine	99.0 U	98.0 U	98.0 U	99.0 U	99.0 U	99.0 U	300 U	98.0 U	99.0 U	34.0	HH
N-Nitrosodi-n-propylamine	99.0 U	98.0 U	98.0 U	99.0 U	99.0 U	99.0 U	300 U	98.0 U	99.0 U	250	HH
N-Nitrosodiphenylamine	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	20,000	Eco
p-cresol (4-Methylphenol)	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	50,000	Eco
Pentachlorophenol	99.0 U	98.0 U	98.0 U	99.0 U	99.0 U	99.0 U	300 U	98.0 U	99.0 U	2,100	Eco
Phenol	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	30,000	Eco
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)											
2-Methylnaphthalene	20.0 U	20.0 U	20.0 U	**11.0 J**	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	4,100,000	HH
Acenaphthene	**16.0 J**	**23.0**	**15.0 J**	**170**	20.0 U	**24.0**	**270**	**46.0**	20.0 U	19,000,000	HH
Acenaphthylene	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	23,000	HH
Anthracene	**35.0**	**65.0**	**30.0**	**180**	**15.0 J**	**34.0**	**740**	**110**	**30.0**	93,000,000	HH
Fluorene	20.0 U	**12.0 J**	20.0 U	**73.0**	20.0 U	**13.0 J**	**140**	**24.0**	**10.0 J**	12,000,000	HH
Naphthalene	20.0 U	20.0 U	20.0 U	**20.0**	20.0 U	20.0 U	59.0 U	20.0 U	20.0 U	23,000	HH
Phenanthrene	**180**	**300**	**200**	**1,500**	**66.0**	**180**	**3,000**	**550**	**160**	93,000,000	HH
Total LPAHs (KM, capped; NDs at MDL)	**279 J**	**424 J**	**290 J**	**1,963 J**	**141 J**	**277 J**	**4,268 J**	**770 J**	**230 J**	29,000	Eco
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)											
Benzo(a)anthracene	**530**	**960**	**330**	**1,000**	**78.0**	**250**	**4,500**	**1,000**	**180**	2,700	HH
Benzo(a)pyrene	**600**	**1,200**	**360**	**1,600**	**85.0**	**240**	**6,200**	**1,300**	**140**	270	HH
Benzo(b)fluoranthene	**680**	**1,200**	**420**	**1,600**	**110**	**310**	**8,200**	**1,500**	**170**	2,700	HH
Benzo(g,h,i)perylene	**280**	**530**	**210**	**870**	**67.0**	**160**	**1,800**	**480**	**75.0**	27,000	HH
Benzo(k)fluoranthene	**450**	**1,100**	**310**	**1,200**	**77.0**	**220**	**2,500**	**990**	**130**	27,000	HH
Chrysene	**670**	**1,200**	**450**	**1,300**	**96.0**	**280**	**5,900**	**1,400**	**190**	270,000	HH
Dibenz(a,h)anthracene	**71.0**	**150**	**55.0**	**240**	**29.0**	**76.0**	**730**	**160**	**18.0 J**	270	HH
Fluoranthene	**1,300**	**2,100**	**580**	**2,700**	**150**	**460**	**14,000**	**2,800**	**300**	8,900,000	HH
Indeno(1,2,3-cd)pyrene	**270**	**510**	**200**	**780**	**58.0**	**160**	**2,100**	**530**	**74.0**	2,700	HH
Pyrene	**1,200**	**2,400**	**730**	**3,100**	**130**	**360**	**9,100**	**2,900**	**240 J**	6,700,000	HH
Total HPAHs (KM, capped; NDs at MDL)	**6,051**	**11,350**	**3,645**	**14,390**	**880.0**	**2,516**	**55,030**	**13,060**	**1,517 J**	1,100	Eco

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit
- = Not Analyzed
-- = SLV for analyte not available
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV

Table 5-4a
2002 Sandblast Preliminary Assessment/Site Inspection Soil Analytical Results
Drum Storage Area
PCB Aroclors, Metals, Petroleum Hydrocarbons, Butyltins, Herbicides, and Pesticides
(Page 1 of 2)

Site ID	DSA01	DSA02	DSA03	DSA04	DSA05	DSA06	DSA07	DSA08	DSA09	DSA10	DSA11*	DSA12*	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	011204DSA01SS	011204DSA02SS	011204DSA03SS	011204DSA04SS	011204DSA05SS	011204DSA06SS	011204DSA07SS	011204DSA08SS	011204DSA09SS	011204DSA10SS	011204DSA11SS	011204DSA12SS		
Sample Date	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001		
Sample Depth (Feet bgs)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
PCB Aroclors (µg/kg dry)														
Aroclor 1016	1.20 U	1.09 U	1.22 U	1.24 U	1.08 U	1.22 U	1.14 U	1.09 U	1.22 U	1.19 U	1.21 U	1.25 U	371	Eco
Aroclor 1221	5.13 U	4.66 U	5.23 U	5.29 U	4.63 U	5.22 U	4.87 U	4.68 U	5.21 U	5.10 U	5.19 U	5.51 U	371	Eco
Aroclor 1232	4.09 U	3.72 U	4.18 U	4.22 U	3.69 U	4.17 U	3.89 U	3.73 U	4.16 U	4.07 U	4.15 U	4.28 U	371	Eco
Aroclor 1242	2.19 U	1.99 U	2.23 U	2.26 U	1.97 U	2.23 U	2.08 U	2.00 U	2.22 U	2.17 U	2.22 U	2.29 U	371	Eco
Aroclor 1248	5.44 U	4.94 U	5.55 U	5.62 U	4.91 U	5.54 U	5.17 U	4.96 U	5.53 U	5.41 U	5.51 U	5.70 U	371	Eco
Aroclor 1254	1.70 U	1.54 U	1.73 U	1.75 U	1.53 U	1.73 U	1.61 U	1.55 U	1.73 U	1.69 U	1.72 U	1.78 U	371	Eco
Aroclor 1260	**2.00 J**	1.54 U	**2.23 J**	**2.08 J**	**7.79 J**	**16.8**	1.61 U	1.55 U	**2.12 J**	**2.48 J**	**21.1**	**8.30 J**	371	Eco
Total PCBs as Aroclors (NDs at MDL)[1]	**3.70 J**	3.08 U	**3.96 J**	**3.83 J**	**9.32 J**	**18.5 J**	3.22 U	3.10 U	**3.85 J**	**4.17 J**	**22.7 J**	**10.1 J**	371	Eco
Metals (mg/kg dry)														
Aluminum	**4,160 J**	**5,570 J**	**5,440 J**	**7,310 J**	**5,840 J**	**5,860 J**	**5,180 J**	**6,020 J**	**6,350 J**	**5,550 J**	**4,710 J**	**9,340 J**	31,400	UPL
Antimony	2.99 U	2.83 U	3.38 U	**1.83 J**	**1.65 J**	3.08 U	2.96 U	3.19 U	3.29 U	3.11 U	**5.08**	3.17 U	0.270	Eco
Arsenic	**4.42**	**3.82**	**5.75**	**3.70**	**6.74**	**8.19**	**53.7**	**7.24**	**6.86**	**7.39**	**42.7**	**6.99**	5.40	UPL
Barium	**35.5**	**129**	**89.6**	**67.3**	**27.7**	**63.9**	**73.4**	**49.9**	**49.6**	**65.2**	**61.0**	**82.4**	330	Eco
Beryllium	0.180 U	**0.169 J**	0.182 U	**0.193 J**	0.169 U	**0.179 J**	0.160 U	**0.229 J**	0.177 U	0.168 U	0.169 U	**0.236 J**	21.0	Eco
Cadmium	**0.897**	**0.836**	**1.50**	**0.741**	**0.779**	**1.05**	**0.676**	**0.962**	**0.908**	**0.963**	**1.42**	**1.23**	0.360	Eco
Calcium	**2,980 J**	**4,240 J**	**3,430**	**3,620 J**	**4,180 J**	**4,940 J**	**2,910 J**	**4,550 J**	**4,110 J**	**4,430 J**	**7,315 J**	**4,610 J**	10,400	UPL
Chromium	**8.14**	**5.46**	**10.6 J**	**12.2**	**54.1**	**8.30**	**12.8**	**10.1**	**7.46**	**17.2**	**1,365**	**48.8**	28.1	UPL
Cobalt	**9.99**	**12.1**	**8.75**	**8.45**	**12.7**	**11.1**	**9.09**	**13.5**	**12.1**	**13.6**	**23.7**	**12.6**	19.9	UPL
Copper	**17.0**	**16.1**	**26.8**	**21.9**	**27.4**	**24.9**	**54.9**	**21.6**	**16.0**	**13.2**	**158**	**42.9**	56.7	UPL
Iron	**18,600**	**21,700**	**16,800 J**	**18,100**	**28,600**	**20,600**	**18,500**	**25,300**	**25,200**	**24,100**	**40,450**	**22,150**	36,900	UPL
Lead	**42.7**	**13.8**	**43.8 J**	**14.8**	**29.9**	**37.6**	**8.58**	**114**	**35.8**	**37.8**	**344**	**144**	25.5	UPL
Magnesium	**2,690 J**	**3,510 J**	**4,350 J**	**4,140 J**	**6,150 J**	**2,980 J**	**2,310 J**	**3,790 J**	**4,120 J**	**4,510 J**	**42,250 J**	**5,600 J**	12,400	UPL
Manganese	**270 J**	**385 J**	**234 J**	**235 J**	**289 J**	**367 J**	**259 J**	**484 J**	**313 J**	**324 J**	**711 J**	**464 J**	885	UPL
Mercury	**0.170**	**0.0951**	**0.0325 J**	**0.0313 J**	**0.0525**	0.0306 U	**0.0616**	0.0256 U	**0.294**	**0.393**	**0.0818**	**0.0389 J**	0.0660	UPL
Nickel	**4.79**	**5.73**	**13.6 J**	**12.1**	**23.5**	**6.81**	**6.22**	**7.71**	**5.79**	**10.4**	**477**	**33.3**	38.0	Eco
Potassium	**669**	**716**	**445 J**	**515**	**348 J**	**822**	**751**	**857**	**475**	**722**	**476 J**	**684**	2,050	UPL
Selenium	0.385 U	0.365 U	0.435 U	0.370 U	0.405 U	**0.478 J**	0.381 U	0.411 U	0.423 U	0.401 U	0.403 U	**0.424 J**	0.520	Eco
Silver	**0.149 J**	**0.149 J**	**0.198 J**	**0.162 J**	**0.119 J**	**0.155 J**	**0.103 J**	**0.145 J**	**0.142 J**	**0.165 J**	**0.214 J**	**0.163 J**	4.20	Eco
Sodium	162 U	137 U	163 U	139 U	152 U	149 U	143 U	154 U	159 U	150 U	151 U	153 U	341	UPL
Thallium	**0.239 J**	**0.136 J**	**0.229 J**	**0.105 J**	**0.0691 J**	**0.0913 J**	**0.117 J**	**0.122 J**	**0.102 J**	**0.150 J**	**0.0771 J**	**0.0969 J**	1.00	Eco
Vanadium	**41.6**	**47.9**	**39.4**	**42.9**	**69.0**	**41.6**	**37.9**	**49.4**	**64.2**	**69.7**	**30.5**	**52.6**	104	UPL
Zinc	**30.3 J**	**34.7 J**	**46.1**	**45.9 J**	**85.3 J**	**53.7 J**	**32.6 J**	**39.9 J**	**39.8 J**	**38.6 J**	**552 J**	**96.8 J**	71.7	UPL
Petroleum Hydrocarbons (mg/kg dry)														
Diesel Range Organics	**34.4**	13.4 U	13.6 U	13.1 U	13.5 U	**21.0 J**	**13.5 J**	12.5 U	**16.0 J**	**22.7 J**	**91.0**	**51.3**	23,000	HH
Residual Range Organics	**191**	26.9 U	**55.6**	**34.7 J**	**28.0 J**	**125**	26.9 U	24.9 U	**38.2 J**	**66.9**	**378**	**115**	40,000	HH
Gasoline Range Organics	4.35 U	4.18 U	4.43 U	4.26 U	4.03 U	4.55 U	4.34 U	4.23 U	4.60 U	**3.49 J**	4.41 U	4.46 U	13,000	HH
Butyltins (µg/kg dry)														
Dibutyltin	-	-	-	-	-	-	-	-	-	-	**74.3**	-	28,000	Eco
Monobutyltin	-	-	-	-	-	-	-	-	-	-	**55.6**	-	28,000	Eco
Tetrabutyltin	-	-	-	-	-	-	-	-	-	-	0.471 U	-	28,000	Eco
Tributyltin	-	-	-	-	-	-	-	-	-	-	**409**	-	28,000	Eco

Table 5-4a
2002 Sandblast Preliminary Assessment/Site Inspection Soil Analytical Results
Drum Storage Area
PCB Aroclors, Metals, Petroleum Hydrocarbons, Butyltins, Herbicides, and Pesticides
(Page 2 of 2)

Site ID	DSA01	DSA02	DSA03	DSA04	DSA05	DSA06	DSA07	DSA08	DSA09	DSA10	DSA11*	DSA12*	**Selected SLV (0-3 ft bgs)**	**SLV Source (0-3 ft bgs)**
Sample ID	011204DSA01SS	011204DSA02SS	011204DSA03SS	011204DSA04SS	011204DSA05SS	011204DSA06SS	011204DSA07SS	011204DSA08SS	011204DSA09SS	011204DSA10SS	011204DSA11SS	011204DSA12SS		
Sample Date	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001		
Sample Depth (Feet bgs)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Herbicides (µg/kg dry)														
2,4,5-T	1.36 U	1.37 U	1.54 U	1.50 U	1.26 U	1.52 U	1.34 U	1.53 U	1.32 U	1.47 U	1.58 U	1.56 U	21.0	Eco
2,4,5-TP (Silvex)	1.98 U	2.00 U	2.26 U	2.20 U	1.84 U	2.22 U	1.96 U	2.24 U	1.93 U	2.15 U	2.31 U	2.29 U	21.0	Eco
2,4-D	0.512 U	0.516 U	0.582 U	5.68 U	0.476 U	0.573 U	0.506 U	0.579 U	0.499 U	0.556 U	0.596 U	0.591 U	21.0	Eco
2,4-DB	0.871 U	0.878 U	0.990 U	0.568 U	0.809 U	0.974 U	0.860 U	0.985 U	0.849 U	0.946 U	1.01 U	1.00 U	21.0	Eco
4-Nitrophenol	1.37 U	1.38 U	1.56 U	1.52 U	1.27 U	1.53 U	1.35 U	1.55 U	1.34 U	1.49 U	1.60 U	1.58 U	7,000	Eco
Dalapon	1.89 U	1.91 U	2.15 U	2.10 U	1.76 U	2.12 U	1.87 U	2.14 U	1.85 U	2.06 U	2.20 U	2.18 U	18,000,000	HH
Dicamba	1.51 U	1.52 U	1.71 U	1.67 U	1.40 U	1.69 U	1.49 U	1.71 U	1.47 U	1.64 U	1.76 U	1.74 U	18,000,000	HH
Dichloroprop	0.662 U	0.667 U	0.752 U	0.733 U	0.614 U	0.740 U	0.653 U	0.748 U	0.645 U	0.718 U	0.770 U	0.763 U	21.0	Eco
Dinoseb	0.512 U	0.516 U	0.582 U	0.568 U	0.476 U	0.573 U	0.506 U	0.579 U	0.499 U	0.556 U	0.596 U	0.591 U	620,000	HH
MCPA	0.936 U	0.943 U	1.06 U	1.04 U	0.868 U	1.05 U	0.923 U	1.06 U	0.912 U	1.02 U	1.09 U	1.08 U	21.0	Eco
MCPP	1.70 U	1.71 U	1.93 U	1.88 U	1.58 U	1.90 U	1.68 U	1.92 U	1.66 U	1.85 U	1.98 U	1.96 U	21.0	Eco
Pentachlorophenol	0.725 U	0.730 U	0.824 U	0.803 U	0.673 U	0.810 U	0.715 U	0.819 U	0.706 U	0.787 U	0.843 U	0.836 U	2,100	Eco
Pesticides (µg/kg dry)														
4,4'-DDD	0.192 U	0.207 U	0.217 U	0.201 U	0.185 U	0.219 U	0.201 U	0.209 U	0.203 U	0.206 U	0.386 U	2.25 U	21.0	Eco
4,4'-DDE	0.227 U	0.245 U	0.257 U	**0.604 J**	0.219 U	0.260 U	0.238 U	0.247 U	0.240 U	0.243 U	0.457 U	**2.44 J**	21.0	Eco
4,4'-DDT	**0.436 J**	0.275 U	**3.09**	**4.39**	**0.478 J**	0.292 U	0.268 U	0.278 U	0.270 U	0.274 U	0.514 U	**22.2 J**	21.0	Eco
Aldrin	0.425 U	0.458 U	0.482 U	0.446 U	0.410 U	0.487 U	0.446 U	0.436 U	0.450 U	0.456 U	0.856 U	1.12 U	4.90	Eco
BHC (alpha)	0.306 U	0.330 U	0.347 U	0.321 U	0.295 U	0.350 U	0.321 U	0.333 U	0.324 U	0.329 U	0.617 U	1.12 U	340	HH
BHC (beta)	0.417 U	0.450 U	0.473 U	0.438 U	0.402 U	0.477 U	0.438 U	0.454 U	0.441 U	0.448 U	0.840 U	1.12 U	960	HH
BHC (delta)	0.378 UJ	0.408 UJ	0.429 UJ	0.397 UJ	0.365 UJ	0.433 U	0.397 U	0.412 U	0.400 U	0.406 U	0.762 U	1.12 U	340	HH
BHC (gamma) Lindane	0.377 U	0.406 U	0.427 U	0.395 U	0.363 U	0.431 U	0.395 U	0.410 U	0.398 U	**2.17**	0.759 U	1.12 U	2,000	HH
Chlordane (technical)	1.39 U	1.50 U	1.57 U	1.46 U	1.34 U	1.59 U	1.46 U	1.51 U	1.47 U	1.49 U	2.79 U	11.2 U	7,200	HH
Dieldrin	0.323 U	0.348 U	**0.823 J**	**0.428 J**	0.312 U	0.370 U	0.339 U	0.352 U	0.342 U	0.347 U	0.651 U	2.25 U	4.90	Eco
Endosulfan I	0.420 U	0.452 U	0.476 U	0.441 U	0.405 U	0.480 U	0.440 U	0.457 U	0.444 U	0.450 U	0.845 U	1.12 U	20,000	Eco
Endosulfan II	0.381 U	0.411 U	0.432 U	0.400 U	0.367 U	0.436 U	0.400 U	0.415 U	0.403 U	0.409 U	**0.960 J**	2.25 U	20,000	Eco
Endosulfan Sulfate	**0.577 J**	0.387 U	0.406 U	0.377 U	0.346 U	0.410 U	0.376 U	0.390 U	0.379 U	0.385 U	0.722 U	2.25 U	20,000	Eco
Endrin	0.356 UJ	0.383 UJ	0.403 UJ	0.373 UJ	0.343 UJ	0.407 U	0.373 U	0.387 U	0.376 U	0.382 U	0.716 U	2.25 U	4.90	Eco
Endrin Aldehyde	0.402 U	0.433 U	0.455 U	**2.02 J**	0.387 U	0.460 U	0.422 U	0.437 U	0.425 U	0.431 U	0.809 U	2.25 U	4.90	Eco
Endrin Ketone	0.277 U	0.299 U	0.314 U	0.291 U	0.367 U	0.317 U	0.291 U	0.301 U	0.293 U	**1.87 J**	**2.53 J**	**3.61 J**	4.90	Eco
Heptachlor	0.339 U	0.366 U	0.385 U	0.356 U	0.327 U	0.388 U	0.356 U	0.369 U	0.359 U	0.364 U	0.683 U	1.12 U	480	HH
Heptachlor Epoxide	0.360 U	0.388 U	0.408 U	0.378 U	0.347 U	0.412 U	0.378 U	0.392 U	0.381 U	0.386 U	0.725 U	1.12 U	240	HH
Methoxychlor	1.36 U	1.46 U	1.54 U	1.42 U	1.31 U	1.55 U	1.42 U	1.48 U	1.44 U	1.46 U	2.73 U	11.2 U	500,000	Eco
Toxaphene	6.18 U	6.66 U	7.00 U	6.48 U	5.95 U	7.07 U	6.48 U	6.72 U	6.53 U	6.63 U	12.4 U	112 U	2,000	HH

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit

[1] Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandlbast Area AOPC soil samples.
- = Not Analyzed
-- = SLV for analyte not available
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-4b
2002 Sandblast Preliminary Assessment/Site Inspection Soil Analytical Results
Drum Storage and Sandblast Areas
Volatile Organic Compounds
(Page 1 of 2)

Site ID	DSA01	DSA02	DSA03	DSA04	DSA05	DSA06	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	011204DSA01SS	011204DSA02SS	011204DSA03SS	011204DSA04SS	011204DSA05SS	011204DSA06SS		
Sample Date	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001		
Sample Depth (Feet bgs)	0.0	0.0	0.0	0.0	0.0	0.0		
Volatile Organic Compounds (µg/kg dry)								
1,1,1,2-Tetrachloroethane	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	9,300	HH
1,1,1-Trichloroethane (TCA)	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	38,000,000	HH
1,1,2,2-Tetrachloroethane	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	2,800	HH
1,1,2-Trichloroethane	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	2,700	HH
1,1-Dichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	5,900	HH
1,1-Dichloroethene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	680,000	HH
1,1-Dichloropropene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	8,100	HH
1,2,3-Trichlorobenzene	2.00 U	2.00 U	3.00 U	2.00 U	2.00 U	2.00 U	20,000	Eco
1,2,3-Trichloropropane	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	95.0	HH
1,2,4-Trichlorobenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	20,000	Eco
1,2,4-Trimethylbenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	200,000	Eco
1,2-Dibromo-3-chloropropane	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	69.0	HH
1,2-Dibromoethane (EDB)	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	140	HH
1,2-Dichlorobenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2,260	Eco
1,2-Dichloroethane (EDC)	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	590	HH
1,2-Dichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	4,500	HH
1,3,5-Trimethylbenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	150,000	HH
1,3-Dichlorobenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2,260	Eco
1,3-Dichloropropane	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	20,000,000	HH
1,4-Dichlorobenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	17,000	HH
2,2-Dichloropropane	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	4,500	HH
2-Butanone (MEK)	15.0 U	15.0 U	15.0 U	15.0 U	15.0 U	15.0 U	200,000,000	HH
2-Chlorotoluene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	20,000,000	HH
2-Hexanone	10.0 UJ	10.0 UJ	10.0 UJ	10.0 UJ	10.0 UJ	10.0 UJ	1,250,000	Eco
4-Chlorotoluene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	72,000,000	HH
4-Isopropyltoluene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	200,000	Eco
4-Methyl-2-pentanone (MIBK)	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	1,250,000	Eco
Acetone	15.0 U	15.0 U	15.0 U	15.0 U	15.0 U	15.0 U	1,250,000	Eco
Benzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1,200	HH
Bromobenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1,800,000	HH
Bromochloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1,900	HH
Bromodichloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1,900	HH
Bromoform	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	360,000	HH
Bromomethane	8.00 U	8.00 U	8.00 U	8.00 U	8.00 U	8.00 U	17,000	HH
Carbon Disulfide	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	1,000,000	Eco
Carbon Tetrachloride	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	630	HH
Chlorobenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	40,000	Eco
Chloroethane	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	61,000,000	HH
Chloroform	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	410	HH
Chloromethane	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	300,000	HH
cis-1,2-Dichloroethene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2,500,000	Eco
cis-1,3-Dichloropropene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	8,100	HH
Dibromochloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	34,000	HH
Dibromomethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	110,000	HH
Dichlorodifluoromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	730,000	Eco
Dichloromethane (Methylene Chloride)	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	20,000	HH
Ethylbenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2,260	Eco
Hexachlorobutadiene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	22,000	HH
Isopropylbenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2,260	Eco
m,p-Xylenes	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	120,000	Eco
Naphthalene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	23,000	HH
n-Butylbenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	-
n-Propylbenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2,260	Eco
o-Xylene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1,000	Eco
sec-Butylbenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2,260	Eco
Styrene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	300,000	Eco
tert-Butylbenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2,260	Eco
Tetrachloroethene (PCE)	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1,600	HH
Toluene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	200,000	Eco
trans-1,2-Dichloroethene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	200,000	HH
trans-1,3-Dichloropropene	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	8,100	HH
Trichloroethene (TCE)	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	130	HH
Trichlorofluoromethane	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	730,000	Eco
Vinyl Acetate	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	4,100,000	HH
Vinyl Chloride	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2,200	HH

Notes:

µg/kg = microgram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit
- = Not Analyzed
-- = SLV for analyte not available
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-4b
2002 Sandblast Preliminary Assessment/Site Inspection Soil Analytical Results
Drum Storage and Sandblast Areas
Volatile Organic Compounds
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Site ID	DSA07	DSA08	DSA09	DSA10	DSA11*	DSA12*	SBB18	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	011204DSA07SS	011204DSA08SS	011204DSA09SS	011204DSA10SS	011204DSA11SS	011204DSA12SS	011205SBB20SS		
Sample Date	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/5/2001		
Sample Depth (Feet bgs)	0.0	0.0	0.0	0.0	0.0	0.0	2.5		
Volatile Organic Compounds (µg/kg dry)									
1,1,1,2-Tetrachloroethane	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	1,200 U	9,300	HH
1,1,1-Trichloroethane (TCA)	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1,800 U	38,000,000	HH
1,1,2,2-Tetrachloroethane	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	2,500 U	2,800	HH
1,1,2-Trichloroethane	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	2,500 U	2,700	HH
1,1-Dichloroethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	2,500 U	5,900	HH
1,1-Dichloroethene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	3,000 U	680,000	HH
1,1-Dichloropropene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	2,500 U	8,100	HH
1,2,3-Trichlorobenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2,800 U	20,000	Eco
1,2,3-Trichloropropane	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	2,800 U	95.0	HH
1,2,4-Trichlorobenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1,800 U	20,000	Eco
1,2,4-Trimethylbenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	**12,000**	200,000	Eco
1,2-Dibromo-3-chloropropane	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3,800 U	69.0	HH
1,2-Dibromoethane (EDB)	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	1,800 U	140	HH
1,2-Dichlorobenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2,500 U	2,260	Eco
1,2-Dichloroethane (EDC)	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1,800 U	590	HH
1,2-Dichloropropane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	2,500 U	4,500	HH
1,3,5-Trimethylbenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	**6,500**	150,000	HH
1,3-Dichlorobenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1,800 U	2,260	Eco
1,3-Dichloropropane	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	2,500 U	20,000,000	HH
1,4-Dichlorobenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2,500 U	17,000	HH
2,2-Dichloropropane	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1,500 U	4,500	HH
2-Butanone (MEK)	15.0 U	15.0 U	15.0 U	15.0 U	15.0 U	15.0 U	12,000 U	200,000,000	HH
2-Chlorotoluene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1,800 U	20,000,000	HH
2-Hexanone	10.0 UJ	10.0 UJ	10.0 UJ	10.0 UJ	10.0 UJ	10.0 UJ	7,500 U	1,250,000	Eco
4-Chlorotoluene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1,800 U	72,000,000	HH
4-Isopropyltoluene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1,800 U	200,000	Eco
4-Methyl-2-pentanone (MIBK)	10.0 U	10.0 U	10.0 U	10.0 U	2.00 U	10.0 U	10,000 U	1,250,000	Eco
Acetone	15.0 U	15.0 U	15.0 U	15.0 U	15.0 U	15.0 U	10,000 U	1,250,000	Eco
Benzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2,500 U	1,200	HH
Bromobenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1,800 U	1,800,000	HH
Bromochloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1,900 U	1,900	HH
Bromodichloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	2,500 U	1,900	HH
Bromoform	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	2,500 U	360,000	HH
Bromomethane	8.00 U	8.00 U	8.00 U	8.00 U	8.00 U	8.00 U	6,200 UJ	17,000	HH
Carbon Disulfide	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	2,500 UJ	1,000,000	Eco
Carbon Tetrachloride	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1,500 U	630	HH
Chlorobenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2,500 U	40,000	Eco
Chloroethane	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	6,200 UJ	61,000,000	HH
Chloroform	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1,800 U	410	HH
Chloromethane	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	5,000 UJ	300,000	HH
cis-1,2-Dichloroethene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2,500 U	2,500,000	Eco
cis-1,3-Dichloropropene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	2,500 U	8,100	HH
Dibromochloromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	2,500 U	34,000	HH
Dibromomethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	2,800 U	110,000	HH
Dichlorodifluoromethane	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	4,200 U	730,000	Eco
Dichloromethane (Methylene Chloride)	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	2.00 U	1,200 U	20,000	HH
Ethylbenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1,800 U	2,260	Eco
Hexachlorobutadiene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1,800 U	22,000	HH
Isopropylbenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	3,000 U	2,260	Eco
m,p-Xylenes	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	**7,400**	120,000	Eco
Naphthalene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2,500 U	23,000	HH
n-Butylbenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1,800 U	-	-
n-Propylbenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2,800 U	2,260	Eco
o-Xylene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	**3,200 J**	1,000	Eco
sec-Butylbenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1,800 U	2,260	Eco
Styrene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2,500 U	300,000	Eco
tert-Butylbenzene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1,800 U	2,260	Eco
Tetrachloroethene (PCE)	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	**3.10 J**	**420,000**	1,600	HH
Toluene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	**39,000**	200,000	Eco
trans-1,2-Dichloroethene	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	3,000 U	200,000	HH
trans-1,3-Dichloropropene	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	1,800 U	8,100	HH
Trichloroethene (TCE)	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	**3,200 J**	130	HH
Trichlorofluoromethane	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1,800 UJ	730,000	Eco
Vinyl Acetate	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	6,200 U	4,100,000	HH
Vinyl Chloride	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	3,800 U	2,200	HH

Notes:

µg/kg = microgram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit
- = Not Analyzed

-- = SLV for analyte not available
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-4c
2002 Sandblast Preliminary Assessment/Site Inspection Soil Analytical Results
Drum Storage Area
Semivolatile Organic Compounds
(Page 1 of 2)

Site ID	DSA01	DSA02	DSA03	DSA04	DSA05	DSA06	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	011204DSA01SS	011204DSA02SS	011204DSA03SS	011204DSA04SS	011204DSA05SS	011204DSA06SS		
Sample Date	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001		
Sample Depth (Feet bgs)	0.0	0.0	0.0	0.0	0.0	0.0		
Semivolatile Organic Compounds (µg/kg dry)								
1,2,4-Trichlorobenzene	1.02 U	0.972 U	1.09 U	1.17 U	1.16 U	1.24 U	20,000	Eco
1,2-Dichlorobenzene	1.26 U	1.21 U	1.35 U	1.46 U	1.43 U	1.54 U	2,260	Eco
1,3-Dichlorobenzene	1.72 U	1.64 U	1.84 U	1.98 U	1.95 U	2.09 U	2,260	Eco
1,4-Dichlorobenzene	1.96 U	1.87 U	2.10 U	2.26 U	2.23 U	2.39 U	17,000	HH
2,4,5-Trichlorophenol	2.21 U	2.11 U	2.36 U	2.54 U	2.51 U	2.68 U	4,000	Eco
2,4,6-Trichlorophenol	1.63 UJ	1.56 UJ	1.74 UJ	1.88 UJ	1.85 UJ	1.98 UJ	10,000	Eco
2,4-Dichlorophenol	1.35 U	1.29 U	1.44 U	1.56 U	1.53 U	1.64 U	20,000	Eco
2,4-Dimethylphenol	1.35 U	1.29 U	1.44 U	1.56 U	1.53 U	1.64 U	20,000	Eco
2,4-Dinitrophenol	2.95 U	2.81 U	3.15 U	3.39 U	3.34 U	3.58 U	20,000	Eco
2,4-Dinitrotoluene	1.60 U	1.52 U	1.70 U	1.84 U	1.81 U	1.94 U	5,500	HH
2,6-Dinitrotoluene	2.21 UJ	2.11 UJ	2.36 UJ	2.54 UJ	2.51 UJ	2.68 UJ	240,000	HH
2-Chloronaphthalene	0.368 U	0.351 U	0.393 U	0.424 U	0.418 U	0.447 U	82,000,000	HH
2-Chlorophenol	1.84 U	1.76 U	1.97 U	2.12 U	2.09 U	2.24 U	60,000	Eco
2-Methylphenol	1.47 U	1.40 U	1.57 U	1.70 U	1.67 U	1.79 U	50,000	Eco
2-Nitroaniline	1.60 U	1.52 U	1.70 U	1.84 U	1.81 U	1.94 U	6,000,000	HH
2-Nitrophenol	1.72 U	1.64 U	1.84 U	1.98 U	1.95 U	2.09 U	180,000,000	HH
3,3'-Dichlorobenzidine	1.35 U	1.29 U	1.44 U	1.56 U	1.53 U	1.64 U	4,800	HH
3-Nitroaniline	2.09 U	1.99 U	2.23 U	2.40 U	2.37 U	2.53 U	70,000	Eco
4,6-Dinitro-2-methylphenol	1.51 U	4.33 U	4.85 U	5.23 U	5.15 U	5.52 U	49,000	HH
4-Bromophenyl Phenyl Ether	1.63 U	1.56 U	1.74 U	1.88 U	1.85 U	1.98 U	-	-
4-Chloro-3-methylphenol	1.35 U	1.29 U	1.44 U	1.56 U	1.53 U	1.64 U	62,000,000	HH
4-Chloroaniline	1.14 U	1.09 U	1.22 U	1.31 U	1.30 U	1.39 U	8,600	HH
4-Chlorophenyl Phenyl Ether	2.06 U	1.97 U	2.20 U	2.37 U	2.34 U	2.50 U	-	-
4-Nitroaniline	2.09 U	1.99 U	2.23 U	2.40 U	2.37 U	2.53 U	40,000	Eco
4-Nitrophenol	2.33 U	2.22 U	2.49 U	2.69 U	2.65 U	2.83 U	7,000	Eco
Aniline	6.14 U	5.85 U	6.56 U	7.07 U	6.96 U	7.45 U	200,000	Eco
Benzidine	2.32 UJ	2.21 UJ	2.48 UJ	2.67 UJ	2.63 UJ	2.82 UJ	55,000	HH
Benzoic Acid	**88.5 J**	**38.5 J**	4.46 U	**50.6 J**	**40.8 J**	**26.7 J**	200,000	Eco
Benzyl Alcohol	2.58 U	2.46 U	2.75 U	2.97 U	2.92 U	3.13 U	2,260	Eco
Bis(2-chloroethoxy)methane	1.47 U	1.40 U	1.57 U	1.70 U	1.67 U	1.79 U	730,000	Eco
Bis(2-chloroethyl) Ether	2.34 UJ	2.24 UJ	2.50 UJ	2.70 UJ	2.66 UJ	2.85 UJ	1,000	HH
Bis(2-chloroisopropyl) Ether	3.19 UJ	3.04 UJ	3.41 UJ	3.68 UJ	3.62 UJ	3.88 UJ	1,000	HH
Bis(2-ethylhexyl) Phthalate	61.7 UJ	29.3 U	48.1 UJ	35.3 U	**1,040**	160 UJ	4,500	Eco
Butyl Benzyl Phthalate	2.33 U	2.22 U	2.49 U	2.69 U	**9.05 J**	2.83 U	450	Eco
Carbazole	4.79 U	4.57 U	5.11 U	5.51 U	5.43 U	5.81 U	2,260	Eco
Dibenzofuran	1.42 U	**1.40 J**	1.52 U	1.64 U	**1.67 J**	**2.24 J**	2.00	Eco
Diethyl Phthalate	2.09 U	1.99 U	2.23 U	2.40 U	2.37 U	2.53 U	100,000	Eco
Dimethyl Phthalate	1.35 U	1.29 U	1.44 U	1.56 U	1.53 U	1.64 U	150,000	HH
Di-n-butyl Phthalate	61.4 UJ	58.5 UJ	65.6 UJ	70.7 UJ	141 UJ	130 UJ	450	Eco
Di-n-octyl Phthalate	3.19 U	3.04 U	3.41 U	3.68 U	3.62 U	3.88 U	450	Eco
Hexachlorobenzene	1.35 U	1.29 U	1.44 U	1.56 U	1.53 U	1.64 U	1,800	HH
Hexachlorobutadiene	1.10 U	1.05 U	1.18 U	1.27 U	1.25 U	1.34 U	22,000	HH
Hexachlorocyclopentadiene	1.73 UJ	1.65 UJ	1.85 UJ	1.99 UJ	1.96 UJ	2.10 UJ	10,000	Eco
Hexachloroethane	2.33 U	2.22 U	2.49 U	2.69 U	2.65 U	2.83 U	150,000	HH
Isophorone	1.72 U	1.64 U	1.84 U	1.98 U	1.95 U	2.09 U	1,800,000	HH
Nitrobenzene	1.68 U	1.60 U	1.80 U	1.94 U	1.91 U	2.04 U	8,000	Eco
N-Nitrosodimethylamine	1.35 U	1.29 U	1.05 U	1.56 U	1.53 U	1.64 U	34.0	HH
N-Nitrosodi-n-propylamine	1.35 U	1.29 U	1.44 U	1.56 U	1.53 U	1.64 U	250	HH
N-Nitrosodiphenylamine	0.982 U	0.937 U	1.44 U	1.13 U	1.11 U	1.19 U	20,000	Eco
p-cresol (4-Methylphenol)	1.82 U	1.73 U	1.94 U	2.09 U	2.06 U	2.21 U	-	-
Pentachlorophenol	2.58 UJ	2.46 UJ	2.75 UJ	2.97 UJ	2.92 UJ	3.13 UJ	2,100	Eco
Phenol	2.45 U	2.34 U	2.62 U	2.83 U	2.79 U	2.98 U	30,000	Eco
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)								
2-Methylnaphthalene	0.191 U	0.183 U	0.205 U	0.221 U	0.217 U	**2.98**	4,100,000	HH
Acenaphthene	0.607 U	**6.44**	0.649 U	0.700 U	**4.46**	0.738 U	19,000,000	HH
Acenaphthylene	0.535 U	0.510 U	**3.67**	0.616 U	0.607 U	0.650 U	23,000	HH
Anthracene	**1.72**	**4.21**	**5.25**	0.356 U	**9.19**	**11.3**	93,000,000	HH
Fluorene	0.573 U	**2.46**	**3.02**	0.660 U	**3.06**	**7.01**	12,000,000	HH
Naphthalene	0.574 U	0.548 U	**1.70**	0.662 U	**1.95**	**4.17**	23,000	HH
Phenanthrene	**5.64**	**19.4**	**21.8**	**5.80**	**31.3**	**49.8**	93,000,000	HH
Total LPAHs (KM, capped; NDs at MDL)	**9.50 J**	**33.5 J**	**36.1 J**	**8.79 J**	**50.6 J**	**73.6 J**	29,000	Eco
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)								
Benzo(a)anthracene	0.749 U	**15.0**	**15.6**	**3.96**	**66.6**	**29.5**	2,700	HH
Benzo(a)pyrene	**10.2**	**20.4**	**20.3**	**7.49**	**151**	**43.5**	270	HH
Benzo(g,h,i)perylene	0.202 U	**9.72**	0.216 U	0.233 U	**107**	0.246 U	27,000	HH
Benzofluoranthenes, Total	**13.5**	**26.3**	**35.8**	**10.2**	**175**	**74.2**	2,700	HH
Chrysene	**6.50**	**16.3**	**22.8**	**6.36**	**68.4**	**45.9**	270,000	HH
Dibenz(a,h)anthracene	0.286 U	0.273 U	0.306 U	0.329 U	**25.8**	0.347 U	270	HH
Fluoranthene	**8.47**	**31.6**	**35.4**	**10.0**	**75.9**	**62.9**	8,900,000	HH
Indeno(1,2,3-cd)pyrene	0.286 U	**11.1**	**14.3**	**3.68**	**97.8**	0.347 U	2,700	HH
Pyrene	**11.0**	**31.0**	**32.3**	**10.0**	**83.8**	**68.6**	6,700,000	HH
Total HPAHs (KM, capped; NDs at MDL)	**37.0 J**	**135 J**	**141 J**	**42.0 J**	**676**	**251 J**	1,100	Eco

Notes:
µg/kg = microgram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit
- = Not Analyzed

-- = SLV for analyte not available
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-4c
2002 Sandblast Preliminary Assessment/Site Inspection Soil Analytical Results
Drum Storage Area
Semivolatile Organic Compounds
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Site ID	DSA07	DSA08	DSA09	DSA10	DSA11*	DSA12*	SBB18	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	011204DSA07SS	011204DSA08SS	011204DSA09SS	011204DSA10SS	011204DSA11SS	011204DSA12SS	011205SBB20SS		
Sample Date	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/5/2001		
Sample Depth (Feet bgs)	0.0	0.0	0.0	0.0	0.0	0.0	2.5		
Semivolatile Organic Compounds (µg/kg dry)									
1,2,4-Trichlorobenzene	1.08 U	1.01 U	1.20 U	12.1 U	10.6 U	1.32 U	-	20,000	Eco
1,2-Dichlorobenzene	1.34 U	1.26 U	1.49 U	15.1 U	13.1 U	1.64 U	-	2,260	Eco
1,3-Dichlorobenzene	1.82 U	1.71 U	2.02 U	20.5 U	17.8 U	2.22 U	-	2,260	Eco
1,4-Dichlorobenzene	2.08 U	1.95 U	2.31 U	23.4 U	20.4 U	2.54 U	-	17,000	HH
2,4,5-Trichlorophenol	2.34 U	2.20 U	2.60 U	26.3 UJ	25.9 U	2.86 U	-	4,000	Eco
2,4,6-Trichlorophenol	1.73 UJ	1.63 UJ	1.92 UJ	19.5 UJ	19.1 UJ	2.11 UJ	-	10,000	Eco
2,4-Dichlorophenol	1.43 U	1.34 U	1.59 U	16.1 UJ	15.8 U	1.75 U	-	20,000	Eco
2,4-Dimethylphenol	1.43 U	1.34 U	1.59 U	16.1 UJ	15.8 U	1.75 U	-	20,000	Eco
2,4-Dinitrophenol	3.12 U	2.93 U	3.46 U	35.1 UJ	34.5 U	3.81 U	-	20,000	Eco
2,4-Dinitrotoluene	1.69 U	1.59 U	1.88 U	19.0 U	16.5 U	2.07 U	-	5,500	HH
2,6-Dinitrotoluene	2.34 UJ	2.20 UJ	2.60 UJ	26.3 UJ	22.9 UJ	2.86 UJ	-	240,000	HH
2-Chloronaphthalene	0.390 U	0.367 U	0.433 U	4.39 U	3.82 U	0.477 U	-	82,000,000	HH
2-Chlorophenol	1.95 U	1.83 U	2.17 U	21.9 UJ	21.5 U	2.38 U	-	60,000	Eco
2-Methylphenol	1.56 U	1.47 U	1.73 U	17.6 UJ	17.2 U	1.91 U	-	50,000	Eco
2-Nitroaniline	1.69 U	1.59 U	1.88 U	19.0 U	16.5 U	2.07 U	-	6,000,000	HH
2-Nitrophenol	1.82 U	1.71 U	2.02 U	20.5 UJ	20.1 U	2.22 U	-	180,000,000	HH
3,3'-Dichlorobenzidine	1.43 U	1.34 U	1.59 U	16.1 U	14.0 U	1.75 U	-	4,800	HH
3-Nitroaniline	2.21 U	2.08 U	2.45 U	24.9 U	21.6 U	2.70 U	-	70,000	Eco
4,6-Dinitro-2-methylphenol	4.81 U	4.52 U	5.34 U	54.1 UJ	53.2 U	5.88 U	-	49,000	HH
4-Bromophenyl Phenyl Ether	1.73 U	1.63 U	1.92 U	19.5 U	16.9 U	2.11 U	-	-	-
4-Chloro-3-methylphenol	1.43 U	1.34 U	1.59 U	16.1 UJ	15.8 U	1.75 U	-	62,000,000	HH
4-Chloroaniline	1.21 U	1.14 U	1.34 U	13.6 U	11.8 U	1.48 U	-	8,600	HH
4-Chlorophenyl Phenyl Ether	2.19 U	2.05 U	2.43 U	24.6 U	21.4 U	2.67 U	-	-	-
4-Nitroaniline	2.21 U	2.08 U	2.45 U	24.9 U	21.6 U	2.70 U	-	40,000	Eco
4-Nitrophenol	2.47 U	2.32 U	2.74 U	27.8 UJ	27.3 U	3.02 U	-	7,000	Eco
Aniline	6.50 U	6.11 U	7.22 U	73.2 U	63.7 U	7.95 U	-	200,000	Eco
Benzidine	2.46 UJ	2.31 UJ	2.73 UJ	27.7 UJ	24.1 UJ	3.00 UJ	-	55,000	HH
Benzoic Acid	4.42 U	4.15 U	**15.3 J**	49.7 U	43.3 U	5.40 U	-	200,000	Eco
Benzyl Alcohol	2.73 U	2.57 U	3.03 U	30.7 U	26.7 U	3.34 U	-	2,260	Eco
Bis(2-chloroethoxy)methane	1.56 U	1.47 U	1.73 U	17.6 U	15.3 U	1.91 U	-	730,000	Eco
Bis(2-chloroethyl) Ether	2.48 UJ	2.33 UJ	2.76 UJ	27.9 UJ	24.3 UJ	3.04 UJ	-	1,000	HH
Bis(2-chloroisopropyl) Ether	3.38 UJ	3.18 UJ	3.75 UJ	38.0 UJ	33.1 UJ	4.13 UJ	-	1,000	HH
Bis(2-ethylhexyl) Phthalate	32.5 U	88.6 UJ	151 UJ	366 U	**20,100**	**1,500**	**21,600 J**	4,500	Eco
Butyl Benzyl Phthalate	2.47 U	**3.67 J**	2.74 U	27.8 U	**125 J**	**15.7 J**	-	450	Eco
Carbazole	5.07 U	4.77 U	5.63 UJ	57.1 U	**157 J**	**240 J**	-	2,260	Eco
Dibenzofuran	1.51 U	1.42 U	**3.03 J**	17.0 U	**35.4 J**	**141 J**	**485 J**	2.00	Eco
Diethyl Phthalate	2.21 U	2.08 U	2.45 U	24.9 U	21.6 U	2.70 U	-	100,000	Eco
Dimethyl Phthalate	1.43 U	1.34 U	1.59 U	16.1 U	14.0 U	1.75 U	-	150,000	HH
Di-n-butyl Phthalate	65.0 UJ	61.1 UJ	72.2 UJ	127 UJ	637 UJ	131 UJ	-	450	Eco
Di-n-octyl Phthalate	3.38 U	3.18 U	**11.3 J**	38.0 U	33.1 U	**31.0**	-	450	Eco
Hexachlorobenzene	1.43 U	1.34 U	1.59 U	16.1 U	14.0 U	1.75 U	-	1,800	HH
Hexachlorobutadiene	1.17 U	1.10 U	1.30 U	13.2 U	11.5 U	1.43 U	-	22,000	HH
Hexachlorocyclopentadiene	1.83 UJ	1.72 UJ	2.04 UJ	20.6 UJ	17.9 UJ	2.24 UJ	-	10,000	Eco
Hexachloroethane	2.47 U	2.32 U	2.74 U	27.8 U	24.2 U	3.02 U	-	150,000	HH
Isophorone	1.82 U	1.71 U	2.02 U	20.5 U	17.8 U	2.22 U	-	1,800,000	HH
Nitrobenzene	1.78 U	1.67 U	1.98 U	20.0 U	17.4 U	2.18 U	-	8,000	Eco
N-Nitrosodimethylamine	1.43 U	1.34 U	1.59 U	16.1 U	14.0 U	1.75 U	-	34.0	HH
N-Nitrosodi-n-propylamine	1.43 U	1.34 U	1.59 U	16.1 U	14.0 U	1.75 U	-	250	HH
N-Nitrosodiphenylamine	1.04 U	0.977 U	1.15 U	11.7 U	10.2 U	1.27 U	-	20,000	Eco
p-cresol (4-Methylphenol)	1.93 U	1.81 U	2.14 U	21.7 UJ	21.3 U	2.35 U	-	-	-
Pentachlorophenol	2.73 UJ	2.57 UJ	3.03 UJ	30.7 UJ	30.2 UJ	3.34 UJ	-	2,100	Eco
Phenol	2.60 U	2.44 U	2.89 U	29.3 UJ	28.7 U	3.18 U	-	30,000	Eco
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)									
2-Methylnaphthalene	0.203 U	0.191 U	0.225 U	2.28 U	**22.9**	**150**	**124 J**	4,100,000	HH
Acenaphthene	**2.60**	**2.81**	**15.4**	**29.3**	**132**	**470**	**3,200 J**	19,000,000	HH
Acenaphthylene	0.567 U	0.533 U	0.629 U	6.38 U	**27.6**	**87.7**	**295 J**	23,000	HH
Anthracene	**2.08**	**2.20**	**18.0**	**80.5**	**304**	**822**	**2,040 J**	93,000,000	HH
Fluorene	**1.69**	**1.83**	**7.65**	**24.9**	**94.6**	**463**	**779 J**	12,000,000	HH
Naphthalene	0.609 U	0.572 U	0.676 U	6.85 U	**26.9**	**227**	**256 J**	23,000	HH
Phenanthrene	**11.3**	**13.6**	**59.0**	**345**	**1,054**	**3,020**	**6,550 J**	93,000,000	HH
Total LPAHs (KM, capped; NDs at MDL)	**18.8 J**	**21.5 J**	**101 J**	**492 J**	**1,639**	**5,089**	**13,120 J**	29,000	Eco
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)									
Benzo(a)anthracene	**7.28**	**16.5**	**46.3**	**398**	**1,640**	**1,325**	**12,300 J**	2,700	HH
Benzo(a)pyrene	**14.0**	**25.4**	**52.0**	**435**	**2,045**	**1,580**	**11,700 J**	270	HH
Benzo(g,h,i)perylene	**6.89**	**13.7**	**21.2**	**195**	**1,015**	**559**	**3,350 J**	27,000	HH
Benzofluoranthenes, Total	**17.8**	**36.3**	**72.2**	**682**	**2,835**	**1,850**	**16,300 J**	2,700	HH
Chrysene	**9.89**	**20.3**	**56.6**	**465**	**1,640**	**1,620**	**12,000 J**	270,000	HH
Dibenz(a,h)anthracene	0.303 U	0.285 U	0.336 U	3.41 U	**418**	**216**	**1,080 J**	270	HH
Fluoranthene	**19.0**	**27.2**	**98.2**	**806**	**2,290**	**2,610**	**28,600 J**	8,900,000	HH
Indeno(1,2,3-cd)pyrene	**7.02**	**14.3**	**21.1**	**202**	**998**	**547**	**4,170 J**	2,700	HH
Pyrene	**21.2**	**35.1**	**106**	**844**	**2,480**	**3,485**	**32,000 J**	6,700,000	HH
Total HPAHs (KM, capped; NDs at MDL)	**85.6 J**	**153 J**	**402 J**	**3,348 J**	**12,525**	**11,941**	**105,200 J**	1,100	Eco

Notes:

µg/kg = microgram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit
- = Not Analyzed
-- = SLV for analyte not available
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-4d
2002 Sandblast Preliminary Assessment/Site Inspection Soil and Sandblast Grit Analytical Results
Sandblast Area
PCB Aroclors, Metals, Petroleum Hydrocarbons, and Butyltins
(Page 1 of 2)

Site ID	SBB01*	SBB03	SBB04	SBB05	SBB06	SBB07*	SBB09	SBB10	SBB11	SBB12	SBB13	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	011205SBB01SBG	011205SBB03SBG	011205SBB04SBG	011205SBB05SBG	011205SBB06SBG	011205SBB07SBG	011205SBB09SBG	011205SBB10SBG	011205SBB11SBG	011205SBB12SBG	011205SBB13SBG		
Sample Date	12/5/2001	12/5/2001	12/5/2001	12/5/2001	12/5/2001	12/5/2001	12/5/2001	12/5/2001	12/5/2001	12/5/2001	12/5/2001		
Sample Depth (Feet bgs)	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	2.0		
Medium	Sandblast Grit	Sandblast Grit	Sandblast Grit	Sandblast Grit	Sandblast Grit	Sandblast Grit	Sandblast Grit	Sandblast Grit	Sandblast Grit	Sandblast Grit	Soil		
PCB Aroclors (µg/kg dry)													
Aroclor 1016	1.28 U	1.23 U	1.19 U	1.29 U	1.25 U	1.43 U	1.22 U	1.18 U	1.17 U	1.24 U	1.41 U	371	Eco
Aroclor 1221	5.50 U	5.26 U	5.08 U	5.53 U	5.37 U	6.14 U	5.23 U	5.04 U	5.02 U	5.32 U	6.04 U	371	Eco
Aroclor 1232	4.39 U	4.20 U	4.06 U	4.42 U	4.29 U	4.90 U	4.17 U	4.02 U	4.00 U	4.24 U	4.82 U	371	Eco
Aroclor 1242	2.35 U	2.25 U	2.17 U	2.36 U	2.29 U	2.62 U	2.23 U	2.15 U	2.14 U	2.27 U	2.58 U	371	Eco
Aroclor 1248	5.84 U	5.59 U	5.40 U	5.87 U	5.70 U	6.52 U	5.55 U	5.35 U	5.32 U	5.64 U	6.41 U	371	Eco
Aroclor 1254	1.82 U	1.74 U	1.68 U	1.83 U	1.78 U	2.03 U	1.73 U	1.67 U	1.66 U	1.76 U	2.00 U	371	Eco
Aroclor 1260	**6.44 J**	**30.6**	**17.7**	**23.7**	**15.5**	**5.79 J**	**81.8**	**26.0**	**52.1**	**202**	2.00 U	371	Eco
Total PCBs as Aroclors (NDs at MDL) [1]	**8.26 J**	**32.3 J**	**19.4 J**	**25.5 J**	**17.3 J**	**7.81 J**	**83.5 J**	**27.7 J**	**53.8 J**	**204 J**	4.00 U	371	Eco
Metals (mg/kg dry)													
Aluminum	**2,465 J**	**5,190**	**4,640 J**	**5,690 J**	**2,350**	**7,620**	**1,660**	**1,530**	**2,440**	**4,020**	**14,100**	31,400	UPL
Antimony	3.16 U	**2.71 J**	3.29 U	3.54 U	**1.92 J**	**2.60 J**	**1.28 J**	**1.81 J**	**2.74 J**	**13.7**	**1.20 J**	0.270	Eco
Arsenic	**2.37**	**4.70**	**5.93**	**3.04**	**0.866 J**	**5.12**	**2.12**	**6.02**	**4.64**	**6.24**	**6.24**	5.40	UPL
Barium	**22.4**	**119**	**58.2**	**97.0**	**27.7**	**70.9**	**16.2**	**27.2**	**44.4**	**78.2**	**59.6**	330	Eco
Beryllium	0.170 U	0.176 U	0.177 U	0.191 U	0.159 U	**0.218 J**	0.166 U	0.173 U	0.179 U	0.177 U	**0.525**	21.0	Eco
Cadmium	**0.717**	**1.04**	**0.663**	**0.649**	**0.470 J**	**1.04**	**0.895**	**2.14**	**1.45**	**2.19**	**1.02**	0.360	Eco
Calcium	**1,840 J**	**2,720**	**2,590 J**	**2,700 J**	**1,310**	**5,055**	**863**	**1,700**	**2,500**	**2,750**	**7,470**	10,400	UPL
Chromium	**1,215**	**536**	**358**	**69.7**	**880**	**127**	**67.4**	**637**	**648**	**705**	**21.7**	28.1	UPL
Cobalt	**25.0**	**14.9**	**9.44**	**7.97**	**16.3**	**11.9**	**2.52**	**17.4**	**14.3**	**15.1**	**19.7**	19.9	UPL
Copper	**32.2**	**58.1**	**28.6**	**25.0**	**25.0**	**56.2**	**23.1**	**82.8**	**73.7**	**183**	**73.7**	56.7	UPL
Iron	**32,300**	**25,200**	**19,700**	**17,300**	**22,100**	**21,800**	**10,100**	**44,500**	**39,500**	**39,400**	**41,500**	36,900	UPL
Lead	**124**	**1,200 J**	**262**	**300**	**501 J**	**119 J**	**502 J**	**272 J**	**415 J**	**863 J**	**19.3 J**	25.5	UPL
Magnesium	**43,500 J**	**19,800**	**14,000 J**	**4,000 J**	**31,400**	**6,175**	**1,370**	**19,500**	**18,600**	**13,900**	**9.75 J**	12,400	UPL
Manganese	**509 J**	**448**	**285 J**	**290 J**	**392**	**392**	**171**	**536**	**518**	**464**	**631**	885	UPL
Mercury	0.0301 U	**0.0404 J**	**0.0423 J**	0.0300 U	**0.0425**	**0.0461 J**	0.0269 U	0.0285 U	**0.0380 J**	**0.0425**	0.0338 U	0.0660	UPL
Nickel	**1,015**	**382**	**130**	**55.3**	**597**	**93.8**	**28.8**	**844**	**296**	**347**	**27.8**	38.0	Eco
Potassium	**138 J**	**918**	**338 J**	**894**	**173 J**	**601**	**172 J**	**144 J**	**236 J**	**323 J**	**464 J**	2,050	UPL
Selenium	0.407 U	**0.704 J**	0.424 U	0.456 U	0.380 U	**0.656 J**	**0.670 J**	0.412 U	0.428 U	0.422 U	**0.678 J**	0.520	Eco
Silver	**0.0667 J**	**0.212 J**	**0.0976 J**	**0.155 J**	**0.114 J**	**0.143 J**	**0.0627 J**	**0.102 J**	**0.139 J**	**0.259 J**	**0.174 J**	4.20	Eco
Sodium	153 U	157 U	159 U	171 U	143 U	166 U	149 U	155 U	161 U	158 U	**196 J**	341	UPL
Thallium	**0.0622 J**	**0.0681 J**	**0.0987 J**	**0.0802 J**	**0.0551 J**	**0.101 J**	0.0487 U	0.0505 U	**0.0687 J**	**0.0557 J**	**0.147 J**	1.00	Eco
Vanadium	**21.1**	**29.2**	**27.0**	**34.4**	**12.5**	**47.7**	**6.89**	**21.9**	**30.0**	**47.7**	**73.7**	104	UPL
Zinc	**84.1 J**	**229**	**113 J**	**83.0 J**	**112**	**107**	**129**	**120**	**176**	**328**	**50.3**	71.7	UPL
Petroleum Hydrocarbons (mg/kg dry)													
Diesel Range Organics	**94.0**	**31.6**	**33.4**	**19.5 J**	**63.1**	**22.1 J**	**30.3**	**66.4**	**46.4**	**53.4**	**22.1 J**	23,000	HH
Residual Range Organics	**388**	**224**	**177**	**165**	**469**	**106**	**328**	**448**	**321**	**511**	**124**	40,000	HH
Gasoline Range Organics	-	-	-	-	-	-	-	-	-	-	-	13,000	HH
Butyltins (µg/kg dry)													
Dibutyltin	0.589 U	**37.4**	0.653 U	0.755 U	0.695 U	0.842 U	0.721 U	0.582 U	0.683 U	0.651 U	0.786 U	28,000	Eco
Monobutyltin	1.30 U	1.40 U	**24.0**	1.66 U	1.53 U	1.86 U	1.59 U	1.28 U	1.51 U	1.43 U	1.73 U	28,000	Eco
Tetrabutyltin	0.455 U	0.492 U	0.505 U	0.583 U	0.537 U	0.651 U	0.557 U	0.449 U	0.528 U	0.503 U	0.607 U	28,000	Eco
Tributyltin	0.938 U	**45.4**	**38.9**	1.20 U	1.11 U	1.34 U	1.15 U	0.926 U	1.09 U	1.04 U	1.25 U	28,000	Eco

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit

[1] Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandlbast Area AOPC soil samples.
- = Not Analyzed
-- = SLV for analyte not available
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-4d
2002 Sandblast Preliminary Assessment/Site Inspection Soil and Sandblast Grit Analytical Results
Sandblast Area
PCB Aroclors, Metals, Petroleum Hydrocarbons, and Butyltins

Site ID	SBB14	SBB15	SBB15	SBB16	SBB16	SBB17	SBB17	SBB18	SBB18	SBB23	SBB24	**Selected SLV (0-3 ft bgs)**	**SLV Source (0-3 ft bgs)**
Sample ID	011205SBB14SBG	011205SBB15SBG	011205SBB21SS	011205SBB16SBG	011206SBB22ss	011205SBB17SBG	011205SBB19SS	011205SBB18SBG	011205SBB20SS	011206SBB23SBG	011206SBB24SBG		
Sample Date	12/5/2001	12/5/2001	12/5/2001	12/5/2001	12/6/2001	12/5/2001	12/5/2001	12/5/2001	12/5/2001	12/6/2001	12/6/2001		
Sample Depth (Feet bgs)	2.0	0.0-0.5	1.0	0.0-0.5	1.5	0.0-0.5	3.0	0.0-0.5	2.5	0.0-0.5	0.0-0.5		
Medium	Sandblast Grit	Sandbl	Soil	Sandblast Grit	Soil	Sandblast Grit	Soil	Sandblast Grit	Soil	Sandblast Grit	Sandblast Grit		
PCB Aroclors (µg/kg dry)													
Aroclor 1016	1.24 U	1.09 U	1.22 U	1.18 U	1.33 U	1.23 U	1.38 U	1.20 U	1.45 U	1.32 U	1.28 U	371	Eco
Aroclor 1221	5.32 U	4.66 U	5.21 U	5.07 U	5.70 U	5.28 U	5.89 U	5.15 U	6.21 U	5.67 U	5.49 U	371	Eco
Aroclor 1232	4.24 U	3.72 U	4.16 U	4.05 U	4.55 U	4.21 U	4.70 U	4.11 U	4.95 U	4.53 U	4.38 U	371	Eco
Aroclor 1242	2.27 U	1.99 U	2.23 U	2.16 U	2.43 U	2.25 U	2.51 U	2.20 U	2.65 U	2.42 U	2.34 U	371	Eco
Aroclor 1248	5.64 U	4.95 U	5.54 U	5.39 U	6.05 U	5.60 U	6.26 U	5.46 U	6.59 U	6.02 U	5.82 U	371	Eco
Aroclor 1254	1.76 U	1.54 U	1.73 U	1.68 U	1.89 U	1.75 U	1.95 U	1.70 U	2.06 U	1.88 U	1.82 U	371	Eco
Aroclor 1260	**4.95 J**	**64.0**	**20.8**	**193**	**13.4**	**18.7**	**4.17 J**	**17.4**	2.06 U	**7.09 J**	**6.95 J**	371	Eco
Total PCBs as Aroclors (NDs at MDL) [1]	**6.71 J**	**65.5 J**	**22.5 J**	**195 J**	**15.3 J**	**20.5 J**	**6.12 J**	**19.1 J**	4.12 U	**8.97 J**	**8.77 J**	371	Eco
Metals (mg/kg dry)													
Aluminum	**7,570**	**1,830**	**7,130**	**2,390**	**8,430**	**4,880**	**9,760**	**7,650**	**16,000 J**	**1,590**	**2,130**	31,400	UPL
Antimony	**1.19 J**	**1.14 J**	**0.510 J**	**1.13 J**	**0.832 J**	**0.858 J**	**1.06 J**	**9.51**	4.01 U	**0.406 J**	**0.249 J**	0.270	Eco
Arsenic	**3.14**	**0.794 J**	**3.91**	**2.89**	**4.51**	**1.52**	**4.80**	**80.9**	**1.64**	**0.981 J**	0.159 U	5.40	UPL
Barium	**73.6**	**26.0**	**59.4**	**63.1**	**51.0**	**54.7**	**82.1**	**118**	**112**	**10.7**	**12.3**	330	Eco
Beryllium	**0.184 J**	0.147 U	**0.351 J**	0.155 U	**0.318 J**	0.191 U	**0.482 J**	0.181 U	**0.598**	0.175 U	0.168 U	21.0	Eco
Cadmium	**1.26**	**2.61**	**0.613**	**1.04**	**1.27**	**0.677**	**0.978**	**1.42**	**0.867**	**0.429 J**	**0.305 J**	0.360	Eco
Calcium	**5,360**	**1,170**	**4,300**	**1,070**	**5,310**	**2,630**	**4,460**	**15,100**	**7,670 J**	**1,180**	**1,520**	10,400	UPL
Chromium	**55.9**	**1,100**	**21.9**	**783**	**51.8**	**625**	**53.4**	**533**	**25.1**	**931**	**1,320**	28.1	UPL
Cobalt	**11.6**	**13.9**	**11.5**	**13.7**	**12.1**	**15.0**	**15.1**	**19.3**	**16.3**	**20.3**	**21.6**	19.9	UPL
Copper	**58.3**	**23.4**	**45.7**	**36.7**	**57.0**	**25.1**	**45.3**	**319**	**65.7**	**18.8**	**15.8**	56.7	UPL
Iron	**22,500**	**24,200**	**19,000**	**22,800**	**22,600**	**22,200**	**19,800**	**39,000**	**33,600**	**22,700**	**27,900**	36,900	UPL
Lead	**508 J**	**280 J**	**134 J**	**783 J**	**390 J**	**516 J**	**31.9 J**	**258 J**	**31.2**	**67.5 J**	**51.5 J**	25.5	UPL
Magnesium	**5,850**	**32,600**	**5,160**	**22,000**	**6,660**	**22,300**	**5,480**	**19,600**	**11,400 J**	**33,500**	**47,500**	12,400	UPL
Manganese	**281**	**413**	**399**	**350**	**372**	**408**	**323**	**674**	**585 J**	**362**	**493**	885	UPL
Mercury	**0.0363**	0.0281 U	**0.0406 J**	**0.0335 J**	**0.0560**	**0.0345 J**	**0.0341 J**	0.0275 U	**0.153**	0.0263 U	0.0285 U	0.0660	UPL
Nickel	**33.4**	**444**	**18.8**	**586**	**32.2**	**399**	**40.7**	**321**	**23.9**	**1,060**	**617**	38.0	Eco
Potassium	**636**	**74.9 J**	**551**	**105 J**	**566**	**330 J**	**602**	**1,020**	**644**	**91.4 J**	**116 J**	2,050	UPL
Selenium	**0.558 J**	0.351 U	**0.511 J**	**0.586 J**	**0.642 J**	0.455 U	**0.835 J**	**0.675 J**	0.517 U	**0.453 J**	0.401 U	0.520	Eco
Silver	**0.165 J**	0.0440 U	**0.0882 J**	**0.0596 J**	**0.117 J**	**0.0813 J**	**0.265 J**	**0.268 J**	**0.146 J**	0.0524 U	0.0503 U	4.20	Eco
Sodium	**173 J**	132 U	158 U	139 U	171 U	171 U	195 U	163 U	**219 J**	157 U	150 U	341	UPL
Thallium	**0.118 J**	0.0429 U	**0.0915 J**	0.0455 U	**0.0981 J**	0.0558 U	**0.129 J**	**0.114 J**	**0.110 J**	0.0511 U	0.0490 U	1.00	Eco
Vanadium	**54.6**	**12.7**	**36.9**	**8.66**	**33.0**	**25.3**	**53.5**	**34.4**	**72.4**	**14.4**	**16.1**	104	UPL
Zinc	**74.5**	**1,160**	**58.2**	**230**	**94.2**	**145**	**62.6**	**703**	**77.6 J**	**56.1**	**57.9**	71.7	UPL
Petroleum Hydrocarbons (mg/kg dry)													
Diesel Range Organics	**39.8**	**740**	**972**	**107**	**23.6 J**	**45.7**	**21.2 J**	**69.0**	**1,440**	**92.0**	**97.9**	23,000	HH
Residual Range Organics	**369**	**325**	**158**	**1,340**	**98.4**	**328**	**45.6 J**	**523**	**641**	**639**	**607**	40,000	HH
Gasoline Range Organics	-	-	-	-	-	-	-	-	-	-	-	13,000	HH
Butyltins (µg/kg dry)													
Dibutyltin	0.613 U	-	-	**64.5**	0.799 U	0.706 U	0.769 U	**210 J**	0.850 U	0.738 U	0.709 U	28,000	Eco
Monobutyltin	1.35 U	-	-	**8.78**	1.76 U	**8.00**	1.69 U	**108 J**	1.87 U	1.63 U	1.56 U	28,000	Eco
Tetrabutyltin	0.473 U	-	-	0.531 U	0.618 U	0.546 U	0.594 U	**3.99 J**	0.657 U	0.571 U	0.548 U	28,000	Eco
Tributyltin	0.975 U	-	-	**23.6**	1.27 U	**39.2**	1.22 U	**1,860 J**	1.35 U	1.18 U	1.13 U	28,000	Eco

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit

[1] Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandlbast Area AOPC soil samples.
- = Not Analyzed
-- = SLV for analyte not available
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-4e
2002 Sandblast Preliminary Assessment/Site Inspection Soil Analytical Results
Transformer Release Area
PCB Aroclors, Metals, Petroleum Hydrocarbons, and Butyltins

Site ID	TRA01	TRA01	TRA02	TRA03	TRA03	TRA04	TRA05	TRA05	TRA06*	TRA07	TRA07	TRA09*	TRA11	TRA12	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	011204TRA01SS	011204TRA14SS	011204TRA02SS	011204TRA03SS	011204TRA13SS	011204TRA04SS	011204TRA05SS	011206TRA16ss	011204TRA06SS	011204TRA07SS	011206TRA15ss	011204TRA09SS	011204TRA11SS	011204TRA12SS		
Sample Date	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/4/2001	12/6/2001	12/4/2001	12/4/2001	12/6/2001	12/4/2001	12/4/2001	12/4/2001		
Sample Depth (Feet bgs)	0.0-1.0	3.0	0.0-1.0	0.0-1.0	1.8	0.0-1.0	0.0-1.0	2.5	0.0-1.0	0.0-1.0	2.0	0.0-1.0	0.0-1.0	0.0-1.0		
PCB Aroclors (µg/kg dry)																
Aroclor 1016	1.20 U	1.38 U	1.16 U	1.22 U	1.28 U	1.25 U	1.25 U	1.28 U	1.28 U	1.31 U	1.24 U	1.32 U	1.27 U	1.27 U	371	Eco
Aroclor 1221	5.16 U	5.91 U	4.98 U	5.24 U	5.49 U	5.37 U	5.34 U	5.47 U	5.49 U	5.61 U	5.33 U	5.67 U	5.42 U	5.44 U	371	Eco
Aroclor 1232	4.12 U	4.72 U	3.98 U	4.18 U	4.39 U	4.28 U	4.26 U	4.36 U	4.39 U	4.48 U	4.25 U	4.52 U	4.33 U	4.35 U	371	Eco
Aroclor 1242	2.20 U	2.52 U	2.13 U	2.24 U	2.34 U	2.29 U	2.28 U	2.33 U	2.22 U	2.39 U	2.27 U	2.42 U	2.31 U	2.32 U	371	Eco
Aroclor 1248	5.47 U	6.28 U	5.29 U	5.57 U	5.83 U	5.70 U	5.67 U	5.80 U	5.83 U	5.95 U	5.66 U	6.02 U	5.75 U	5.78 U	371	Eco
Aroclor 1254	1.71 U	1.96 U	1.65 U	1.74 U	1.82 U	1.78 U	1.77 U	1.81 U	1.82 U	1.86 U	1.76 U	1.88 U	1.80 U	1.80 U	371	Eco
Aroclor 1260	**23.5**	1.96 U	**42.2**	**43.2**	**2.64 J**	**98.8**	**121**	1.81 U	**65.8**	**21.7**	**4.42 J**	**26.8**	**282**	**96.2**	371	Eco
Total PCBs as Aroclors (NDs at MDL) [1]	**25.2 J**	3.92 U	**43.9 J**	**44.9 J**	**4.46 J**	**101 J**	**123 J**	3.62 U	**67.6 J**	**23.6 J**	**6.18 J**	**28.7 J**	**284 J**	**98.0 J**	371	Eco
Metals (mg/kg dry)																
Aluminum	**5,280 J**	**8,170 J**	**2,260 J**	**2,370 J**	**6,280 J**	**2,560 J**	**2,800 J**	**8,620 J**	**1,915 J**	**6,350 J**	**9,320 J**	**8,905 J**	**3,090 J**	**2,590 J**	31,400	UPL
Antimony	**1.75 J**	**1.15 J**	2.83 U	**1.74 J**	**1.10 J**	**2.56 J**	**1.52 J**	3.33 U	**2.14 J**	**1.86 J**	3.01 U	**5.74 J**	**2.42 J**	3.43 U	0.270	Eco
Arsenic	**3.03**	**7.58**	**2.08**	**4.69**	**7.73**	**9.57**	**2.37**	**7.64**	**9.73**	**5.83**	**9.29**	**12.0**	**8.15**	**2.87**	5.40	UPL
Barium	**60.3**	**69.8**	**34.0**	**27.7**	**50.4**	**45.5**	**29.3**	**72.0**	**40.1**	**55.1**	**60.2**	**86.2**	**54.1**	**35.7**	330	Eco
Beryllium	0.162 U	**0.295 J**	0.153 U	0.157 U	**0.248 J**	0.176 U	0.171 U	**0.380 J**	0.168 U	0.190 U	**0.369 J**	**0.241 J**	0.190 U	0.185 U	21.0	Eco
Cadmium	**0.824**	**1.16**	**1.19**	**0.750**	**0.646**	**1.82**	**1.04**	**0.853**	**1.27**	**1.55**	**0.801**	**1.76**	**2.53**	**1.07**	0.360	Eco
Calcium	**2,970**	**5,530**	**1,760**	**1,830**	**4,600**	**2,230**	**1,800**	**5,650**	**2,760**	**3,490**	**5,970**	**4,610**	**2,680**	**2,610**	10,400	UPL
Chromium	**43.2 J**	**27.1 J**	**25.6 J**	**171 J**	**38.2 J**	**560 J**	**70.1 J**	**19.0 J**	**518 J**	**104 J**	**14.8 J**	**205 J**	**749 J**	**123 J**	28.1	UPL
Cobalt	**7.28**	**13.5**	**4.63**	**7.46**	**10.8**	**12.1**	**5.20**	**14.1**	**11.7**	**10.8**	**15.1**	**14.2**	**13.8**	**6.95**	19.9	UPL
Copper	**24.6**	**42.7**	**37.9**	**25.8**	**31.1**	**116**	**26.9**	**37.9**	**96.4**	**52.4**	**42.6**	**68.3**	**68.4**	**29.6**	56.7	UPL
Iron	**15,900 J**	**22,700 J**	**15,500 J**	**17,200 J**	**19,100 J**	**46,500 J**	**15,500 J**	**22,900 J**	**34,400 J**	**24,400 J**	**23,700 J**	**30,950 J**	**30,000 J**	**15,800 J**	36,900	UPL
Lead	**1,080 J**	**767 J**	**612 J**	**193 J**	**75.4 J**	**462 J**	**627 J**	**30.2 J**	**273 J**	**639 J**	**17.5 J**	**547 J**	**358 J**	**346 J**	25.5	UPL
Magnesium	**3,240 J**	**5,670 J**	**1,630 J**	**6,880 J**	**5,620 J**	**15,300 J**	**2,770 J**	**6,860 J**	**15,800 J**	**7,250 J**	**7,540 J**	**9,860 J**	**23,000 J**	**5,110 J**	12,400	UPL
Manganese	**206 J**	**475 J**	**226 J**	**211 J**	**350 J**	**558 J**	**229 J**	**531 J**	**426 J**	**386 J**	**418 J**	**603 J**	**529 J**	**198 J**	885	UPL
Mercury	0.0230 U	**0.0518**	0.0277 U	0.0283 U	**0.0329 J**	**0.0666**	**0.105**	**0.0254 J**	**0.0440**	**0.105**	0.0297 U	**0.0672**	**0.0301 J**	0.0268 U	0.0660	UPL
Nickel	**22.1 J**	**20.7 J**	**15.9 J**	**74.4 J**	**21.0 J**	**269 J**	**33.9 J**	**18.0 J**	**262 J**	**44.7 J**	**16.6 J**	**96.7 J**	**247 J**	**60.2 J**	38.0	Eco
Potassium	**268 J**	**509**	**137 J**	**119 J**	**363 J**	**158 J**	**144 J**	**499**	**145 J**	**331 J**	**564**	**386 J**	**186 J**	**225 J**	2,050	UPL
Selenium	0.39 U	0.46 U	**0.384 J**	0.38 U	0.43 U	0.42 U	0.41 U	**0.501 J**	**0.403 J**	**0.675 J**	0.39 U	**0.649 J**	0.45 U	0.44 U	0.520	Eco
Silver	**0.138 J**	**0.156 J**	**0.0840 J**	**0.0837 J**	**0.105 J**	**0.101 J**	**0.0847 J**	**0.159 J**	**0.110 J**	**0.173 J**	**0.141 J**	**0.167 J**	**0.118 J**	**0.0880 J**	4.20	Eco
Sodium	**419**	174 U	137 U	141 U	**183 J**	158 U	154 U	**267**	151 U	171 U	**249**	164 U	171 U	166 U	341	UPL
Thallium	**0.0803 J**	**0.152 J**	0.045 U	**0.0477 J**	**0.103 J**	0.052 U	**0.0519 J**	**0.255 J**	0.049 U	**0.145 J**	**0.156 J**	**0.0872 J**	0.056 U	0.054 U	1.00	Eco
Vanadium	**38.7**	**49.8**	**17.0**	**23.4**	**36.8**	**28.8**	**24.8**	**46.0**	**24.0**	**46.4**	**49.5**	**48.3**	**29.7**	**30.4**	104	UPL
Zinc	**82.7**	**85.4**	**121**	**75.6**	**69.6**	**211**	**91.9**	**47.8**	**175**	**190**	**45.6**	**259**	**211**	**119**	71.7	UPL
Petroleum Hydrocarbons (mg/kg dry)																
Diesel Range Organics	**30.3**	**70.6**	**70.4**	**59.3**	14.6 U	**54.7**	**48.2**	14.2 U	**39.7**	**35.1**	14.9 U	**16.1 J**	**122**	**40.9**	23,000	HH
Residual Range Organics	**168**	**1,280**	**550**	**1,010**	**35.0 J**	**453**	**525**	**29.8 J**	**301**	**195**	29.7 U	**140**	**276**	**407**	40,000	HH
Gasoline Range Organics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,000	HH
Butyltins (µg/kg dry)																
Dibutyltin	0.65 U	0.80 U	0.58 U	0.58 U	0.76 U	0.70 U	0.68 U	0.77 U	**44.8**	0.69 U	0.72 U	0.67 U	**63.5**	0.78 U	28,000	Eco
Monobutyltin	1.03 U	1.77 U	1.29 U	0.92 U	1.67 U	1.54 U	1.49 U	1.71 U	**10.5**	1.10 U	1.59 U	1.48 U	**8.91**	1.73 U	28,000	Eco
Tetrabutyltin	0.50 U	0.62 U	0.45 U	0.45 U	0.59 U	0.54 U	0.52 U	0.60 U	0.51 U	0.54 U	0.56 U	0.52 U	0.60 U	0.61 U	28,000	Eco
Tributyltin	1.43 U	1.28 U	0.93 U	1.27 U	1.21 U	1.11 U	1.49 U	1.23 U	**427**	1.53 U	1.15 U	1.15 U	**65.8**	1.25 U	28,000	Eco

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit

[1] Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandlbast Area AOPC soil samples.
- = Not Analyzed
-- = SLV for analyte not available
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-5a
2004 Sandblast Supplemental Site Inspection Soil and Sandblast Grit Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, Butyltins, and Pesticides
(Page 1 of 3)

Site ID	DP10	DP11*	DP12	DP5	DP6	DP7*	DP8	DP9	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)	Selected SLV (>3 ft bgs)	SLV Source (>3 ft bgs)
Sample ID	041118SGA10SS	041118SGA11SS	041118SGA13SS	041116SGA02SS	041117SGA04SS	041117SGA05SS	041117SGA08SS	041117SGA09SS				
Sample Date	11/17/2004	11/17/2004	11/17/2004	11/16/2004	11/17/2004	11/17/2004	11/17/2004	11/17/2004				
Sample Depth (Feet bgs)	9.0-12.0	7.5-9.5	6.5-9.5	21.0-23.0	15.0-17.0	14.0-16.5	13.0-15.0	14.0-17.0				
Medium	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
PCB Aroclors (µg/kg dry)												
Aroclor 1016	-	-	-	2.61 U	2.85 U	2.76 U	2.65 U	3.00 U	371	Eco	21,000	HH
Aroclor 1221	-	-	-	2.61 U	2.85 U	2.76 U	2.65 U	3.00 U	371	Eco	540	HH
Aroclor 1232	-	-	-	2.61 U	2.85 U	2.76 U	2.65 U	3.00 U	371	Eco	540	HH
Aroclor 1242	-	-	-	2.61 U	2.85 U	2.76 U	2.65 U	3.00 U	371	Eco	740	HH
Aroclor 1248	-	-	-	2.61 U	2.85 U	2.76 U	2.65 U	3.00 U	371	Eco	740	HH
Aroclor 1254	-	-	-	1.43 U	1.57 U	1.51 U	1.45 U	1.65 U	371	Eco	740	HH
Aroclor 1260	-	-	-	1.43 U	1.57 U	1.51 U	1.45 U	1.65 U	371	Eco	740	HH
Total PCBs as Aroclors (NDs at MDL) [1]	-	-	-	2.86 U	3.14 U	3.02 U	2.90 U	3.30 U	371	Eco	740	HH
Metals (mg/kg dry)												
Aluminum	**15,600**	**13,600**	**17,000**	**10,200**	**12,900**	**11,550**	**7,460**	**12,500**	31,400	UPL	990,000	HH
Antimony	**0.194 J**	**0.218 J**	**0.285**	**0.256**	**0.228 J**	**0.433 J**	**0.107 J**	**0.184 J**	0.270	Eco	410	HH
Arsenic	**2.66**	**3.68**	**4.20**	**7.28**	**6.75**	**9.83 J**	**1.32**	**4.83**	5.40	UPL	5.40	UPL
Barium	**41.8**	**101**	**108**	**77.7**	**97.3**	**91.5**	**48.8**	**89.0**	330	Eco	60,000	HH
Beryllium	**0.314**	**0.371**	**0.372**	**0.454**	**0.379**	**0.380**	**0.258**	**0.488**	21.0	Eco	610	HH
Cadmium	0.0135 U	0.0130 U	0.0140 U	0.0125 U	0.0150 U	0.0135 U	0.0121 U	0.0143 U	0.360	Eco	150	HH
Calcium	**6,150**	**3,930**	**4,410**	**5,700**	**7,420**	**7,155**	**3,860**	**7,410**	10,400	UPL	10,400	UPL
Chromium	**23.6**	**20.1**	**26.4**	**19.0 J**	**19.9**	**21.3 J**	**10.5**	**20.3**	28.1	UPL	190	HH
Cobalt	**18.7**	**14.6**	**15.7**	**13.5**	**13.5**	**15.5 J**	**11.4**	**14.6**	19.9	UPL	300	HH
Copper	**67.6**	**30.0**	**33.5**	**47.4**	**51.6**	**51.9**	**26.7**	**53.3 J**	56.7	UPL	12,000	HH
Iron	**30,200**	**22,200**	**26,500**	**23,700**	**25,300**	**23,800**	**17,000**	**27,000**	36,900	UPL	720,000	HH
Lead	**6.06**	**5.24**	**5.70**	**6.23**	**5.35**	**6.64**	**2.60**	**5.37**	25.5	UPL	800	HH
Magnesium	**13,600**	**5,125**	**7,540**	**5,770**	**8,010**	**7,130**	**5,280**	**8,660**	12,400	UPL	12,400	UPL
Manganese	**500**	**411**	**818**	**423**	**481**	**439**	**380**	**599**	885	UPL	7,200	HH
Mercury	**0.0301**	**0.0203 J**	**0.0534**	**0.0362**	**0.0201 J**	**0.0544**	**0.0215 J**	**0.0209 J**	0.0660	UPL	93.0	HH
Nickel	**24.4**	**15.4**	**29.0**	**17.4**	**19.5**	**21.7**	**12.7**	**22.4**	38.0	Eco	6,100	HH
Potassium	**377**	**705**	**546**	**544**	**773**	**634**	**550**	**670**	2,050	UPL	2,050	UPL
Selenium	**0.343**	**0.324**	**0.316**	**0.407**	**0.322**	**0.602 J**	**0.180 J**	**0.302**	0.520	Eco	5,100	HH
Silver	**0.103 J**	**0.144 J**	**0.122 J**	**0.136 J**	**0.149 J**	**0.158 J**	**0.114 J**	**0.109 J**	4.20	Eco	1,500	HH
Sodium	**119**	12.4 U	**114 J**	11.9 U	**96.9 J**	**141**	11.5 U	**187 J**	341	UPL	341	UPL
Thallium	**0.0940 J**	**0.135 J**	**0.216 J**	**0.130 J**	**0.157 J**	**0.180 J**	**0.0765 J**	**0.145 J**	1.00	Eco	0.203	UPL
Vanadium	**53.3**	**65.0**	**72.2**	**54.3**	**60.3**	**57.9 J**	**45.0**	**52.2**	104	UPL	104	UPL
Zinc	**53.9**	**44.9**	**50.6**	**46.3**	**54.1**	**53.3**	**35.1**	**54.1**	71.7	UPL	310,000	HH
Petroleum Hydrocarbons (mg/kg dry)												
Diesel Range Organics	5.69 U	5.57 U	5.56 U	5.31 U	5.44 U	5.50 U	5.14 U	5.89 U	23,000	HH	23,000	HH
Residual Range Organics	11.3 U	11.1 U	11.1 U	10.6 U	10.9 U	11.0 U	10.2 U	11.7 U	40,000	HH	40,000	HH
Gasoline Range Organics	0.136 U	4.72 U	4.85 U	4.63 U	4.83 U	4.73 U	4.32 U	4.79 U	13,000	HH	13,000	HH
Butyltins (µg/kg dry)												
Dibutyltin	-	-	-	**5.73**	**7.75 J**	**16.6 J**	**28.3 J**	**3.62 J**	28,000	Eco	180,000	HH
Monobutyltin	-	-	-	**11.1**	**6.28 J**	**7.43 J**	**13.0 J**	**8.89 J**	28,000	Eco	180,000	HH
Tetrabutyltin	-	-	-	0.846 U	0.913 U	0.877 U	0.843 U	0.930 U	28,000	Eco	180,000	HH
Tributyltin	-	-	-	1.04 U	1.12 U	1.08 U	**2.58 J**	1.14 U	28,000	Eco	180,000	HH
Pesticides (µg/kg dry)												
4,4'-DDD	-	-	-	0.222 U	0.241 U	0.222 U	0.217 U	0.250 U	21.0	Eco	11,000	HH
4,4'-DDE	-	-	-	0.218 U	0.236 U	0.218 U	0.213 U	0.245 U	21.0	Eco	7,700	HH
4,4'-DDT	-	-	-	0.256 U	0.278 U	0.256 U	0.250 U	0.288 U	21.0	Eco	7,700	HH
Aldrin	-	-	-	0.112 U	0.122 U	0.112 U	0.110 U	0.126 U	4.90	Eco	130	HH
BHC (alpha)	-	-	-	0.109 U	0.118 U	0.109 U	0.107 U	0.122 U	340	HH	340	HH
BHC (beta)	-	-	-	0.121 U	0.131 U	0.121 U	0.118 U	0.136 U	960	HH	960	HH
BHC (delta)	-	-	-	0.109 U	0.118 U	0.109 U	0.107 U	0.122 U	340	HH	340	HH
BHC (gamma) Lindane	-	-	-	0.131 U	0.142 U	0.131 U	0.128 U	0.147 U	2,000	HH	2,000	HH
Chlordane (alpha)	-	-	-	0.118 U	0.128 U	0.117 U	0.115 U	0.132 U	7,200	HH	7,200	HH
Chlordane (gamma)	-	-	-	0.132 U	0.143 U	0.132 U	0.129 U	0.148 U	7,200	HH	7,200	HH
Dieldrin	-	-	-	0.264 U	0.287 U	0.264 U	0.259 U	0.298 U	4.90	Eco	130	HH
Endosulfan I	-	-	-	0.122 U	0.132 U	0.122 U	0.119 U	0.137 U	20,000	Eco	1,400,000	HH
Endosulfan II	-	-	-	0.278 U	0.302 U	0.277 U	0.272 U	0.312 U	20,000	Eco	1,400,000	HH
Endosulfan Sulfate	-	-	-	0.520 U	0.565 U	0.520 U	0.509 U	0.585 U	20,000	Eco	1,400,000	HH
Endrin	-	-	-	0.136 U	0.148 U	0.136 U	0.133 U	0.153 U	4.90	Eco	71,000	HH
Endrin Aldehyde	-	-	-	0.631 U	0.686 U	0.631 U	0.618 U	0.710 U	4.90	Eco	71,000	HH
Endrin Ketone	-	-	-	0.122 U	0.132 U	0.122 U	0.119 U	0.137 U	4.90	Eco	71,000	HH
Heptachlor	-	-	-	0.109 U	0.118 U	0.109 U	0.107 U	0.122 U	480	HH	480	HH
Heptachlor Epoxide	-	-	-	0.149 U	0.162 U	0.149 U	0.146 U	0.168 U	240	HH	240	HH
Methoxychlor	-	-	-	0.157 U	0.170 U	0.157 U	0.153 U	0.176 U	500,000	Eco	3,100,000	HH
Toxaphene	-	-	-	10.9 U	11.8 U	10.9 U	10.7 U	12.2 U	2,000	HH	2,000	HH

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
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[1] Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandlbast Area AOPC soil samples.
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J = The reported value is an estimate.
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bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
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Table 5-5a
2004 Sandblast Supplemental Site Inspection Soil and Sandblast Grit Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, Butyltins, and Pesticides
(Page 2 of 3)

Site ID	HA1*	HA10	HA11	HA11	HA12	HA2	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)	Selected SLV (>3 ft bgs)	SLV Source (>3 ft bgs)
Sample ID	041122SGA14SS	041123SGA29SS	041123SGA30SS	041123SGA31SS	041123SGA33SS	041122SGA16SS				
Sample Date	11/22/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/22/2004				
Sample Depth (Feet bgs)	0.5	0.5	1.0	3.0	4.0	0.5				
Medium	Soil	Soil	Soil	Soil	Soil	Soil				
PCB Aroclors (µg/kg dry)										
Aroclor 1016	3.41 U	2.90 U	3.48 U	3.47 U	-	3.01 U	371	Eco	21,000	HH
Aroclor 1221	3.41 U	2.90 U	3.48 U	3.47 U	-	3.01 U	371	Eco	540	HH
Aroclor 1232	3.41 U	2.90 U	3.48 U	3.47 U	-	3.01 U	371	Eco	540	HH
Aroclor 1242	3.41 U	2.90 U	3.48 U	3.47 U	-	3.01 U	371	Eco	740	HH
Aroclor 1248	3.41 U	2.90 U	3.48 U	3.47 U	-	3.01 U	371	Eco	740	HH
Aroclor 1254	1.87 U	1.59 U	1.91 U	1.91 U	-	1.65 U	371	Eco	740	HH
Aroclor 1260	**8.54 J**	1.59 U	**6.40 J**	1.91 U	-	**4.11 J**	371	Eco	740	HH
Total PCBs as Aroclors (NDs at MDL) [1]	**10.4 J**	3.18 U	**8.31 J**	3.82 U	-	**5.76 J**	371	Eco	740	HH
Metals (mg/kg dry)										
Aluminum	**11,390**	**3,770**	**15,000**	**23,100**	**14,600**	**7,100**	31,400	UPL	990,000	HH
Antimony	**0.316**	**0.0895 J**	**0.893**	**0.245 J**	**1.70**	**0.164 J**	0.270	Eco	410	HH
Arsenic	**4.44**	**0.613**	**3.26**	**3.05**	**8.22**	**0.936**	5.40	UPL	5.40	UPL
Barium	**100**	**49.2**	**112**	**123**	**104**	**64.1**	330	Eco	60,000	HH
Beryllium	**0.304**	**0.131 J**	**0.349**	**0.385**	**0.378**	**0.260**	21.0	Eco	610	HH
Cadmium	0.0127 U	0.0127 U	0.0129 U	0.0148 U	0.0133 U	0.0123 U	0.360	Eco	150	HH
Calcium	**6,245**	**3,740**	**10,200**	**9,860**	**7,090**	**4,390**	10,400	UPL	10,400	UPL
Chromium	**19.3**	**5.27**	**221**	**29.8**	**55.4**	**6.19**	28.1	UPL	190	HH
Cobalt	**15.9**	**11.0**	**16.0**	**19.7**	**14.7**	**14.0**	19.9	UPL	300	HH
Copper	**47.6**	**16.7**	**64.0**	**66.4**	**77.6**	**21.3**	56.7	UPL	12,000	HH
Iron	**28,450**	**19,400**	**33,300**	**35,200**	**27,600**	**23,200**	36,900	UPL	720,000	HH
Lead	**128**	**9.71**	**49.1**	**8.61**	**21.5**	**46.3**	25.5	UPL	800	HH
Magnesium	**7,850**	**2,600**	**9,110**	**13,900**	**7,590**	**3,900**	12,400	UPL	12,400	UPL
Manganese	**554**	**301**	**611**	**816**	**582**	**459**	885	UPL	7,200	HH
Mercury	**0.0149 J**	**0.0268**	**0.0359**	**0.0131 J**	**0.0219**	0.00528 U	0.0660	UPL	93.0	HH
Nickel	**20.2**	**5.35**	**58.6**	**26.9**	**28.3**	**6.81**	38.0	Eco	6,100	HH
Potassium	**787**	**360**	**627**	**615**	**654**	**778**	2,050	UPL	2,050	UPL
Selenium	**0.272**	**0.255 J**	**0.284**	**0.330**	**0.277**	**0.289**	0.520	Eco	5,100	HH
Silver	**0.123**	**0.0870**	**0.107**	**0.154**	**0.170**	**0.120**	4.20	Eco	1,500	HH
Sodium	12.1 U	12.1 U	12.3 U	**278**	12.7 U	11.7 U	341	UPL	341	UPL
Thallium	**0.116 J**	**0.0463 J**	**0.135 J**	**0.110 J**	**0.102 J**	**0.101 J**	1.00	Eco	0.203	UPL
Vanadium	**58.9**	**52.7**	**69.6**	**89.1**	**68.7**	**61.9**	104	UPL	104	UPL
Zinc	**88.0**	**31.1**	**90.9**	**58.5**	**120**	**103**	71.7	UPL	310,000	HH
Petroleum Hydrocarbons (mg/kg dry)										
Diesel Range Organics	**24.7 J**	**7.30 J**	-	5.74 U	5.53 U	5.03 U	23,000	HH	23,000	HH
Residual Range Organics	**216**	**153**	-	11.4 U	11.0 U	10.0 U	40,000	HH	40,000	HH
Gasoline Range Organics	4.68 U	0.121 U	-	**132**	4.89 U	4.37 U	13,000	HH	13,000	HH
Butyltins (µg/kg dry)										
Dibutyltin	0.831 U	0.763 U	-	0.887 U	-	0.774 U	28,000	Eco	180,000	HH
Monobutyltin	**6.26 J**	**3.45 J**	-	0.632 U	-	**4.08 J**	28,000	Eco	180,000	HH
Tetrabutyltin	0.853 U	0.783 U	-	0.910 U	-	0.795 U	28,000	Eco	180,000	HH
Tributyltin	1.05 U	0.963 U	-	1.12 U	-	0.977 U	28,000	Eco	180,000	HH
Pesticides (µg/kg dry)										
4,4'-DDD	0.236 U	0.200 U	0.255 U	0.256 U	-	0.208 U	21.0	Eco	11,000	HH
4,4'-DDE	0.231 U	0.196 U	0.250 U	0.251 U	-	0.204 U	21.0	Eco	7,700	HH
4,4'-DDT	**5.27**	0.230 U	0.294 U	0.295 U	-	0.240 U	21.0	Eco	7,700	HH
Aldrin	0.119 U	0.101 U	0.129 U	0.129 U	-	0.105 U	4.90	Eco	130	HH
BHC (alpha)	0.116 U	0.0981 U	0.125 U	0.126 U	-	0.102 U	340	HH	340	HH
BHC (beta)	2.09 U	0.109 U	0.139 U	0.139 U	-	1.87 U	960	HH	960	HH
BHC (delta)	0.116 U	0.0981 U	0.125 U	0.126 U	-	0.102 U	340	HH	340	HH
BHC (gamma) Lindane	0.139 U	0.118 U	0.150 U	0.151 U	-	0.122 U	2,000	HH	2,000	HH
Chlordane (alpha)	0.125 U	0.106 U	0.135 U	0.136 U	-	0.110 U	7,200	HH	7,200	HH
Chlordane (gamma)	0.140 U	0.119 U	0.151 U	0.152 U	-	0.123 U	7,200	HH	7,200	HH
Dieldrin	0.281 U	0.238 U	0.304 U	0.305 U	-	0.248 U	4.90	Eco	130	HH
Endosulfan I	0.129 U	0.110 U	0.140 U	0.141 U	-	0.114 U	20,000	Eco	1,400,000	HH
Endosulfan II	0.295 U	0.250 U	0.319 U	0.320 U	-	0.260 U	20,000	Eco	1,400,000	HH
Endosulfan Sulfate	0.553 U	0.469 U	0.598 U	0.600 U	-	0.488 U	20,000	Eco	1,400,000	HH
Endrin	0.145 U	0.123 U	0.156 U	0.157 U	-	0.128 U	4.90	Eco	71,000	HH
Endrin Aldehyde	0.671 U	0.569 U	0.725 U	0.728 U	-	0.592 U	4.90	Eco	71,000	HH
Endrin Ketone	0.129 U	0.110 U	0.140 U	0.141 U	-	0.114 U	4.90	Eco	71,000	HH
Heptachlor	0.116 U	0.0981 U	0.125 U	0.126 U	-	0.102 U	480	HH	480	HH
Heptachlor Epoxide	0.158 U	0.134 U	0.171 U	**0.634 J**	-	0.140 U	240	HH	240	HH
Methoxychlor	0.166 U	0.141 U	0.180 U	0.181 U	-	0.147 U	500,000	Eco	3,100,000	HH
Toxaphene	11.6 U	9.81 U	12.5 U	12.6 U	-	10.2 U	2,000	HH	2,000	HH

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit
- = Not Analyzed

[1] Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandlbast Area AOPC soil samples.
-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-5a
2004 Sandblast Supplemental Site Inspection Soil and Sandblast Grit Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, Butyltins, and Pesticides
(Page 3 of 3)

Site ID	HA3	HA4	HA5	HA6	HA7*	HA8	HA9	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)	Selected SLV (>3 ft bgs)	SLV Source (>3 ft bgs)
Sample ID	041122SGA17SS	041122SGA21SS	041122SGA23SS	041122SGA24SG	041122SGA25SG	041122SGA27SG	041123SGA28SS				
Sample Date	11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/23/2004				
Sample Depth (Feet bgs)	0.5	3.0	3.0	0.0	0.0	0.0	0.5				
Medium	Soil	Soil	Soil	Sandblast Grit	Sandblast Grit	Sandblast Grit	Soil				
PCB Aroclors (µg/kg dry)											
Aroclor 1016	3.23 U	-	-	-	-	-	3.15 U	371	Eco	21,000	HH
Aroclor 1221	3.23 U	-	-	-	-	-	3.15 U	371	Eco	540	HH
Aroclor 1232	3.23 U	-	-	-	-	-	3.15 U	371	Eco	540	HH
Aroclor 1242	3.23 U	-	-	-	-	-	3.15 U	371	Eco	740	HH
Aroclor 1248	3.23 U	-	-	-	-	-	3.15 U	371	Eco	740	HH
Aroclor 1254	1.77 U	-	-	-	-	-	1.73 U	371	Eco	740	HH
Aroclor 1260	**26.1**	-	-	-	-	-	**11.9**	371	Eco	740	HH
Total PCBs as Aroclors (NDs at MDL) [1]	**27.9 J**	-	-	-	-	-	**13.6 J**	371	Eco	740	HH
Metals (mg/kg dry)											
Aluminum	**3,010**	**15,300**	**12,400**	-	-	-	**8,730**	31,400	UPL	990,000	HH
Antimony	**1.11**	**0.495**	**0.319**	-	-	-	**0.441**	0.270	Eco	410	HH
Arsenic	**4.97**	**2.30**	**4.99**	-	-	-	**3.85**	5.40	UPL	5.40	UPL
Barium	**20.9**	**106**	**110**	-	-	-	**86.0**	330	Eco	60,000	HH
Beryllium	**0.0587 J**	**0.387**	**0.433**	-	-	-	**0.243 J**	21.0	Eco	610	HH
Cadmium	**0.0561 J**	0.0143 U	0.0153 U	-	-	-	0.0122 U	0.360	Eco	150	HH
Calcium	**1,980**	**7,030**	**6,040**	-	-	-	**4,960**	10,400	UPL	10,400	UPL
Chromium	**16.1**	**35.4**	**21.1**	**2,650**	**2,305**	**2,480**	**18.2**	28.1	UPL	190	HH
Cobalt	**4.60**	**14.2**	**11.7**	-	-	-	**11.6**	19.9	UPL	300	HH
Copper	**27.4**	**63.6**	**40.2**	-	-	-	**31.0**	56.7	UPL	12,000	HH
Iron	**22,200 J**	**26,700**	**24,700**	-	-	-	**22,700**	36,900	UPL	720,000	HH
Lead	**3,260**	**19.2**	**9.39**	**117**	**68.4**	**66.6**	**354**	25.5	UPL	800	HH
Magnesium	**1,350**	**8,760**	**6,610**	-	-	-	**6,000**	12,400	UPL	12,400	UPL
Manganese	**167**	**366**	**317**	-	-	-	**345**	885	UPL	7,200	HH
Mercury	**0.0114 J**	**0.0804**	**0.0349**	-	-	-	**0.0163 J**	0.0660	UPL	93.0	HH
Nickel	**10.9**	**50.7**	**17.3**	-	-	-	**20.4**	38.0	Eco	6,100	HH
Potassium	**273**	**576**	**1,200**	-	-	-	**433**	2,050	UPL	2,050	UPL
Selenium	0.0781 U	**0.299**	**0.209 J**	-	-	-	**0.175 J**	0.520	Eco	5,100	HH
Silver	**0.0571**	**0.110**	**0.147**	-	-	-	**0.110**	4.20	Eco	1,500	HH
Sodium	12.3 U	**371**	14.6 U	-	-	-	11.7 U	341	UPL	341	UPL
Thallium	**0.0288 J**	**0.164 J**	**0.125 J**	-	-	-	**0.0922 J**	1.00	Eco	0.203	UPL
Vanadium	**28.7**	**71.0**	**59.4**	-	-	-	**55.1**	104	UPL	104	UPL
Zinc	**72.1**	**56.0**	**59.0**	-	-	-	**86.7**	71.7	UPL	310,000	HH
Petroleum Hydrocarbons (mg/kg dry)											
Diesel Range Organics	**1,090 J**	**1,280**	**6.44 J**	-	-	-	5.02 U	23,000	HH	23,000	HH
Residual Range Organics	**1,980 J**	**189**	12.1 U	-	-	-	10.0 U	40,000	HH	40,000	HH
Gasoline Range Organics	4.55 U	**3,960 J**	5.00 U	-	-	-	4.42 U	13,000	HH	13,000	HH
Butyltins (µg/kg dry)											
Dibutyltin	**3.53 J**	-	-	0.710 U	0.813 U	0.805 U	**3.93**	28,000	Eco	180,000	HH
Monobutyltin	**4.90 J**	-	-	0.506 U	0.579 U	0.573 U	0.570 U	28,000	Eco	180,000	HH
Tetrabutyltin	0.842 U	-	-	0.729 U	0.835 U	0.826 U	0.821 U	28,000	Eco	180,000	HH
Tributyltin	**1.65 J**	-	-	0.896 U	**2.53 J**	1.02 U	1.01 U	28,000	Eco	180,000	HH
Pesticides (µg/kg dry)											
4,4'-DDD	0.223 U	-	-	-	-	-	0.220 U	21.0	Eco	11,000	HH
4,4'-DDE	**0.835 J**	-	-	-	-	-	**1.70 J**	21.0	Eco	7,700	HH
4,4'-DDT	**9.83**	-	-	-	-	-	**3.39**	21.0	Eco	7,700	HH
Aldrin	0.113 U	-	-	-	-	-	0.111 U	4.90	Eco	130	HH
BHC (alpha)	0.109 U	-	-	-	-	-	0.108 U	340	HH	340	HH
BHC (beta)	3.78 U	-	-	-	-	-	**0.952 J**	960	HH	960	HH
BHC (delta)	**3.03 J**	-	-	-	-	-	0.108 U	340	HH	340	HH
BHC (gamma) Lindane	**9.68 J**	-	-	-	-	-	0.129 U	2,000	HH	2,000	HH
Chlordane (alpha)	0.118 U	-	-	-	-	-	0.116 U	7,200	HH	7,200	HH
Chlordane (gamma)	0.132 U	-	-	-	-	-	0.130 U	7,200	HH	7,200	HH
Dieldrin	0.266 U	-	-	-	-	-	0.262 U	4.90	Eco	130	HH
Endosulfan I	0.123 U	-	-	-	-	-	0.121 U	20,000	Eco	1,400,000	HH
Endosulfan II	**1.99 J**	-	-	-	-	-	0.275 U	20,000	Eco	1,400,000	HH
Endosulfan Sulfate	0.523 U	-	-	-	-	-	0.515 U	20,000	Eco	1,400,000	HH
Endrin	0.137 U	-	-	-	-	-	0.135 U	4.90	Eco	71,000	HH
Endrin Aldehyde	0.635 U	-	-	-	-	-	0.625 U	4.90	Eco	71,000	HH
Endrin Ketone	0.123 U	-	-	-	-	-	0.121 U	4.90	Eco	71,000	HH
Heptachlor	0.109 U	-	-	-	-	-	0.108 U	480	HH	480	HH
Heptachlor Epoxide	0.150 U	-	-	-	-	-	0.148 U	240	HH	240	HH
Methoxychlor	0.158 U	-	-	-	-	-	0.155 U	500,000	Eco	3,100,000	HH
Toxaphene	10.9 U	-	-	-	-	-	10.8 U	2,000	HH	2,000	HH

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit
- = Not Analyzed

[1] Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandlbast Area AOPC soil samples.
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J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV

* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-5b
2004 Sandblast Supplemental Site Inspection Soil Analytical Results
Volatile Organic Compounds
(Page 1 of 3)

Site ID	DP10	DP11*	DP12	DP5	DP6	DP7*	DP8	DP9	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)	Selected SLV (>3 ft bgs)	SLV Source (>3 ft bgs)
Sample ID	041118SGA10SS	041118SGA11SS	041118SGA13SS	041116SGA02SS	041117SGA04SS	041117SGA05SS	041117SGA08SS	041117SGA09SS				
Sample Date	11/17/2004	11/17/2004	11/17/2004	11/16/2004	11/17/2004	11/17/2004	11/17/2004	11/17/2004				
Sample Depth (Feet bgs)	9.0-12.0	7.5-9.5	6.5-9.5	21.0-23.0	15.0-17.0	14.0-16.5	13.0-15.0	14.0-17.0				
Medium	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Volatile Organic Compounds (µg/kg dry)												
1,1,1,2-Tetrachloroethane	0.0444 U	0.0600 U	0.0607 U	0.0907 U	0.136 U	0.130 U	0.124 U	0.0979 U	9,300	HH	9,300	HH
1,1,1-Trichloroethane (TCA)	0.0651 U	0.0881 U	**0.0969 J**	0.133 U	0.199 U	0.191 U	0.181 U	0.144 U	38,000,000	HH	38,000,000	HH
1,1,2,2-Tetrachloroethane	0.0639 U	0.0864 U	0.0875 U	0.131 U	0.195 U	0.187 U	0.178 U	0.141 U	2,800	HH	2,800	HH
1,1,2-Trichloroethane	0.0901 U	0.122 U	0.123 U	0.184 U	0.275 U	0.264 U	0.251 U	0.199 U	2,700	HH	2,700	HH
1,1-Dichloroethane	0.0573 U	0.0775 U	0.0784 U	0.117 U	0.175 U	0.168 U	0.160 U	0.126 U	5,900	HH	5,900	HH
1,1-Dichloroethene	0.442 U	0.599 U	0.606 U	0.904 U	1.35 U	1.30 U	1.23 U	0.976 U	680,000	HH	680,000	HH
1,1-Dichloropropene	0.906 U	1.23 U	1.24 U	1.85 U	2.77 U	2.66 U	2.53 U	2.00 U	8,100	HH	8,100	HH
1,2,3-Trichlorobenzene	0.108 U	0.146 U	0.148 U	0.221 U	0.330 U	0.317 U	0.301 U	0.238 U	20,000	Eco	490,000	HH
1,2,3-Trichloropropane	0.0758 U	0.103 U	0.104 U	0.155 U	0.232 U	0.222 U	0.211 U	0.167 U	95.0	HH	95.0	HH
1,2,4-Trichlorobenzene	0.110 U	0.149 U	0.151 UJ	0.225 U	0.337 U	0.323 U	0.307 U	0.243 U	20,000	Eco	99,000	HH
1,2,4-Trimethylbenzene	0.0479 U	0.0648 U	0.0655 U	0.0978 U	0.146 U	0.140 U	0.133 U	0.106 U	200,000	Eco	980,000	HH
1,2-Dibromo-3-chloropropane	0.135 U	0.183 U	0.185 U	0.276 U	0.413 U	0.396 U	0.376 U	0.298 U	69.0	HH	69.0	HH
1,2-Dibromoethane (EDB)	0.0576 U	0.0780 U	0.0789 U	0.118 U	0.176 U	0.169 U	0.161 U	0.127 U	140	HH	140	HH
1,2-Dichlorobenzene	0.0576 U	0.0780 U	0.0789 U	0.118 U	0.176 U	0.169 U	0.161 U	0.127 U	2,260	Eco	19,000,000	HH
1,2-Dichloroethane (EDC)	0.0879 U	0.119 U	0.120 U	0.180 U	0.269 U	0.258 U	0.245 U	0.194 U	590	HH	590	HH
1,2-Dichloropropane	0.0429 U	0.0580 U	0.0587 U	0.0876 U	0.131 U	0.126 U	0.120 U	0.0946 U	4,500	HH	4,500	HH
1,3,5-Trimethylbenzene	0.0432 U	0.0585 U	0.0592 U	0.0883 U	0.132 U	0.127 U	0.120 U	0.0954 U	150,000	HH	150,000	HH
1,3-Dichlorobenzene	0.0391 U	0.0530 U	0.0536 U	0.0800 U	0.120 U	0.115 U	0.109 U	0.0864 U	2,260	Eco	17,000	HH
1,3-Dichloropropane	0.0608 U	0.0823 U	0.0833 U	0.124 U	0.186 U	0.178 U	0.169 U	0.134 U	20,000,000	HH	20,000,000	HH
1,4-Dichlorobenzene	0.0552 U	0.0748 U	0.0756 UJ	0.113 U	0.169 U	0.162 U	0.154 U	0.122 UJ	17,000	HH	17,000	HH
2,2-Dichloropropane	0.0765 U	0.103 U	0.105 U	0.156 U	0.234 U	0.224 U	0.213 U	0.169 U	4,500	HH	4,500	HH
2-Butanone (MEK)	2.08 U	2.81 U	2.84 U	4.24 U	6.34 U	6.09 U	5.79 U	4.58 U	200,000,000	HH	200,000,000	HH
2-Chlorotoluene	0.0491 U	0.0665 U	0.0673 U	0.100 U	0.150 U	0.144 U	0.137 U	0.108 U	20,000,000	HH	20,000,000	HH
2-Hexanone	1.24 U	1.67 U	1.69 U	2.53 U	3.78 U	3.63 U	3.45 U	2.73 U	1,250,000	Eco	1,400,000	HH
4-Chlorotoluene	0.0939 U	0.127 U	0.129 U	0.192 U	0.287 U	0.276 U	0.262 U	0.207 U	72,000,000	HH	72,000,000	HH
4-Isopropyltoluene	0.0634 U	0.0858 U	0.0868 U	0.130 U	0.194 U	0.186 U	0.177 U	0.140 U	200,000	Eco	24,000,000	HH
4-Methyl-2-pentanone (MIBK)	0.719 U	0.973 U	0.985 U	1.47 U	2.20 U	2.11 U	2.00 U	1.59 U	1,250,000	Eco	53,000,000	HH
Acetone	2.93 U	15.4 U	7.77 U	31.2 U	8.94 U	28.1 U	35.8 U	6.46 U	1,250,000	Eco	630,000,000	HH
Benzene	1.13 U	**0.506 J**	1.55 U	2.32 U	**0.631 J**	3.33 U	3.16 U	2.50 U	1,200	HH	1,200	HH
Bromobenzene	0.0450 U	0.0610 U	0.0617 U	0.0920 U	0.138 U	0.132 U	0.126 U	0.0994 U	1,800,000	HH	1,800,000	HH
Bromochloromethane	0.0520 U	0.0703 U	0.0711 U	0.106 U	0.159 U	0.152 U	0.145 U	0.115 U	1,900	HH	1,900	HH
Bromodichloromethane	0.0701 U	0.0949 U	0.0960 U	0.143 U	0.214 U	0.206 U	0.195 U	0.155 U	1,900	HH	1,900	HH
Bromoform	0.0702 U	0.0950 U	0.0961 U	0.144 U	0.215 U	0.206 U	0.196 U	0.155 U	360,000	HH	360,000	HH
Bromomethane	0.398 UJ	0.539 UJ	0.545 UJ	0.814 UJ	1.22 UJ	1.17 UJ	1.11 UJ	0.879 UJ	17,000	HH	17,000	HH
Carbon Disulfide	0.313 U	0.424 U	0.429 U	**1.04 J**	0.957 U	0.978 U	3.16 U	0.691 U	1,000,000	Eco	3,700,000	HH
Carbon Tetrachloride	0.0955 U	0.129 U	0.131 U	0.195 U	0.292 U	**0.528 J**	0.266 U	0.211 U	630	HH	630	HH
Chlorobenzene	0.0504 U	0.0682 U	0.0690 U	0.103 U	0.154 U	0.148 U	0.140 U	0.111 U	40,000	Eco	4,300,000	HH
Chloroethane	0.650 U	0.880 U	0.890 U	1.33 U	1.99 U	1.91 U	1.81 U	1.43 U	61,000,000	HH	61,000,000	HH
Chloroform	0.0603 U	0.0817 U	0.0826 U	0.123 U	0.184 U	0.177 U	0.168 U	0.133 U	410	HH	410	HH
Chloromethane	0.397 U	0.537 U	0.544 U	0.811 U	1.21 U	1.17 U	1.11 U	0.876 U	300,000	HH	300,000	HH
cis-1,2-Dichloroethene	0.102 U	**58.5**	**4.95**	0.209 U	**0.410 J**	0.300 U	**1.54 J**	**0.628 J**	2,500,000	Eco	3,100,000	HH
cis-1,3-Dichloropropene	0.0414 U	0.0560 U	0.0567 U	0.0846 U	0.127 U	0.122 U	0.115 U	0.0914 U	8,100	HH	8,100	HH
Dibromochloromethane	0.0732 U	0.0990 U	0.100 U	0.150 U	0.224 U	0.215 U	0.204 U	0.161 U	34,000	HH	34,000	HH
Dibromomethane	0.0735 U	0.0995 U	0.101 U	0.150 U	0.225 U	0.216 U	0.205 U	0.162 U	110,000	HH	110,000	HH
Dichlorodifluoromethane	**0.0630 J**	**0.0850 J**	0.0635 U	**0.162 J**	0.142 U	**0.467 J**	0.129 U	**0.132 J**	730,000	Eco	780,000	HH
Dichloromethane (Methylene Chloride)	0.186 U	0.252 U	0.255 U	**1.14 J**	0.569 U	**13.8**	0.519 U	2.50 U	20,000	HH	20,000	HH
Ethylbenzene	1.13 U	1.54 U	0.0384 U	2.32 U	3.47 U	3.33 U	3.16 U	2.50 U	2,260	Eco	12,000	HH
Hexachlorobutadiene	0.0665 U	0.0900 U	0.0910 U	0.136 U	0.203 U	0.195 U	0.185 U	0.147 U	22,000	HH	22,000	HH
Isopropylbenzene	0.0423 U	0.0573 U	0.0579 U	0.0865 U	0.129 U	0.124 U	0.118 U	0.0934 U	2,260	Eco	24,000,000	HH
m,p-Xylenes	2.27 U	0.129 U	3.11 U	4.64 U	6.93 U	0.281 U	6.32 U	5.01 U	120,000	Eco	2,700,000	HH
Naphthalene	0.467 U	0.633 U	0.640 U	0.955 U	1.43 U	1.37 U	1.30 U	1.03 U	23,000	HH	23,000	HH
n-Butylbenzene	0.105 U	0.142 U	0.144 U	0.215 U	0.321 U	0.308 U	0.293 U	0.232 U	-	-	-	-
n-Propylbenzene	0.0532 U	0.0720 U	0.0728 U	0.109 U	0.163 U	0.156 U	0.148 U	0.117 U	2,260	Eco	21,000,000	HH
o-Xylene	1.13 U	0.0515 U	1.55 U	2.32 U	**0.184 J**	3.33 U	3.16 U	2.50 U	1,000	Eco	19,000,000	HH
sec-Butylbenzene	0.0442 U	0.0599 U	0.0606 U	0.0904 U	0.135 U	0.130 U	0.123 U	0.0976 U	2,260	Eco	-	-
Styrene	0.0272 U	0.0368 U	0.0373 U	2.32 U	0.0832 U	0.0799 U	0.0759 U	0.0601 U	300,000	Eco	51,000,000	HH
tert-Butylbenzene	0.0273 U	0.0370 U	0.0374 U	0.0559 U	0.0836 U	0.0802 U	0.0762 U	0.0603 U	2,260	Eco	-	-
Tetrachloroethene (PCE)	**0.235 J**	**54.0**	**14.4**	0.234 U	0.350 U	0.336 U	**0.437 J**	0.253 U	1,600	HH	1,600	HH
Toluene	1.13 U	1.54 U	1.55 U	2.32 U	**5.20**	3.33 U	3.16 U	2.50 U	200,000	Eco	24,000,000	HH
trans-1,2-Dichloroethene	0.284 U	0.384 U	0.388 U	0.580 U	0.867 U	0.832 U	0.790 U	0.626 U	200,000	HH	200,000	HH
trans-1,3-Dichloropropene	0.0514 U	0.0696 U	0.0704 U	0.105 U	0.157 U	0.151 U	0.143 U	0.113 U	8,100	HH	8,100	HH
Trichloroethene (TCE)	**0.374 J**	**24.5**	**4.06**	**0.0809 J**	**0.298 J**	**0.150 J**	**0.108 J**	**0.230 J**	130	HH	130	HH
Trichlorofluoromethane	0.397 U	0.537 U	0.544 U	0.811 U	1.21 U	1.17 U	1.11 U	0.876 U	730,000	Eco	63,000,000	HH
Vinyl Acetate	1.15 U	1.55 U	1.57 U	2.34 U	3.50 U	3.36 U	3.19 U	2.53 U	4,100,000	HH	4,100,000	HH
Vinyl Chloride	0.211 U	0.286 U	0.289 U	0.431 U	0.645 U	0.619 U	0.588 U	0.466 U	2,200	HH	2,200	HH

Notes:
µg/kg = microgram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-5b
2004 Sandblast Supplemental Site Inspection Soil Analytical Results
Volatile Organic Compounds
(Page 2 of 3)

Site ID	HA1*	HA10	HA11	HA11	HA12	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)	Selected SLV (>3 ft bgs)	SLV Source (>3 ft bgs)
Sample ID	041122SGA14SS	041123SGA29SS	041123SGA30SS	041123SGA31SS	041123SGA33SS				
Sample Date	11/22/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004				
Sample Depth (Feet bgs)	0.5	0.5	1.0	3.0	4.0				
Medium	Soil	Soil	Soil	Soil	Soil				
Volatile Organic Compounds (µg/kg dry)									
1,1,1,2-Tetrachloroethane	0.0575 U	0.0536 U	0.0656 U	0.0934 U	0.0473 U	9,300	HH	9,300	HH
1,1,1-Trichloroethane (TCA)	0.0844 U	0.0787 U	0.0963 U	0.137 U	0.0694 U	38,000,000	HH	38,000,000	HH
1,1,2,2-Tetrachloroethane	0.0828 U	0.0771 U	0.0944 U	0.135 U	0.0680 U	2,800	HH	2,800	HH
1,1,2-Trichloroethane	0.117 U	0.109 U	0.133 U	0.190 U	0.0960 U	2,700	HH	2,700	HH
1,1-Dichloroethane	0.0743 U	0.0692 U	0.0847 U	0.121 U	0.0610 U	5,900	HH	5,900	HH
1,1-Dichloroethene	0.574 U	0.534 U	0.654 U	0.932 U	0.471 U	680,000	HH	680,000	HH
1,1-Dichloropropene	1.18 U	1.09 U	1.34 U	1.91 U	0.966 U	8,100	HH	8,100	HH
1,2,3-Trichlorobenzene	0.140 U	0.130 U	0.160 U	0.227 U	0.115 U	20,000	Eco	490,000	HH
1,2,3-Trichloropropane	0.0983 U	0.0915 U	0.112 U	0.160 U	0.0807 U	95.0	HH	95.0	HH
1,2,4-Trichlorobenzene	0.143 U	0.133 U	0.163 U	0.232 U	0.117 U	20,000	Eco	99,000	HH
1,2,4-Trimethylbenzene	**0.523 J**	0.0578 U	**0.252 J**	0.101 U	0.0510 U	200,000	Eco	980,000	HH
1,2-Dibromo-3-chloropropane	0.175 UJ	0.163 UJ	0.200 UJ	0.284 UJ	0.144 UJ	69.0	HH	69.0	HH
1,2-Dibromoethane (EDB)	0.0747 U	0.0696 U	0.0852 U	0.121 U	0.0614 U	140	HH	140	HH
1,2-Dichlorobenzene	0.0747 U	0.0696 U	0.0852 U	0.121 U	0.0614 U	2,260	Eco	19,000,000	HH
1,2-Dichloroethane (EDC)	0.114 U	0.106 U	0.130 U	0.185 U	0.0937 U	590	HH	590	HH
1,2-Dichloropropane	0.0556 U	0.0518 U	0.0634 U	0.0903 U	0.0457 U	4,500	HH	4,500	HH
1,3,5-Trimethylbenzene	**0.0929 J**	0.0522 U	0.0639 U	0.0910 U	0.0460 U	150,000	HH	150,000	HH
1,3-Dichlorobenzene	0.0507 U	0.0473 U	0.0579 U	0.0824 U	0.0417 U	2,260	Eco	17,000	HH
1,3-Dichloropropane	0.0788 U	0.0734 U	0.0899 U	0.128 U	0.0648 U	20,000,000	HH	20,000,000	HH
1,4-Dichlorobenzene	0.0716 U	0.0667 U	0.0817 U	0.116 U	0.0589 U	17,000	HH	17,000	HH
2,2-Dichloropropane	0.0991 U	0.0924 U	0.113 U	0.161 U	0.0815 U	4,500	HH	4,500	HH
2-Butanone (MEK)	17.8 U	10.7 U	19.3 U	29.2 U	10.6 U	200,000,000	HH	200,000,000	HH
2-Chlorotoluene	0.0637 U	0.0593 U	0.0726 U	0.103 U	0.0523 U	20,000,000	HH	20,000,000	HH
2-Hexanone	1.60 U	1.49 U	1.83 U	2.60 U	1.32 U	1,250,000	Eco	1,400,000	HH
4-Chlorotoluene	0.122 U	0.113 U	0.139 U	0.198 U	0.100 U	72,000,000	HH	72,000,000	HH
4-Isopropyltoluene	**0.0833 J**	0.0766 U	**0.152 J**	**1.11 J**	0.0676 U	200,000	Eco	24,000,000	HH
4-Methyl-2-pentanone (MIBK)	0.933 U	0.869 U	1.06 U	1.52 U	0.766 U	1,250,000	Eco	53,000,000	HH
Acetone	95.4 U	144 U	329 U	292 U	76.6 U	1,250,000	Eco	630,000,000	HH
Benzene	1.47 U	1.37 U	**0.474 J**	**0.514 J**	**0.396 J**	1,200	HH	1,200	HH
Bromobenzene	0.0584 U	0.0544 U	0.0666 U	0.0949 U	0.0480 U	1,800,000	HH	1,800,000	HH
Bromochloromethane	0.0674 U	0.0628 U	0.0768 U	0.109 U	0.0554 U	1,900	HH	1,900	HH
Bromodichloromethane	0.0909 U	0.0847 U	0.104 U	0.148 U	0.0747 U	1,900	HH	1,900	HH
Bromoform	0.0911 UJ	0.0848 UJ	0.104 UJ	0.148 UJ	0.0748 UJ	360,000	HH	360,000	HH
Bromomethane	0.516 U	0.481 U	0.589 U	0.839 U	1.21 U	17,000	HH	17,000	HH
Carbon Disulfide	0.406 U	0.378 U	**0.549 J**	0.660 U	0.334 U	1,000,000	Eco	3,700,000	HH
Carbon Tetrachloride	0.124 U	0.115 U	0.141 U	0.201 U	0.102 U	630	HH	630	HH
Chlorobenzene	0.0653 U	0.0608 U	0.0745 U	0.106 U	0.0537 U	40,000	Eco	4,300,000	HH
Chloroethane	0.843 U	0.785 U	0.961 U	1.37 U	0.693 U	61,000,000	HH	61,000,000	HH
Chloroform	0.0783 U	0.0729 U	0.0892 U	0.127 U	0.0643 U	410	HH	410	HH
Chloromethane	0.515 U	0.480 U	0.587 U	0.836 U	0.423 U	300,000	HH	300,000	HH
cis-1,2-Dichloroethene	0.132 U	0.123 U	0.151 U	0.215 U	0.109 U	2,500,000	Eco	3,100,000	HH
cis-1,3-Dichloropropene	0.0537 U	0.0500 U	0.0612 U	0.0872 U	0.0441 U	8,100	HH	8,100	HH
Dibromochloromethane	0.0949 U	0.0884 U	0.108 U	0.154 U	0.0780 U	34,000	HH	34,000	HH
Dibromomethane	0.0953 U	0.0888 U	0.109 U	0.155 U	0.0783 U	110,000	HH	110,000	HH
Dichlorodifluoromethane	0.0602 U	0.0560 U	0.0686 U	0.0977 U	0.0494 U	730,000	Eco	780,000	HH
Dichloromethane (Methylene Chloride)	1.47 U	4.35 U	5.38 U	9.54 U	2.14 U	20,000	HH	20,000	HH
Ethylbenzene	1.47 U	1.37 U	1.68 U	2.39 U	1.21 U	2,260	Eco	12,000	HH
Hexachlorobutadiene	0.0862 U	0.0803 U	0.0983 U	0.140 U	0.0708 U	22,000	HH	22,000	HH
Isopropylbenzene	0.0549 U	0.0511 U	0.0626 U	0.0891 U	0.0451 U	2,260	Eco	24,000,000	HH
m,p-Xylenes	2.94 U	2.74 U	3.35 U	4.78 U	2.42 U	120,000	Eco	2,700,000	HH
Naphthalene	0.606 U	0.565 U	0.691 U	0.985 U	0.498 U	23,000	HH	23,000	HH
n-Butylbenzene	0.136 U	0.127 U	0.155 U	0.221 U	0.112 U	-	-	-	-
n-Propylbenzene	0.0690 U	0.0643 U	0.0787 U	0.112 U	0.0567 U	2,260	Eco	21,000,000	HH
o-Xylene	1.47 U	0.0411 U	1.68 U	2.39 U	1.21 U	1,000	Eco	19,000,000	HH
sec-Butylbenzene	0.0574 U	0.0534 U	0.0654 U	0.0932 U	0.0471 U	2,260	Eco	-	-
Styrene	1.47 U	1.37 U	0.0403 U	2.39 U	1.21 U	300,000	Eco	51,000,000	HH
tert-Butylbenzene	0.0355 U	0.0330 U	0.0404 U	0.0576 U	0.0291 U	2,260	Eco	-	-
Tetrachloroethene (PCE)	**0.162 J**	0.138 U	0.169 U	0.241 U	**0.950 J**	1,600	HH	1,600	HH
Toluene	1.47 U	1.37 U	**0.786 J**	**1.33 J**	1.21 U	200,000	Eco	24,000,000	HH
trans-1,2-Dichloroethene	0.368 U	0.343 U	0.419 U	0.597 U	0.302 U	200,000	HH	200,000	HH
trans-1,3-Dichloropropene	0.0666 U	0.0621 U	0.0760 U	0.108 U	0.0547 U	8,100	HH	8,100	HH
Trichloroethene (TCE)	**0.171 J**	0.0440 U	0.0538 U	0.0767 U	**0.0450 J**	130	HH	130	HH
Trichlorofluoromethane	0.515 U	0.480 U	0.587 U	0.836 U	0.423 U	730,000	Eco	63,000,000	HH
Vinyl Acetate	1.49 U	1.38 U	1.69 U	2.41 U	1.22 U	4,100,000	HH	4,100,000	HH
Vinyl Chloride	0.274 U	0.255 U	0.312 U	0.444 U	0.225 U	2,200	HH	2,200	HH

Notes:

µg/kg = microgram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
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bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-5b
2004 Sandblast Supplemental Site Inspection Soil Analytical Results
Volatile Organic Compounds
(Page 3 of 3)

Site ID	HA2	HA3	HA4	HA5	HA9	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)	Selected SLV (>3 ft bgs)	SLV Source (>3 ft bgs)
Sample ID	041122SGA16SS	041122SGA17SS	041122SGA21SS	041122SGA23SS	041123SGA28SS				
Sample Date	11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/23/2004				
Sample Depth (Feet bgs)	0.5	0.5	3.0	3.0	0.5				
Medium	Soil	Soil	Soil	Soil	Soil				
Volatile Organic Compounds (µg/kg dry)									
1,1,1,2-Tetrachloroethane	0.0443 U	0.0610 U	0.0553 U	0.0957 U	0.0553 U	9,300	HH	9,300	HH
1,1,1-Trichloroethane (TCA)	0.0650 U	0.0896 U	0.0812 U	0.140 U	0.0812 U	38,000,000	HH	38,000,000	HH
1,1,2,2-Tetrachloroethane	0.0638 U	0.0879 U	0.0797 U	0.138 U	0.0796 U	2,800	HH	2,800	HH
1,1,2-Trichloroethane	0.0899 U	0.124 U	0.112 U	0.194 U	0.112 U	2,700	HH	2,700	HH
1,1-Dichloroethane	0.0572 U	0.0788 U	0.0715 U	0.124 U	0.0714 U	5,900	HH	5,900	HH
1,1-Dichloroethene	0.442 U	0.609 U	0.552 U	0.954 U	0.551 U	680,000	HH	680,000	HH
1,1-Dichloropropene	0.905 U	1.25 U	1.13 U	1.95 U	1.13 U	8,100	HH	8,100	HH
1,2,3-Trichlorobenzene	0.108 U	0.149 U	0.135 U	0.233 U	0.135 U	20,000	Eco	490,000	HH
1,2,3-Trichloropropane	0.0756 U	0.104 U	0.0946 U	0.163 U	0.0945 U	95.0	HH	95.0	HH
1,2,4-Trichlorobenzene	0.110 U	0.152 U	0.137 U	0.238 U	0.137 U	20,000	Eco	99,000	HH
1,2,4-Trimethylbenzene	0.0478 U	0.0658 U	**14,300**	**3.96**	**0.215 J**	200,000	Eco	980,000	HH
1,2-Dibromo-3-chloropropane	0.135 UJ	0.186 UJ	0.168 UJ	0.291 UJ	0.168 UJ	69.0	HH	69.0	HH
1,2-Dibromoethane (EDB)	0.0575 U	0.0793 U	0.0719 U	0.124 U	0.0718 U	140	HH	140	HH
1,2-Dichlorobenzene	0.0575 U	0.0793 U	0.0719 U	0.124 U	0.0718 U	2,260	Eco	19,000,000	HH
1,2-Dichloroethane (EDC)	0.0878 U	0.121 U	0.110 U	0.190 U	0.110 U	590	HH	590	HH
1,2-Dichloropropane	0.0428 U	0.0590 U	0.0535 U	0.0925 U	0.0535 U	4,500	HH	4,500	HH
1,3,5-Trimethylbenzene	**0.0435 J**	**0.125 J**	**219**	**1.83 J**	0.0539 U	150,000	HH	150,000	HH
1,3-Dichlorobenzene	0.0391 U	0.0538 U	0.0488 U	0.0844 U	0.0488 U	2,260	Eco	17,000	HH
1,3-Dichloropropane	0.0607 U	0.0836 U	0.0759 U	0.131 U	0.0758 U	20,000,000	HH	20,000,000	HH
1,4-Dichlorobenzene	0.0551 U	0.0760 U	0.0689 U	0.119 U	0.0689 U	17,000	HH	17,000	HH
2,2-Dichloropropane	0.0763 U	0.105 U	0.0954 U	0.165 U	0.0953 U	4,500	HH	4,500	HH
2-Butanone (MEK)	14.4 U	19.8 U	2.59 U	4.48 U	8.89 U	200,000,000	HH	200,000,000	HH
2-Chlorotoluene	0.0490 U	0.0676 U	0.0613 U	0.106 U	0.0612 U	20,000,000	HH	20,000,000	HH
2-Hexanone	1.23 U	1.70 U	1.54 U	2.67 U	1.54 U	1,250,000	Eco	1,400,000	HH
4-Chlorotoluene	0.0938 U	0.129 U	0.117 U	0.203 U	0.117 U	72,000,000	HH	72,000,000	HH
4-Isopropyltoluene	**2.63**	**0.196 J**	**161**	**0.912 J**	**0.253 J**	200,000	Eco	24,000,000	HH
4-Methyl-2-pentanone (MIBK)	0.718 U	0.989 U	0.897 U	1.55 U	0.896 U	1,250,000	Eco	53,000,000	HH
Acetone	173 U	389 U	146 U	65.5 U	89.1 U	1,250,000	Eco	630,000,000	HH
Benzene	1.13 U	1.56 U	1.42 U	**0.600 J**	1.41 U	1,200	HH	1,200	HH
Bromobenzene	0.0450 U	0.0619 U	0.0562 U	0.0971 U	0.0561 U	1,800,000	HH	1,800,000	HH
Bromochloromethane	0.0519 U	0.0715 U	0.0648 U	0.112 U	0.0648 U	1,900	HH	1,900	HH
Bromodichloromethane	0.0700 U	0.0964 U	0.0875 U	0.151 U	0.0874 U	1,900	HH	1,900	HH
Bromoform	0.0701 UJ	0.0966 UJ	0.0876 UJ	0.151 UJ	0.0875 UJ	360,000	HH	360,000	HH
Bromomethane	0.397 U	0.548 U	1.42 U	0.859 U	0.496 U	17,000	HH	17,000	HH
Carbon Disulfide	0.313 U	0.431 U	1.42 U	0.675 U	0.390 U	1,000,000	Eco	3,700,000	HH
Carbon Tetrachloride	0.0953 U	0.131 U	0.119 U	0.206 U	0.119 U	630	HH	630	HH
Chlorobenzene	0.0503 U	0.0693 U	0.0628 U	0.109 U	0.0628 U	40,000	Eco	4,300,000	HH
Chloroethane	0.649 U	0.894 U	0.811 U	1.40 U	0.810 U	61,000,000	HH	61,000,000	HH
Chloroform	0.0602 U	0.0830 U	0.0753 U	0.130 U	0.0752 U	410	HH	410	HH
Chloromethane	0.396 U	0.546 U	0.495 U	0.856 U	0.495 U	300,000	HH	300,000	HH
cis-1,2-Dichloroethene	0.102 U	0.140 U	**120**	0.220 U	0.127 U	2,500,000	Eco	3,100,000	HH
cis-1,3-Dichloropropene	0.0413 U	0.0570 U	0.0517 U	0.0893 U	0.0516 U	8,100	HH	8,100	HH
Dibromochloromethane	0.0730 U	0.101 U	0.0913 U	0.158 U	0.0912 U	34,000	HH	34,000	HH
Dibromomethane	0.0734 U	0.101 U	0.0917 U	0.159 U	0.0916 U	110,000	HH	110,000	HH
Dichlorodifluoromethane	0.0463 U	0.0638 U	0.0579 U	0.100 U	0.0578 U	730,000	Eco	780,000	HH
Dichloromethane (Methylene Chloride)	2.27 U	2.46 U	6.37 U	5.63 U	2.43 U	20,000	HH	20,000	HH
Ethylbenzene	1.13 U	1.56 U	**37.4**	2.45 U	1.41 U	2,260	Eco	12,000	HH
Hexachlorobutadiene	0.0664 U	0.0914 U	0.0829 U	0.143 U	0.0829 U	22,000	HH	22,000	HH
Isopropylbenzene	0.0422 U	0.0582 U	**47.3**	0.0913 U	0.0527 U	2,260	Eco	24,000,000	HH
m,p-Xylenes	2.26 U	3.12 U	**40.0**	4.89 U	2.83 U	120,000	Eco	2,700,000	HH
Naphthalene	0.467 U	0.643 U	**19.5**	**2.04 J**	0.583 U	23,000	HH	23,000	HH
n-Butylbenzene	0.105 U	0.144 U	0.131 U	0.227 U	0.131 U	-	-	-	-
n-Propylbenzene	0.0531 U	0.0732 U	**122**	**0.409 J**	0.0663 U	2,260	Eco	21,000,000	HH
o-Xylene	1.13 U	1.56 U	**57.1**	**0.197 J**	1.41 U	1,000	Eco	19,000,000	HH
sec-Butylbenzene	0.0442 U	0.0609 U	**90.2**	**0.435 J**	0.0551 U	2,260	Eco	-	-
Styrene	1.13 U	1.56 U	0.0340 U	2.45 U	1.41 U	300,000	Eco	51,000,000	HH
tert-Butylbenzene	0.0273 U	0.0376 U	0.0341 U	0.0590 U	0.0341 U	2,260	Eco	-	-
Tetrachloroethene (PCE)	0.114 U	0.158 U	**9,410**	**5.84**	0.143 U	1,600	HH	1,600	HH
Toluene	1.13 U	1.56 U	**4.78**	2.45 U	1.41 U	200,000	Eco	24,000,000	HH
trans-1,2-Dichloroethene	0.283 U	0.390 U	**2.28**	0.612 U	0.354 U	200,000	HH	200,000	HH
trans-1,3-Dichloropropene	0.0513 U	0.0707 U	0.0641 U	0.111 U	0.0641 U	8,100	HH	8,100	HH
Trichloroethene (TCE)	**0.0667 J**	**0.0655 J**	**6,080**	**1.35 J**	**0.0614 J**	130	HH	130	HH
Trichlorofluoromethane	0.396 U	0.546 U	0.495 U	0.856 U	0.495 U	730,000	Eco	63,000,000	HH
Vinyl Acetate	1.14 U	1.58 U	1.43 U	2.47 U	1.43 U	4,100,000	HH	4,100,000	HH
Vinyl Chloride	0.211 U	0.290 U	0.263 U	0.455 U	0.263 U	2,200	HH	2,200	HH

Notes:

µg/kg = microgram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-5c
2004 Sandblast Supplemental Site Inspection Soil Analytical Results
Semivolatile Organic Compounds
(Page 1 of 3)

Site ID	DP10	DP11*	DP12	DP5	DP6	DP7*	DP8	DP9	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)	Selected SLV (>3 ft bgs)	SLV Source (>3 ft bgs)
Sample ID	041118SGA10SS	041118SGA11SS	041118SGA13SS	041116SGA02SS	041117SGA04SS	041117SGA05SS	041117SGA08SS	041117SGA09SS				
Sample Date	11/17/2004	11/17/2004	11/17/2004	11/16/2004	11/17/2004	11/17/2004	11/17/2004	11/17/2004				
Sample Depth (Feet bgs)	9.0-12.0	7.5-9.5	6.5-9.5	21.0-23.0	15.0-17.0	14.0-16.5	13.0-15.0	14.0-17.0				
Medium	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Semivolatile Organic Compounds (µg/kg dry)												
1,2,4-Trichlorobenzene	1.04 U	1.02 U	1.03 UJ	0.998 U	1.00 U	0.981 U	0.935 U	1.01 U	20,000	Eco	99,000	HH
1,2-Dichlorobenzene	0.836 U	0.815 U	0.824 U	0.798 U	0.802 U	0.785 U	0.748 U	0.811 U	2,260	Eco	19,000,000	HH
1,3-Dichlorobenzene	1.05 U	1.02 U	1.03 U	1.00 U	1.01 U	0.985 U	0.939 U	1.02 U	2,260	Eco	17,000	HH
1,4-Dichlorobenzene	1.03 U	1.01 U	1.02 UJ	0.988 U	0.993 U	0.972 U	0.927 U	1.00 UJ	17,000	HH	17,000	HH
2,4,5-Trichlorophenol	0.955 U	0.931 U	0.941 U	0.912 U	0.917 U	0.897 U	0.855 U	0.927 U	4,000	Eco	62,000,000	HH
2,4,6-Trichlorophenol	0.973 U	0.949 U	0.959 U	0.930 U	0.934 U	0.914 U	0.872 U	0.945 U	10,000	Eco	200,000	HH
2,4-Dichlorophenol	1.09 U	1.06 U	1.08 U	1.04 U	1.05 U	1.03 U	0.977 U	1.06 U	20,000	Eco	1,800,000	HH
2,4-Dimethylphenol	0.941 UJ	0.918 UJ	0.928 UJ	0.899 UJ	0.904 UJ	0.884 UJ	0.843 UJ	0.914 UJ	20,000	Eco	12,000,000	HH
2,4-Dinitrophenol	8.60 U	8.39 U	8.48 U	8.22 U	8.26 U	8.08 U	7.70 U	8.35 U	20,000	Eco	1,200,000	HH
2,4-Dinitrotoluene	2.09 U	2.04 U	2.06 UJ	2.00 U	2.01 U	1.97 U	1.87 U	2.03 U	5,500	HH	5,500	HH
2,6-Dinitrotoluene	1.32 U	1.28 U	1.30 U	1.26 U	1.26 U	1.24 U	1.18 U	1.28 U	240,000	HH	240,000	HH
2-Chloronaphthalene	0.831 U	0.810 U	0.819 U	0.793 U	0.797 U	0.780 U	0.744 U	0.806 U	82,000,000	HH	82,000,000	HH
2-Chlorophenol	0.828 U	0.808 U	0.816 U	0.791 U	0.795 U	0.778 U	0.742 U	0.804 U	60,000	Eco	5,100,000	HH
2-Methylphenol	1.16 U	1.13 U	1.15 U	1.11 U	1.12 U	1.09 U	1.04 U	1.13 U	50,000	Eco	31,000,000	HH
2-Nitroaniline	0.668 U	0.652 U	0.659 U	0.638 U	0.641 U	0.628 U	0.598 U	0.649 U	6,000,000	HH	6,000,000	HH
2-Nitrophenol	1.40 U	1.37 U	1.38 U	1.34 U	1.35 U	1.32 U	1.26 U	1.36 U	180,000,000	HH	180,000,000	HH
3,3'-Dichlorobenzidine	5.34 U	5.21 U	5.26 U	5.10 U	5.13 U	5.02 U	4.78 U	5.18 U	4,800	HH	4,800	HH
3-Nitroaniline	3.61 U	3.52 U	3.55 U	3.44 U	3.46 U	3.39 U	3.23 U	3.50 U	70,000	Eco	6,000,000	HH
4,6-Dinitro-2-methylphenol	2.22 U	2.16 U	2.18 U	2.12 U	2.13 U	2.08 U	1.98 U	2.15 U	49,000	HH	49,000	HH
4-Bromophenyl Phenyl Ether	2.26 U	2.21 U	2.23 U	2.16 U	2.17 U	2.13 U	2.03 U	2.20 U	-	-	-	-
4-Chloro-3-methylphenol	1.10 U	1.07 U	1.08 U	1.05 U	1.05 U	1.03 U	0.984 U	1.07 U	62,000,000	HH	62,000,000	HH
4-Chloroaniline	1.14 U	1.12 U	1.13 U	1.09 U	1.10 U	1.08 U	1.02 U	1.11 U	8,600	HH	8,600	HH
4-Chlorophenyl Phenyl Ether	2.65 U	2.58 U	2.61 U	2.53 U	2.54 U	2.49 U	2.37 U	2.57 U	-	-	-	-
4-Nitroaniline	5.05 UJ	4.92 UJ	4.97 UJ	4.82 UJ	4.84 UJ	4.74 UJ	4.52 UJ	4.90 UJ	40,000	Eco	86,000	HH
4-Nitrophenol	10.1 U	9.83 U	9.93 U	9.63 U	9.67 U	9.47 U	9.02 U	9.78 U	7,000	Eco	180,000,000	HH
Aniline	2.3 U	2.2 U	2.2 U	2.2 U	2.2 U	2.1 U	2.0 U	2.2 U	200,000	Eco	300,000	HH
Benzidine	3.47 U	3.38 U	3.42 U	3.31 U	3.33 U	3.26 U	3.11 U	3.37 U	55,000	HH	55,000	HH
Benzoic Acid	19.7 U	19.2 U	19.4 U	18.8 U	18.9 U	18.5 U	17.6 U	19.1 U	200,000	Eco	2,500,000,000	HH
Benzyl Alcohol	2.45 U	2.39 U	2.41 U	2.34 U	2.35 U	2.30 U	2.19 U	2.38 U	2,260	Eco	62,000,000	HH
Bis(2-chloroethoxy)methane	2.36 U	2.30 U	2.33 U	2.26 U	2.27 U	2.22 U	2.12 U	2.29 U	730,000	Eco	1,800,000	HH
Bis(2-chloroethyl) Ether	1.93 U	1.88 U	1.90 U	1.85 U	1.85 U	1.81 U	1.73 U	1.88 U	1,000	HH	1,000	HH
Bis(2-chloroisopropyl) Ether	9.83 U	9.59 U	9.69 U	9.39 U	9.44 U	9.24 U	8.80 U	9.54 U	1,000	HH	1,000	HH
Bis(2-ethylhexyl) Phthalate	**32.1**	**75.0 J**	**6.67 J**	**11.2 J**	**10.9 J**	**147**	**266**	**44.1**	4,500	Eco	150,000	HH
Butyl Benzyl Phthalate	2.63 U	2.57 U	2.60 U	2.52 U	2.53 U	2.47 U	2.36 U	2.56 U	450	Eco	910,000	HH
Carbazole	2.45 U	2.39 U	2.41 U	2.34 U	2.35 U	2.30 U	2.19 U	2.38 U	2,260	Eco	1,000,000	HH
Dibenzofuran	0.569 U	0.555 U	0.560 U	0.543 U	0.546 U	0.534 U	0.509 U	0.552 U	2.00	Eco	1,000,000	HH
Diethyl Phthalate	4.44 U	4.33 U	4.38 U	4.24 U	4.26 U	4.17 U	3.98 U	4.31 U	100,000	Eco	490,000,000	HH
Dimethyl Phthalate	2.41 U	2.35 U	2.38 U	2.30 U	2.32 U	2.27 U	2.16 U	2.34 U	150,000	HH	150,000	HH
Di-n-butyl Phthalate	12.3 U	2.18 U	2.21 U	2.14 U	11.8 U	11.6 U	11.0 U	11.9 U	450	Eco	62,000,000	HH
Di-n-octyl Phthalate	2.26 U	2.21 U	2.23 U	2.16 U	**7.06 J**	**4.40 J**	2.03 U	2.20 U	450	Eco	150,000	HH
Hexachlorobenzene	0.651 U	0.635 U	0.642 U	0.622 U	0.625 U	0.612 U	0.583 U	0.632 U	1,800	HH	1,800	HH
Hexachlorobutadiene	0.900 U	0.877 U	0.887 U	0.859 U	0.864 U	0.845 U	0.805 U	0.873 U	22,000	HH	22,000	HH
Hexachlorocyclopentadiene	0.976 U	0.952 U	0.962 U	0.932 U	0.937 U	0.917 U	0.874 U	0.947 U	10,000	Eco	3,700,000	HH
Hexachloroethane	2.08 U	2.03 U	2.05 U	1.99 U	2.00 U	1.95 U	1.86 U	2.02 U	150,000	HH	150,000	HH
Isophorone	0.620 U	0.605 U	0.611 U	0.592 U	0.595 U	0.583 U	0.555 U	0.602 U	1,800,000	HH	1,800,000	HH
Nitrobenzene	3.70 U	3.61 U	3.65 U	3.54 U	3.56 U	3.48 U	3.32 U	3.60 U	8,000	Eco	24,000	HH
N-Nitrosodimethylamine	3.75 U	3.66 U	3.70 U	3.58 U	3.60 U	3.53 U	3.36 U	3.64 U	34.0	HH	34.0	HH
N-Nitrosodi-n-propylamine	1.65 U	1.61 U	1.63 U	1.58 U	1.58 U	1.55 U	1.48 U	1.60 U	250	HH	250	HH
N-Nitrosodiphenylamine	0.704 U	0.687 U	0.694 U	0.672 U	0.676 U	0.661 U	0.630 U	0.683 U	20,000	Eco	350,000	HH
p-cresol (4-Methylphenol)	1.45 U	1.42 U	1.43 U	1.39 U	1.39 U	1.36 U	1.30 U	1.41 U	-	-	-	-
Pentachlorophenol	2.39 UJ	2.33 UJ	2.35 UJ	2.28 UJ	2.29 UJ	2.24 UJ	2.14 UJ	2.32 UJ	2,100	Eco	13,000	HH
Phenol	0.890 U	0.868 U	0.877 U	0.850 U	0.854 U	0.836 U	0.797 U	0.864 U	30,000	Eco	180,000,000	HH
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)												
2-Methylnaphthalene	0.640 U	0.624 U	0.631 U	0.611 U	**7.98 J**	0.601 U	0.573 U	0.621 U	4,100,000	HH	4,100,000	HH
Acenaphthene	0.631 U	0.616 U	0.622 U	0.603 U	0.606 U	0.593 U	0.565 U	0.613 U	19,000,000	HH	19,000,000	HH
Acenaphthylene	0.725 U	0.707 U	0.714 U	0.692 U	0.696 U	0.681 U	0.649 U	0.704 U	23,000	HH	23,000	HH
Anthracene	0.468 U	0.456 U	0.461 U	0.447 U	0.449 U	0.439 U	0.419 U	0.454 U	93,000,000	HH	93,000,000	HH
Fluorene	0.795 U	0.775 U	0.784 U	0.759 U	0.763 U	0.747 U	0.712 U	0.772 U	12,000,000	HH	12,000,000	HH
Naphthalene	1.09 U	1.06 U	1.07 U	1.04 U	**4.24**	1.02 U	0.976 U	1.06 U	23,000	HH	23,000	HH
Phenanthrene	0.731 U	0.713 U	0.720 U	0.698 U	0.702 U	0.687 U	**1.82 J**	0.710 U	93,000,000	HH	93,000,000	HH
Total LPAHs (KM, capped; NDs at MDL)	NC	NC	NC	NC	NC	NC	NC	NC	29,000	Eco	-	-
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)												
Benzo(a)anthracene	1.24 U	1.21 U	1.23 U	1.19 U	1.19 U	1.17 U	1.11 U	1.21 U	2,700	HH	2,700	HH
Benzo(a)pyrene	0.779 U	0.760 U	0.768 U	0.744 U	0.748 U	**1.32 J**	0.697 U	0.756 U	270	HH	270	HH
Benzo(g,h,i)perylene	0.592 U	0.577 U	0.583 U	0.565 U	0.568 U	0.556 U	0.530 U	0.575 U	27,000	HH	27,000	HH
Benzofluoranthenes, Total	1.11 U	1.09 U	1.10 U	1.06 U	1.07 U	**2.72 J**	**2.97 J**	1.08 U	2,700	HH	2,700	HH
Chrysene	0.880 U	0.858 U	0.867 U	0.840 U	0.845 U	0.827 U	0.788 U	0.854 U	270,000	HH	270,000	HH
Dibenz(a,h)anthracene	0.764 U	0.745 U	0.753 U	0.730 U	0.734 U	0.718 U	0.684 U	0.742 U	270	HH	270	HH
Fluoranthene	1.24 U	1.21 U	1.23 U	1.19 U	1.19 U	**3.53**	**3.90**	1.21 U	8,900,000	HH	8,900,000	HH
Indeno(1,2,3-cd)pyrene	0.561 U	0.547 U	0.553 U	0.536 U	0.539 U	0.527 U	**0.511 J**	0.545 U	2,700	HH	2,700	HH
Pyrene	0.418 U	0.408 U	0.412 U	0.400 U	**3.71**	**3.31**	**2.60**	0.406 U	6,700,000	HH	6,700,000	HH
Total HPAHs (KM, capped; NDs at MDL)	NC	NC	NC	NC	NC	NC	NC	NC	1,100	Eco	-	-

Notes:

µg/kg = microgram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-5c
2004 Sandblast Supplemental Site Inspection Soil Analytical Results
Semivolatile Organic Compounds
(Page 2 of 3)

Site ID	HA1*	HA10	HA11	HA11	HA12	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)	Selected SLV (>3 ft bgs)	SLV Source (>3 ft bgs)
Sample ID	041122SGA14SS	041123SGA29SS	041123SGA30SS	041123SGA31SS	041123SGA33SS				
Sample Date	11/22/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004				
Sample Depth (Feet bgs)	0.5	0.5	1.0	3.0	4.0				
Medium	Soil	Soil	Soil	Soil	Soil				
Semivolatile Organic Compounds (µg/kg dry)									
1,2,4-Trichlorobenzene	0.987 U	0.880 U	1.05 U	1.07 U	1.01 U	20,000	Eco	99,000	HH
1,2-Dichlorobenzene	0.790 U	0.703 U	0.837 U	0.857 U	0.808 U	2,260	Eco	19,000,000	HH
1,3-Dichlorobenzene	0.991 U	0.883 U	1.05 U	1.08 U	1.01 U	2,260	Eco	17,000	HH
1,4-Dichlorobenzene	0.978 U	0.871 U	1.04 U	1.06 U	1.00 U	17,000	HH	17,000	HH
2,4,5-Trichlorophenol	0.902 U	0.804 U	0.956 U	0.980 U	0.923 U	4,000	Eco	62,000,000	HH
2,4,6-Trichlorophenol	0.920 U	0.819 U	0.975 U	0.999 U	0.941 U	10,000	Eco	200,000	HH
2,4-Dichlorophenol	1.03 U	0.919 U	1.09 U	1.12 U	1.06 U	20,000	Eco	1,800,000	HH
2,4-Dimethylphenol	0.890 UJ	0.793 UJ	0.943 UJ	0.966 UJ	0.910 UJ	20,000	Eco	12,000,000	HH
2,4-Dinitrophenol	8.13 U	7.24 U	8.61 U	8.82 U	8.32 U	20,000	Eco	1,200,000	HH
2,4-Dinitrotoluene	1.98 U	1.76 U	2.09 U	2.15 U	2.02 U	5,500	HH	5,500	HH
2,6-Dinitrotoluene	1.24 U	1.11 U	1.32 U	1.35 U	1.27 U	240,000	HH	240,000	HH
2-Chloronaphthalene	0.785 U	0.699 U	0.832 U	0.852 U	0.803 U	82,000,000	HH	82,000,000	HH
2-Chlorophenol	0.783 U	0.697 U	0.829 U	0.850 U	0.801 U	60,000	Eco	5,100,000	HH
2-Methylphenol	1.10 U	0.978 U	1.16 U	1.19 U	1.12 U	50,000	Eco	31,000,000	HH
2-Nitroaniline	0.631 U	0.563 U	0.669 U	0.685 U	0.646 U	6,000,000	HH	6,000,000	HH
2-Nitrophenol	1.33 U	1.18 U	1.40 U	1.44 U	1.36 U	180,000,000	HH	180,000,000	HH
3,3'-Dichlorobenzidine	5.05 U	4.50 U	5.35 U	5.48 U	5.16 U	4,800	HH	4,800	HH
3-Nitroaniline	3.41 U	3.04 U	3.61 U	3.70 U	3.49 U	70,000	Eco	6,000,000	HH
4,6-Dinitro-2-methylphenol	2.09 U	1.86 U	2.22 U	2.27 U	2.14 U	49,000	HH	49,000	HH
4-Bromophenyl Phenyl Ether	2.14 U	1.91 U	2.27 U	2.32 U	2.19 U	-	-	-	-
4-Chloro-3-methylphenol	1.04 U	0.925 U	1.10 U	1.13 U	1.06 U	62,000,000	HH	62,000,000	HH
4-Chloroaniline	1.08 U	0.963 U	1.15 U	1.17 U	1.11 U	8,600	HH	8,600	HH
4-Chlorophenyl Phenyl Ether	2.50 U	2.23 U	2.65 U	2.71 U	2.56 U	-	-	-	-
4-Nitroaniline	4.77 U	4.25 U	5.05 U	5.18 U	4.88 U	40,000	Eco	86,000	HH
4-Nitrophenol	9.52 U	8.48 U	10.1 U	10.3 U	9.74 U	7,000	Eco	180,000,000	HH
Aniline	2.14 U	1.91 U	2.27 U	2.32 U	2.19 U	200,000	Eco	300,000	HH
Benzidine	3.28 U	2.92 U	3.48 U	3.56 U	3.35 U	55,000	HH	55,000	HH
Benzoic Acid	**108 J**	16.6 U	**27.3 J**	20.2 U	19.0 U	200,000	Eco	2,500,000,000	HH
Benzyl Alcohol	2.31 U	2.06 U	2.45 U	2.51 U	2.37 U	2,260	Eco	62,000,000	HH
Bis(2-chloroethoxy)methane	2.23 UJ	1.99 UJ	2.37 UJ	2.42 UJ	2.28 UJ	730,000	Eco	1,800,000	HH
Bis(2-chloroethyl) Ether	1.83 U	1.63 U	1.93 U	1.98 U	1.87 U	1,000	HH	1,000	HH
Bis(2-chloroisopropyl) Ether	9.29 U	8.28 U	9.85 U	10.1 U	9.50 U	1,000	HH	1,000	HH
Bis(2-ethylhexyl) Phthalate	**1,035**	1.90 U	**332**	2.31 U	**542**	4,500	Eco	150,000	HH
Butyl Benzyl Phthalate	**39.7 J**	2.22 U	2.64 U	2.70 U	2.55 U	450	Eco	910,000	HH
Carbazole	**19.4**	2.06 U	**9.49 J**	2.51 U	2.37 U	2,260	Eco	1,000,000	HH
Dibenzofuran	**2.48 J**	0.479 U	0.569 U	0.583 U	0.550 U	2.00	Eco	1,000,000	HH
Diethyl Phthalate	4.20 U	3.74 U	4.45 U	4.56 U	4.29 U	100,000	Eco	490,000,000	HH
Dimethyl Phthalate	2.28 U	2.03 U	2.42 U	2.47 U	2.33 U	150,000	HH	150,000	HH
Di-n-butyl Phthalate	2.16 UJ	1.89 UJ	2.24 UJ	13.1 UJ	19.0 UJ	450	Eco	62,000,000	HH
Di-n-octyl Phthalate	**127**	1.91 U	**61.6**	2.32 U	**88.1**	450	Eco	150,000	HH
Hexachlorobenzene	0.615 U	0.548 U	0.652 U	0.668 U	0.629 U	1,800	HH	1,800	HH
Hexachlorobutadiene	0.850 U	0.757 U	0.901 U	0.923 U	0.870 U	22,000	HH	22,000	HH
Hexachlorocyclopentadiene	0.922 U	0.822 U	0.977 U	1.00 U	0.943 U	10,000	Eco	3,700,000	HH
Hexachloroethane	1.97 U	1.75 U	2.08 U	2.13 U	2.01 U	150,000	HH	150,000	HH
Isophorone	0.586 U	0.522 U	0.621 U	0.636 U	0.600 U	1,800,000	HH	1,800,000	HH
Nitrobenzene	3.50 U	3.12 U	3.71 U	3.80 U	3.58 U	8,000	Eco	24,000	HH
N-Nitrosodimethylamine	3.55 U	3.16 U	3.76 U	3.85 U	3.63 U	34.0	HH	34.0	HH
N-Nitrosodi-n-propylamine	1.56 U	1.39 U	1.65 U	1.69 U	1.59 U	250	HH	250	HH
N-Nitrosodiphenylamine	0.665 U	0.593 U	0.705 U	0.722 U	0.680 U	20,000	Eco	350,000	HH
p-cresol (4-Methylphenol)	1.37 U	1.22 U	1.45 U	1.49 U	1.40 U	-	-	-	-
Pentachlorophenol	2.26 U	2.01 U	2.39 U	2.45 U	2.31 U	2,100	Eco	13,000	HH
Phenol	0.841 U	0.749 U	0.891 U	0.913 U	0.860 U	30,000	Eco	180,000,000	HH
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)									
2-Methylnaphthalene	**4.84 J**	0.539 U	0.641 U	0.656 U	**2.64 J**	4,100,000	HH	4,100,000	HH
Acenaphthene	**10.9**	0.531 U	**5.88**	0.648 U	**8.09**	19,000,000	HH	19,000,000	HH
Acenaphthylene	**4.33**	0.610 U	0.726 U	0.744 U	0.701 U	23,000	HH	23,000	HH
Anthracene	**14.7**	0.394 U	**8.55**	0.480 U	**6.41**	93,000,000	HH	93,000,000	HH
Fluorene	**8.53**	0.669 U	**7.13**	0.816 U	0.768 U	12,000,000	HH	12,000,000	HH
Naphthalene	**4.11**	0.918 U	**2.50**	1.12 U	1.05 U	23,000	HH	23,000	HH
Phenanthrene	**116 J**	**7.86**	**24.8**	0.750 U	**18.3**	93,000,000	HH	93,000,000	HH
Total LPAHs (KM, capped; NDs at MDL)	**158 J**	**11.0 J**	**49.6 J**	4.56 U	NC	29,000	Eco	-	-
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)									
Benzo(a)anthracene	**183 J**	1.05 U	**48.3 J**	1.28 U	**26.5 J**	2,700	HH	2,700	HH
Benzo(a)pyrene	**160**	0.656 U	**40.4**	0.799 U	**28.9**	270	HH	270	HH
Benzo(g,h,i)perylene	**94.6 J**	0.498 U	**29.8 J**	0.607 U	**18.9 J**	27,000	HH	27,000	HH
Benzofluoranthenes, Total	**290**	0.939 U	**73.4**	1.14 U	**39.0**	2,700	HH	2,700	HH
Chrysene	**225**	0.741 U	**85.8**	0.903 U	**32.7**	270,000	HH	270,000	HH
Dibenz(a,h)anthracene	**34.2 J**	0.643 U	**1.23 J**	0.784 U	0.739 U	270	HH	270	HH
Fluoranthene	**218**	1.05 U	**52.7**	1.28 U	**41.6**	8,900,000	HH	8,900,000	HH
Indeno(1,2,3-cd)pyrene	**83.6 J**	0.472 U	**26.5 J**	0.576 U	**15.3 J**	2,700	HH	2,700	HH
Pyrene	**367 J**	0.352 U	**51.6**	0.429 U	**44.8**	6,700,000	HH	6,700,000	HH
Total HPAHs (KM, capped; NDs at MDL)	**1,364 J**	5.46 U	**336 J**	6.66 U	NC	1,100	Eco	-	-

Notes:

µg/kg = microgram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-5c
2004 Sandblast Supplemental Site Inspection Soil Analytical Results
Semivolatile Organic Compounds
(Page 3 of 3)

Site ID	HA2	HA3	HA4	HA5	HA9	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)	Selected SLV (>3 ft bgs)	SLV Source (>3 ft bgs)
Sample ID	041122SGA16SS	041122SGA17SS	041122SGA21SS	041122SGA23SS	041123SGA28SS				
Sample Date	11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/23/2004				
Sample Depth (Feet bgs)	0.5	0.5	3.0	3.0	0.5				
Medium	Soil	Soil	Soil	Soil	Soil				
Semivolatile Organic Compounds (µg/kg dry)									
1,2,4-Trichlorobenzene	0.895 U	9.57 U	1.07 U	1.06 U	0.939 U	20,000	Eco	99,000	HH
1,2-Dichlorobenzene	0.716 U	7.65 U	0.859 U	0.850 U	0.751 U	2,260	Eco	19,000,000	HH
1,3-Dichlorobenzene	0.898 U	9.60 U	1.08 U	1.07 U	0.942 U	2,260	Eco	17,000	HH
1,4-Dichlorobenzene	0.887 U	9.48 U	1.06 U	1.05 U	0.930 U	17,000	HH	17,000	HH
2,4,5-Trichlorophenol	0.818 U	8.75 U	0.981 U	0.971 U	0.858 U	4,000	Eco	62,000,000	HH
2,4,6-Trichlorophenol	0.834 U	8.92 U	1.00 U	0.990 U	0.875 U	10,000	Eco	200,000	HH
2,4-Dichlorophenol	0.935 U	10.0 U	1.12 U	1.11 U	0.981 U	20,000	Eco	1,800,000	HH
2,4-Dimethylphenol	0.807 UJ	8.62 U	0.967 U	0.957 UJ	0.846 UJ	20,000	Eco	12,000,000	HH
2,4-Dinitrophenol	7.37 U	78.8 U	8.84 U	8.75 U	7.73 U	20,000	Eco	1,200,000	HH
2,4-Dinitrotoluene	1.79 U	19.2 UJ	2.15 U	2.13 U	1.88 U	5,500	HH	5,500	HH
2,6-Dinitrotoluene	1.13 U	12.1 U	1.35 U	1.34 U	1.18 U	240,000	HH	240,000	HH
2-Chloronaphthalene	0.712 U	7.61 U	0.853 U	0.845 U	0.746 U	82,000,000	HH	82,000,000	HH
2-Chlorophenol	0.710 U	7.59 U	0.851 U	0.842 U	0.744 U	60,000	Eco	5,100,000	HH
2-Methylphenol	0.995 U	10.6 U	1.19 U	1.18 U	1.04 U	50,000	Eco	31,000,000	HH
2-Nitroaniline	0.573 U	6.12 U	0.687 U	0.680 U	0.600 U	6,000,000	HH	6,000,000	HH
2-Nitrophenol	1.20 U	12.8 U	1.44 U	1.43 U	1.26 U	180,000,000	HH	180,000,000	HH
3,3'-Dichlorobenzidine	4.58 U	48.9 U	5.49 U	5.43 U	4.80 U	4,800	HH	4,800	HH
3-Nitroaniline	3.09 U	33.0 U	3.70 U	3.67 U	3.24 U	70,000	Eco	6,000,000	HH
4,6-Dinitro-2-methylphenol	1.90 U	20.3 U	2.28 U	2.25 U	1.99 U	49,000	HH	49,000	HH
4-Bromophenyl Phenyl Ether	1.94 U	20.7 U	2.33 U	2.30 U	2.03 U	-	-	-	-
4-Chloro-3-methylphenol	0.942 U	10.1 UJ	1.13 U	1.12 U	0.987 U	62,000,000	HH	62,000,000	HH
4-Chloroaniline	0.981 U	10.5 U	1.18 U	1.16 U	1.03 U	8,600	HH	8,600	HH
4-Chlorophenyl Phenyl Ether	2.27 U	24.2 U	2.72 U	2.69 U	2.38 U	-	-	-	-
4-Nitroaniline	4.32 U	46.2 UJ	5.18 U	5.13 U	4.53 U	40,000	Eco	86,000	HH
4-Nitrophenol	8.64 U	92.3 UJ	10.4 U	10.3 U	9.05 U	7,000	Eco	180,000,000	HH
Aniline	1.94 U	20.7 U	2.33 U	2.30 U	2.03 U	200,000	Eco	300,000	HH
Benzidine	2.97 U	31.8 U	3.57 U	3.53 U	3.12 U	55,000	HH	55,000	HH
Benzoic Acid	**175 J**	180 U	20.2 U	20.0 U	17.7 U	200,000	Eco	2,500,000,000	HH
Benzyl Alcohol	2.10 U	22.4 U	2.52 U	2.49 U	**7.81**	2,260	Eco	62,000,000	HH
Bis(2-chloroethoxy)methane	2.02 UJ	21.6 U	2.43 U	2.40 UJ	2.12 UJ	730,000	Eco	1,800,000	HH
Bis(2-chloroethyl) Ether	1.66 U	17.7 U	1.99 U	1.97 U	1.74 U	1,000	HH	1,000	HH
Bis(2-chloroisopropyl) Ether	8.42 U	90.1 U	10.1 U	10.0 U	8.83 U	1,000	HH	1,000	HH
Bis(2-ethylhexyl) Phthalate	**174**	**2,220 J**	**19,800**	**127**	**220**	4,500	Eco	150,000	HH
Butyl Benzyl Phthalate	21.1 U	24.1 U	**31.7 J**	2.68 U	2.37 U	450	Eco	910,000	HH
Carbazole	**24.0**	**524**	2.52 U	2.49 U	**4.56 J**	2,260	Eco	1,000,000	HH
Dibenzofuran	**3.61 J**	**76.6**	**123**	0.578 U	**0.996 J**	2.00	Eco	1,000,000	HH
Diethyl Phthalate	3.81 U	40.7 U	4.56 U	4.52 U	3.99 U	100,000	Eco	490,000,000	HH
Dimethyl Phthalate	2.07 U	22.1 U	2.48 U	2.45 U	2.17 U	150,000	HH	150,000	HH
Di-n-butyl Phthalate	1.92 UJ	**73.7 J**	**23.9**	2.28 UJ	11.1 U	450	Eco	62,000,000	HH
Di-n-octyl Phthalate	1.94 U	20.7 U	2.33 U	**22.9 J**	**16.1 J**	450	Eco	150,000	HH
Hexachlorobenzene	0.558 U	5.96 U	0.669 U	0.662 U	0.585 U	1,800	HH	1,800	HH
Hexachlorobutadiene	0.771 U	8.24 U	0.924 U	0.915 U	0.808 U	22,000	HH	22,000	HH
Hexachlorocyclopentadiene	0.836 U	8.94 U	1.00 U	0.993 U	0.877 U	10,000	Eco	3,700,000	HH
Hexachloroethane	1.78 U	19.0 U	2.14 U	2.12 U	1.87 U	150,000	HH	150,000	HH
Isophorone	0.531 U	5.68 U	0.637 U	0.631 U	0.557 U	1,800,000	HH	1,800,000	HH
Nitrobenzene	3.17 U	33.9 U	3.81 U	3.77 U	3.33 U	8,000	Eco	24,000	HH
N-Nitrosodimethylamine	3.22 U	34.4 U	3.86 U	3.82 U	3.37 U	34.0	HH	34.0	HH
N-Nitrosodi-n-propylamine	1.41 U	15.1 U	1.69 U	1.68 U	1.48 U	250	HH	250	HH
N-Nitrosodiphenylamine	0.603 U	6.45 U	0.723 U	0.716 U	0.632 U	20,000	Eco	350,000	HH
p-cresol (4-Methylphenol)	1.24 U	13.3 U	1.49 U	1.48 U	**2.46 J**	-	-	-	-
Pentachlorophenol	2.05 U	21.9 UJ	2.45 U	2.43 U	2.14 U	2,100	Eco	13,000	HH
Phenol	0.762 U	8.15 U	0.914 U	0.905 U	0.799 U	30,000	Eco	180,000,000	HH
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)									
2-Methylnaphthalene	**2.53 J**	**31.8**	0.657 U	0.651 U	**1.29 J**	4,100,000	HH	4,100,000	HH
Acenaphthene	**16.1**	**296**	**328**	0.642 U	**5.41**	19,000,000	HH	19,000,000	HH
Acenaphthylene	**4.65**	**54.7**	**9.14**	0.737 U	**1.39 J**	23,000	HH	23,000	HH
Anthracene	**21.3**	**832**	**447**	0.476 U	**5.03**	93,000,000	HH	93,000,000	HH
Fluorene	**10.5**	**278**	**164**	0.809 U	0.714 U	12,000,000	HH	12,000,000	HH
Naphthalene	0.934 U	**78.2**	1.12 U	**2.04 J**	**2.56**	23,000	HH	23,000	HH
Phenanthrene	**115**	**3,250**	**1,580**	**2.47 J**	**38.2**	93,000,000	HH	93,000,000	HH
Total LPAHs (KM, capped; NDs at MDL)	**168 J**	**4,789**	**2,529 J**	**6.41 J**	**53.3 J**	29,000	Eco	-	-
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)									
Benzo(a)anthracene	**114 J**	**6,440**	**2,030**	1.26 U	**62.3 J**	2,700	HH	2,700	HH
Benzo(a)pyrene	**108**	**6,470**	**1,970**	0.792 U	**74.1**	270	HH	270	HH
Benzo(g,h,i)perylene	**61.9 J**	**3,830**	**914**	**4.33 J**	**66.4 J**	27,000	HH	27,000	HH
Benzofluoranthenes, Total	**212**	**12,100**	**3,040**	**7.70**	**135**	2,700	HH	2,700	HH
Chrysene	**129**	**7,590**	**1,910**	0.895 U	**75.3**	270,000	HH	270,000	HH
Dibenz(a,h)anthracene	**25.4 J**	**1,430**	**347**	0.777 U	**16.5 J**	270	HH	270	HH
Fluoranthene	**216**	**20,700**	**4,330**	**6.29**	**71.9**	8,900,000	HH	8,900,000	HH
Indeno(1,2,3-cd)pyrene	**60.8 J**	**3,910**	**939**	**3.52 J**	**49.8 J**	2,700	HH	2,700	HH
Pyrene	**217**	**21,900**	**5,470 J**	**9.14**	**79.3**	6,700,000	HH	6,700,000	HH
Total HPAHs (KM, capped; NDs at MDL)	**932 J**	**72,270**	**17,910 J**	**26.4 J**	**496 J**	1,100	Eco	-	-

Notes:

µg/kg = microgram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-5d
2004 Sandblast Supplemental Site Inspection Groundwater Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, Butyltins, Pesticides, and General Chemistry Parameters
(Page 1 of 2)

Site ID	DP1	DP10	DP11	DP12	DP12	DP2	DP3*	DP4	DP5*	DP7	DP9	Selected Discharge to Surface Water / Bioaccumulation	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	041116SGA01GW	041118SGA06GW	041119SGA12GW	041119SGA11GW	041122SGA11GW	041117SGA02GW	041117SGA03GW	041117SGA05GW	041118SGA07GW	041119SGA09GW	041119SGA10GW				
Sample Date	11/16/2004	11/17/2004	11/19/2004	11/19/2004	11/22/2004	11/17/2004	11/17/2004	11/17/2004	11/17/2004	11/19/2004	11/19/2004				
Sample Depth (Feet bgs)	12.0-17.0	7.8-12.8	7.0-17.0	7.8-17.8	7.8-17.8	12.0-17.0	11.0-16.0	13.0-18.0	18.5-28.5	12.9-17.9	10.0-20.0				
Total PCB Aroclors (µg/L)															
Aroclor 1016	0.00226 U	-	-	-	-	0.00216 U	0.00207 U	0.00244 U	0.00208 U	0.00206 U	0.00237 U	0.0000640	HH	0.0140	Eco
Aroclor 1221	0.00226 U	-	-	-	-	0.00216 U	0.00207 U	0.00244 U	0.00208 U	0.00206 U	0.00237 U	0.0000640	HH	0.00680	HH
Aroclor 1232	0.00226 U	-	-	-	-	0.00216 U	0.00207 U	0.00244 U	0.00208 U	0.00206 U	0.00237 U	0.0000640	HH	0.00680	HH
Aroclor 1242	0.00226 U	-	-	-	-	0.00216 U	0.00207 U	0.00244 U	0.00208 U	0.00206 U	0.00237 U	0.0000640	HH	0.0140	Eco
Aroclor 1248	0.00226 U	-	-	-	-	0.00216 U	0.00207 U	0.00244 U	0.00208 U	0.00206 U	0.00237 U	0.0000640	HH	0.0140	Eco
Aroclor 1254	0.00248 U	-	-	-	-	0.00238 U	0.00228 U	0.00269 U	0.00228 U	0.00227 U	0.00261 U	0.0000640	HH	0.0140	Eco
Aroclor 1260	0.00248 U	-	-	-	-	0.00238 U	0.00228 U	0.00269 U	0.00228 U	0.00227 U	0.00261 U	0.0000640	HH	0.0140	Eco
Total Metals (µg/L)															
Aluminum	**12,400**	**6,730**	**17,900**	-	**17,500**	**2,250**	**93.7 J**	**1,080**	**280**	**494**	**74.2 J**	-	-	37,000	HH
Antimony	**0.898**	**0.362 J**	**1.57**	-	**0.233 J**	**0.934**	**0.476 J**	**0.586**	0.500 U	**0.477 J**	**0.317 J**	5.60	HH	15.0	HH
Arsenic	**4.61**	**1.87**	**7.70**	-	**0.262 J**	**2.50**	**0.978**	**1.17**	**0.114 J**	0.102 U	0.102 U	0.0180	HH	0.0380	HH
Barium	**83.7**	**26.2**	**97.8**	-	**70.2**	**12.5**	**3.76**	**11.7**	**24.9**	**16.2**	**8.99**	1,000	HH	7,300	HH
Beryllium	**0.307 J**	**0.157 J**	**0.219 J**	-	**0.785**	0.0782 U	0.0782 U	0.0782 U	0.0782 U	0.0782 U	0.0782 U	-	-	73.0	HH
Cadmium	0.0247 U	0.0247 U	0.0247 U	-	0.0247 U	0.0247 U	0.0247 U	0.0247 U	0.0247 U	0.0247 U	0.0247 U	-	-	18.0	HH
Calcium	**33,700**	**32,400**	**22,000**	-	**24,400**	**22,800**	**24,850**	**18,300**	**32,850**	**32,900**	**31,100**	-	-	-	-
Chromium	**10.7**	**16.2**	**21.5**	-	**31.8**	**9.37**	**4.65**	**8.08**	**4.74**	**2.61**	**5.26**	-	-	55,000	HH
Cobalt	**6.46**	**5.71**	**13.1**	-	**2.78 J**	**1.68 J**	0.770 U	0.770 U	**3.75 J**	0.770 U	0.770 U	-	-	11.0	HH
Copper	**36.5**	**19.0**	**43.4**	-	**204**	**7.29**	**1.38**	**3.80**	**2.55**	**3.84**	**1.44 J**	1,300	HH	1,500	HH
Iron	**16,500**	**9,820**	**25,900**	-	**23,700**	**3,220**	**84.4 J**	**1,290**	**546**	**613**	14.0 U	300	HH	26,000	HH
Lead	**5.01**	**2.58**	**6.82**	-	**13.7**	**1.08**	0.500 U	**0.652**	0.500 U	0.500 U	**0.0580 J**	-	-	15.0	HH
Magnesium	**11,800**	**15,400**	**14,400**	-	**8,700**	**6,130**	**5,835**	**5,130**	**10,400**	**9,310**	**8,300**	-	-	-	-
Manganese	**219**	**182**	**489**	-	**473**	**68.2**	**2.10 J**	**22.7**	**709**	**73.8**	**9.11**	50.0	HH	880	HH
Mercury	**0.0760 J**	0.0530 U	0.0530 U	-	0.0530 U	**0.100 J**	0.0530 U	0.0530 U	0.0530 U	0.0530 U	0.0530 U	-	-	11.0	HH
Nickel	**8.96 J**	**7.94 J**	**21.4**	-	**10.8**	**2.45 J**	0.370 U	**1.16 J**	**3.27 J**	**1.39 J**	**1.02 J**	610	HH	730	HH
Potassium	**2,050**	**1,050**	**3,210**	-	**2,150**	**898 J**	**916 J**	**1,520**	**1,540**	**2,060**	**2,260**	-	-	-	-
Selenium	**2.06**	**1.21**	**1.27**	-	**1.29**	**0.904**	**1.09**	**0.895**	**1.70**	**2.04**	**0.815**	170	HH	180	HH
Silver	**0.241**	**0.0690 J**	**0.166**	-	**0.376**	**0.0450 J**	0.0188 U	**0.0280 J**	**0.0195 J**	**0.0330 J**	**0.0270 J**	-	-	180	HH
Sodium	**10,700**	**8,240**	**42,900**	-	**21,400**	**6,350**	**6,445**	**6,420**	**10,750**	**7,160**	**8,630**	-	-	-	-
Thallium	**0.0920 J**	**0.0490 J**	**0.146 J**	-	**0.0530 J**	**0.0570 J**	0.0292 U	0.0292 U	**0.0855 J**	**0.0430 J**	0.0292 U	0.240	HH	2.00	HH
Vanadium	**31.5**	**22.8**	**47.0**	-	**77.6**	**9.25 J**	**2.43 J**	**5.40 J**	**2.08 J**	**3.35 J**	**1.82 J**	-	-	2.60	HH
Zinc	**30.7**	**19.9**	**44.4**	-	**21.2**	**8.58 J**	**3.87 J**	**6.88 J**	**5.19 J**	**4.19 J**	**2.88 J**	7,400	HH	11,000	HH
Dissolved Metals (µg/L)															
Aluminum	**277**	**7.06 J**	**28.4 J**	-	**1,370**	**15.1 J**	**5.88 J**	5.88 U	5.88 U	5.88 U	**12.5 J**	87.0	Eco	87.0	Eco
Antimony	**0.305 J**	**0.207 J**	**1.67**	-	**0.339 J**	**0.326 J**	**0.297 J**	**0.253 J**	**0.209 J**	**0.302 J**	**0.149 J**	5.60	HH	15.0	HH
Arsenic	**0.650**	**1.34**	**1.36**	-	**0.262 J**	**1.01**	**1.15**	**1.19**	**0.700**	**0.570**	**1.06**	0.0180	HH	0.0380	HH
Barium	**7.63**	**7.55**	**15.0**	-	**11.2**	**3.39**	**3.52**	**5.91**	**20.7**	**11.5**	**7.98**	4.00	Eco	4.00	Eco
Beryllium	0.0782 U	0.0782 U	0.0782 U	-	0.0782 U	0.0782 U	0.0782 U	0.0782 U	0.0782 U	0.0782 U	0.0782 U	5.30	Eco	5.30	Eco
Cadmium	0.0247 U	0.0247 U	0.0247 U	-	0.0247 U	**0.0300 J**	0.0247 U	0.0247 U	0.0247 U	0.0247 U	0.0247 U	0.250	Eco	0.250	Eco
Calcium	**28,000**	**30,400**	**16,800**	-	**10,800**	**22,200**	**25,350**	**18,500**	**29,650**	**34,100**	**31,300**	116,000	Eco	116,000	Eco
Chromium	**1.94**	**3.83**	**3.48**	-	**4.29**	**1.69**	**1.85**	**0.838**	**2.93**	**3.12**	**3.48**	74.0	Eco	74.0	Eco
Cobalt	**2.48 J**	**1.21 J**	**3.23 J**	-	**5.08**	**1.42 J**	**1.53 J**	0.770 U	**4.65 J**	**2.26 J**	0.770 U	23.0	Eco	11.0	HH
Copper	**1.12 J**	0.500 U	1.00 U	-	**4.38**	**0.752 J**	**0.804 J**	**0.782 J**	**0.958 J**	1.23 U	**1.08 J**	9.00	Eco	9.00	Eco
Iron	**228**	14.0 U	**37.3 J**	-	**476**	14.0 U	14.0 U	14.0 U	**105 J**	14.0 U	14.0 U	300	HH	1,000	Eco
Lead	**0.0960 J**	**0.0270 J**	0.500 U	-	**0.378 J**	**0.0350 J**	**0.0260 J**	0.0240 U	**0.0310 J**	0.500 U	0.500 U	2.50	Eco	2.50	Eco
Magnesium	**7,650**	**12,000**	**5,230**	-	**3,310**	**5,350**	**6,055**	**4,940**	**9,470**	**9,550**	**8,270**	82,000	Eco	82,000	Eco
Manganese	**92.3**	**16.7**	**106**	-	**31.3**	**9.85**	**1.71 J**	**4.63**	**587**	**59.6**	**6.87**	50.0	HH	120	Eco
Mercury	**0.0600 J**	0.0530 U	0.0530 U	-	0.0530 U	0.0530 U	0.0530 U	0.0530 U	**0.0550 J**	0.0530 U	0.0530 U	0.770	Eco	0.770	Eco
Nickel	**0.403 J**	0.370 U	10.0 U	-	**0.880 J**	0.370 U	0.370 U	0.370 U	**2.10 J**	10.0 U	10.0 U	52.0	Eco	52.0	Eco
Potassium	**1,050**	**604 J**	**2,210**	-	**1,610**	**527 J**	**720 J**	**1,230**	**1,115**	**2,080**	**1,880**	53,000	Eco	53,000	Eco
Selenium	**0.797**	**0.819**	**0.605**	-	**0.328 J**	**0.383 J**	**0.597**	**0.235 J**	**1.25**	**1.30**	**0.654**	5.00	Eco	5.00	Eco
Silver	**0.0470 J**	**0.0270 J**	0.0188 U	-	**0.0790 J**	**0.0270 J**	**0.0265 J**	**0.0340 J**	**0.0265 J**	0.0188 U	**0.0240 J**	0.120	Eco	0.120	Eco
Sodium	**10,900**	**8,530**	**47,700**	-	**26,400**	**6,860**	**7,135**	**6,560**	**11,700**	**7,240**	**9,110**	680,000	Eco	680,000	Eco
Thallium	0.0292 U	0.0292 U	**0.0310 J**	-	0.0292 U	0.0292 U	0.0292 U	0.0292 U	**0.0855 J**	**0.0460 J**	0.0292 U	0.240	HH	2.00	HH
Vanadium	**1.00 J**	**0.582 J**	10.0 U	-	**2.61 J**	**1.02 J**	**1.45 J**	**1.46 J**	0.488 U	10.0 U	10.0 U	20.0	Eco	2.60	HH
Zinc	**2.00 J**	2.00 U	2.00 U	-	**3.48 J**	2.00 U	2.00 U	2.00 U	**2.04 J**	**2.47 J**	2.00 U	120	Eco	120	Eco

Table 5-5d
2004 Sandblast Supplemental Site Inspection Groundwater Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, Butyltins, Pesticides, and General Chemistry Parameters
(Page 2 of 2)

Site ID	DP1	DP10	DP11	DP12	DP12	DP2	DP3*	DP4	DP5*	DP7	DP9	Selected Discharge to Surface Water / Bioaccumulation	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	041116SGA01GW	041118SGA06GW	041119SGA12GW	041119SGA11GW	041122SGA11GW	041117SGA02GW	041117SGA03GW	041117SGA05GW	041118SGA07GW	041119SGA09GW	041119SGA10GW				
Sample Date	11/16/2004	11/17/2004	11/19/2004	11/19/2004	11/22/2004	11/17/2004	11/17/2004	11/17/2004	11/17/2004	11/19/2004	11/19/2004				
Sample Depth (Feet bgs)	12.0-17.0	7.8-12.8	7.0-17.0	7.8-17.8	7.8-17.8	12.0-17.0	11.0-16.0	13.0-18.0	18.5-28.5	12.9-17.9	10.0-20.0				
Total Petroleum Hydrocarbons (µg/L)															
Diesel Range Organics	-	74.7 U	-	-	-	-	-	-	89.7 U	87.0 U	76.8 U	-	-	90.0	HH
Residual Range Organics	-	92.5 U	-	-	-	-	-	-	111 U	**113 J**	95.2 U	-	-	290	HH
Gasoline Range Organics	-	**14.7 J**	**20.9 J**	13.0 U	-	-	-	-	13.0 U	13.0 U	13.0 UJ	-	-	100	HH
Total Butyltins (µg/L)															
Dibutyltin	0.000287 U	-	-	-	-	0.000236 U	0.000231 U	0.000248 U	-	-	-	0.0630	Eco	0.0630	Eco
Monobutyltin	0.000142 U	-	-	-	-	**0.00671 J**	0.000114 U	**0.00520 J**	-	-	-	0.0630	Eco	0.0630	Eco
Tetrabutyltin	0.000748 U	-	-	-	-	0.000615 U	0.000600 U	0.000645 U	-	-	-	0.0630	Eco	0.0630	Eco
Tributyltin	0.000552 U	-	-	-	-	0.000454 U	**0.00285 J**	**0.00435 J**	-	-	-	0.0630	Eco	0.0630	Eco
Total Pesticides (µg/L)															
4,4'-DDD	-	-	-	-	-	-	-	-	0.000453 U	0.000512 U	0.000575 U	0.000310	HH	0.00100	Eco
4,4'-DDE	-	-	-	-	-	-	-	-	0.000375 U	0.000424 U	0.000476 U	0.000220	HH	0.00100	Eco
4,4'-DDT	-	-	-	-	-	-	-	-	0.000480 U	0.000543 U	0.000609 U	0.000220	HH	0.00100	Eco
Aldrin	-	-	-	-	-	-	-	-	0.000110 U	0.000124 U	0.000140 U	0.0000490	HH	0.00330	HH
BHC (alpha)	-	-	-	-	-	-	-	-	0.000354 U	0.000400 U	0.000449 U	0.00260	HH	0.00900	HH
BHC (beta)	-	-	-	-	-	-	-	-	0.000411 U	0.000464 U	0.000521 U	0.00910	HH	0.0370	HH
BHC (delta)	-	-	-	-	-	-	-	-	0.000226 U	0.000255 U	0.000286 U	0.00260	HH	0.00900	HH
BHC (gamma) Lindane	-	-	-	-	-	-	-	-	**0.000930 J**	**0.00232**	**0.00249 J**	0.0800	Eco	0.0520	HH
Chlordane (alpha)	-	-	-	-	-	-	-	-	0.000339 U	0.000383 U	0.000429 U	0.000800	HH	0.00430	Eco
Chlordane (gamma)	-	-	-	-	-	-	-	-	0.000461 U	0.000521 U	0.000584 U	0.000800	HH	0.00430	Eco
Dieldrin	-	-	-	-	-	-	-	-	0.000290 U	0.000328 U	0.000368 U	0.0000520	HH	0.00350	HH
Endosulfan I	-	-	-	-	-	-	-	-	0.000480 U	0.000542 U	0.000608 U	0.0560	Eco	0.0560	Eco
Endosulfan II	-	-	-	-	-	-	-	-	0.00192 U	0.000411 U	0.000462 U	0.0560	Eco	0.0560	Eco
Endosulfan Sulfate	-	-	-	-	-	-	-	-	0.000517 U	0.000584 U	0.000655 U	0.0510	Eco	0.0510	Eco
Endrin	-	-	-	-	-	-	-	-	0.000298 U	0.000337 U	0.000378 U	0.0360	Eco	0.0360	Eco
Endrin Aldehyde	-	-	-	-	-	-	-	-	0.000936 U	0.00106 U	0.00119 U	0.150	Eco	0.150	Eco
Endrin Ketone	-	-	-	-	-	-	-	-	0.000332 U	0.000375 U	0.000421 U	0.0590	HH	11.0	HH
Heptachlor	-	-	-	-	-	-	-	-	0.000724 U	0.000819 U	0.000919 U	0.0000790	HH	0.00380	Eco
Heptachlor Epoxide	-	-	-	-	-	-	-	-	0.000360 U	0.000407 U	0.000456 U	0.0000390	HH	0.00380	Eco
Methoxychlor	-	-	-	-	-	-	-	-	**0.000983 J**	0.000584 U	**0.00521 J**	0.0300	Eco	0.0300	Eco
Toxaphene	-	-	-	-	-	-	-	-	0.0112 U	0.0127 U	0.0142 U	0.000280	HH	0.00200	Eco
General Chemistry Parameters (mg/L)															
Carbon, Total Organic	**1.67**	**1.41**	-	-	-	**1.84**	**1.49**	**1.51**	**2.41**	**1.80**	**1.84**	-	-	-	-
Total Suspended Solids	**232**	**494**	**457**	**944**	-	**17.0**	2.00 U	**18.0**	**22.0**	**7.00**	2.00 U	-	-	-	-

Notes:

µg/L = microgram per liter
mg/L = milligram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed

-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-5e
2004 Sandblast Supplemental Site Inspection Groundwater Analytical Results
Volatile Organic Compounds
(Page 1 of 2)

Site ID	DP1	DP10	DP11	DP12	DP2	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	041116SGA01GW	041118SGA06GW	041119SGA12GW	041119SGA11GW	041117SGA02GW				
Sample Date	11/16/2004	11/17/2004	11/19/2004	11/19/2004	11/17/2004				
Sample Depth (Feet bgs)	12.0-17.0	7.8-12.8	7.0-17.0	7.8-17.8	12.0-17.0				
Total Volatile Organic Compounds (µg/L)									
1,1,1,2-Tetrachloroethane	0.0528 UJ	0.0528 U	0.0528 U	0.0528 U	0.0528 U	186	Eco	0.520	HH
1,1,1-Trichloroethane (TCA)	**0.104 J**	0.0477 U	**0.509 J**	**0.0997 J**	0.0477 U	11.0	Eco	11.0	Eco
1,1,2,2-Tetrachloroethane	0.0680 UJ	0.0680 U	0.0680 U	0.0680 U	0.0680 U	0.170	HH	0.0670	HH
1,1,2-Trichloroethane	0.0627 UJ	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.590	HH	0.230	HH
1,1-Dichloroethane	**0.0555 J**	0.0360 U	**0.173 J**	0.0360 U	0.0360 U	47.0	Eco	2.30	HH
1,1-Dichloroethene	0.0595 UJ	0.0595 U	**0.0624 J**	0.0595 U	0.0595 U	25.0	Eco	25.0	Eco
1,1-Dichloropropene	0.0695 UJ	0.0695 U	0.0695 U	0.0695 U	0.0695 U	-	-	0.430	HH
1,2,3-Trichlorobenzene	0.0605 UJ	0.0605 U	0.0605 U	0.0605 U	0.0605 U	8.00	Eco	2.30	HH
1,2,3-Trichloropropane	0.123 UJ	0.123 U	0.123 U	0.123 U	0.123 U	-	-	0.000720	HH
1,2,4-Trichlorobenzene	0.0513 UJ	1.0000 U	0.0513 U	0.05 U	0.0513 U	35.0	HH	2.30	HH
1,2,4-Trimethylbenzene	**0.0485 J**	**0.0317 J**	0.0283 U	**0.0415 J**	0.0283 U	7.30	Eco	7.30	Eco
1,2-Dibromo-3-chloropropane	0.222 UJ	0.222 U	0.222 U	0.222 U	0.222 U	-	-	0.000320	HH
1,2-Dibromoethane (EDB)	0.0637 UJ	0.0637 U	0.0637 U	0.0637 U	0.0637 U	-	-	0.00630	HH
1,2-Dichlorobenzene	0.0383 UJ	0.0383 U	0.0383 U	0.0383 U	0.0383 U	14.0	Eco	14.0	Eco
1,2-Dichloroethane (EDC)	0.0533 UJ	0.0533 U	0.0533 U	0.0533 U	0.0533 U	0.380	HH	0.140	HH
1,2-Dichloropropane	0.0380 UJ	0.0380 U	0.0380 U	0.0380 U	0.0380 U	0.500	HH	0.390	HH
1,3,5-Trimethylbenzene	**0.0297 J**	0.0249 U	0.0249 U	0.0249 U	0.0249 U	7.30	Eco	7.30	Eco
1,3-Dichlorobenzene	0.0599 UJ	0.0599 U	0.0599 U	0.0599 U	0.0599 U	71.0	Eco	0.420	HH
1,3-Dichloropropane	0.0738 UJ	0.0738 U	0.0738 U	0.0738 U	0.0738 U	5,700	Eco	730	HH
1,4-Dichlorobenzene	0.0180 UJ	0.0180 U	0.0180 U	0.0180 U	0.0180 U	15.0	Eco	0.420	HH
2,2-Dichloropropane	0.0487 UJ	0.0487 U	0.0487 U	0.0487 U	**0.130 J**	0.500	HH	0.390	HH
2-Butanone (MEK)	1.71 UJ	1.71 U	1.71 U	1.71 U	1.71 U	14,000	Eco	7,100	HH
2-Chlorotoluene	0.0857 UJ	0.0857 U	0.0857 U	0.0857 U	0.0857 U	-	-	730	HH
2-Hexanone	0.99 UJ	0.993 U	0.993 U	0.993 U	0.993 U	99.0	Eco	47.0	HH
4-Chlorotoluene	0.0491 UJ	0.0491 U	0.0491 U	0.0491 U	0.0491 U	-	-	2,600	HH
4-Isopropyltoluene	0.0397 UJ	0.0397 U	0.0397 U	0.0397 U	0.0397 U	-	-	-	-
4-Methyl-2-pentanone (MIBK)	0.31 UJ	0.309 U	0.309 U	0.309 U	0.309 U	170	Eco	170	Eco
Acetone	1.20 UJ	1.20 U	**1.59 J**	**3.88 J**	1.20 U	1,500	Eco	1,500	Eco
Benzene	**0.0579 J**	**0.0545 J**	**0.137 J**	**0.0800 J**	0.0417 U	2.20	HH	0.390	HH
Bromobenzene	0.0475 UJ	0.0475 U	0.0475 U	0.0475 U	0.0475 U	-	-	88.0	HH
Bromochloromethane	0.0573 UJ	0.0573 U	0.0573 U	0.0573 U	0.0573 U	0.550	HH	0.120	HH
Bromodichloromethane	0.0785 UJ	0.0785 U	0.0785 U	0.0785 U	0.0785 U	0.550	HH	0.120	HH
Bromoform	0.0830 UJ	0.0830 U	0.0830 U	**0.151 J**	0.0830 U	4.30	HH	7.20	HH
Bromomethane	0.0748 UJ	1.00 U	1.00 U	1.00 U	1.00 U	16.0	Eco	8.70	HH
Carbon Disulfide	**0.0619 J**	0.0494 U	1.00 U	1.00 U	0.0494 U	0.920	Eco	0.920	Eco
Carbon Tetrachloride	0.0970 UJ	0.0970 U	0.0970 U	0.0970 U	0.0970 U	0.230	HH	0.190	HH
Chlorobenzene	0.0376 UJ	0.0376 U	0.0376 U	0.0376 U	0.0376 U	50.0	Eco	50.0	Eco
Chloroethane	0.187 UJ	0.187 U	0.187 U	0.187 U	0.187 U	-	-	21,000	HH
Chloroform	0.0717 UJ	0.0717 U	0.0717 U	0.0717 U	**0.174 J**	5.70	HH	0.190	HH
Chloromethane	0.110 UJ	0.110 U	0.110 U	0.110 U	0.110 U	-	-	190	HH
cis-1,2-Dichloroethene	**3.76 J**	0.0433 U	**150 J**	**4.86**	**0.693 J**	590	Eco	360	HH
cis-1,3-Dichloropropene	0.0301 UJ	0.0301 U	0.0301 U	0.0301 U	0.0301 U	0.0550	Eco	0.0550	Eco
Dibromochloromethane	0.0539 UJ	0.0539 U	0.0539 U	0.0539 U	0.0539 U	0.400	HH	0.680	HH
Dibromomethane	0.0864 UJ	0.0864 U	0.0864 U	0.0864 U	0.0864 U	-	-	8.20	HH
Dichlorodifluoromethane	0.0575 UJ	0.0575 U	0.0575 U	0.0575 U	0.0575 U	-	-	390	HH
Dichloromethane (Methylene Chloride)	0.0752 UJ	0.0752 U	1.00 U	0.0752 U	0.0752 U	4.60	HH	4.40	HH
Ethylbenzene	0.0226 UJ	**0.0400 J**	**0.0357 J**	**0.0447 J**	0.0226 U	7.30	Eco	1.40	HH
Hexachlorobutadiene	0.152 UJ	0.152 U	0.152 U	0.152 U	0.152 U	0.440	HH	0.860	HH
Isopropylbenzene	**0.0197 J**	0.0165 U	0.0165 U	0.0165 U	0.0165 U	7.30	Eco	7.30	Eco
m,p-Xylenes	**0.132 J**	**0.131 J**	0.0718 U	**0.132 J**	0.0718 U	13.0	Eco	13.0	Eco
Naphthalene	0.0317 UJ	1.00 U	0.0317 U	1.00 U	1.00 U	620	Eco	0.140	HH
n-Butylbenzene	0.0603 UJ	0.0603 U	0.0603 U	0.0603 U	0.0603 U	-	-	-	-
n-Propylbenzene	0.0356 UJ	0.0356 U	0.0356 U	0.0356 U	0.0356 U	7.30	Eco	7.30	Eco
o-Xylene	**0.0735 J**	**0.0503 J**	0.0265 U	**0.0486 J**	0.0265 U	350	Eco	350	Eco
sec-Butylbenzene	0.0358 UJ	0.0358 U	0.0358 U	0.0358 U	0.0358 U	-	-	-	-
Styrene	0.0279 UJ	0.0279 U	0.0279 U	0.0279 U	0.0279 U	72.0	Eco	72.0	Eco
tert-Butylbenzene	0.0535 UJ	0.0535 U	0.0535 U	0.0535 U	0.0535 U	-	-	-	-
Tetrachloroethene (PCE)	**5.08 J**	**0.584 J**	**54.5**	**9.44**	**1.76**	0.690	HH	0.0930	HH
Toluene	**0.221 J**	**0.289 J**	**0.177 J**	**0.154 J**	1.00 U	9.80	Eco	9.80	Eco
trans-1,2-Dichloroethene	0.0584 UJ	0.0584 U	**1.09**	0.0584 U	0.0584 U	140	HH	110	HH
trans-1,3-Dichloropropene	0.0539 UJ	0.0539 U	0.0539 U	0.0539 U	0.0539 U	0.0550	Eco	0.0550	Eco
Trichloroethene (TCE)	**2.03 J**	0.0641 U	**43.7**	**2.95**	**0.597 J**	2.50	HH	0.0390	HH
Trichlorofluoromethane	0.0620 UJ	0.0620 U	0.0620 U	0.0620 U	0.0620 U	-	-	1,300	HH
Vinyl Acetate	1.01 UJ	0.320 U	0.320 U	0.320 U	0.320 U	16.0	Eco	16.0	Eco
Vinyl Chloride	0.0604 UJ	0.0604 U	**0.132 J**	0.0604 U	0.0604 U	0.0250	HH	0.0250	HH

Notes:
µg/L = microgram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-5e
2004 Sandblast Supplemental Site Inspection Groundwater Analytical Results
Volatile Organic Compounds
(Page 2 of 2)

Site ID	DP3*	DP4	DP5*	DP7	DP9	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	041117SGA03GW	041117SGA05GW	041118SGA07GW	041119SGA09GW	041119SGA10GW				
Sample Date	11/17/2004	11/17/2004	11/17/2004	11/19/2004	11/19/2004				
Sample Depth (Feet bgs)	11.0-16.0	13.0-18.0	18.5-28.5	12.9-17.9	10.0-20.0				
Total Volatile Organic Compounds (µg/L)									
1,1,1,2-Tetrachloroethane	0.0528 U	0.0528 U	0.0528 U	0.0528 U	0.0528 U	186	Eco	0.520	HH
1,1,1-Trichloroethane (TCA)	**0.0701 J**	0.0477 U	**2.23**	**0.127 J**	**0.137 J**	11.0	Eco	11.0	Eco
1,1,2,2-Tetrachloroethane	0.0680 U	0.0680 U	0.0680 U	0.0680 U	0.0680 U	0.170	HH	0.0670	HH
1,1,2-Trichloroethane	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.0627 U	0.590	HH	0.230	HH
1,1-Dichloroethane	0.0360 U	0.0360 U	**2.52**	**0.0982 J**	**0.178 J**	47.0	Eco	2.30	HH
1,1-Dichloroethene	0.0595 U	0.0595 U	**1.17**	0.0595 U	0.0595 U	25.0	Eco	25.0	Eco
1,1-Dichloropropene	0.0695 U	0.0695 U	0.0695 U	0.0695 U	0.0695 U	-	-	0.430	HH
1,2,3-Trichlorobenzene	0.0605 U	0.0605 U	0.0605 U	0.0605 U	0.0605 U	8.00	Eco	2.30	HH
1,2,3-Trichloropropane	0.123 U	0.123 U	0.123 U	0.123 U	0.123 U	-	-	0.000720	HH
1,2,4-Trichlorobenzene	0.0513 U	0.0513 U	0.0513 U	0.0513 U	0.0513 UJ	35.0	HH	2.30	HH
1,2,4-Trimethylbenzene	0.0283 U	0.0283 U	0.0283 U	0.0283 U	0.0283 U	7.30	Eco	7.30	Eco
1,2-Dibromo-3-chloropropane	0.222 U	0.222 U	0.222 U	0.222 U	0.222 U	-	-	0.000320	HH
1,2-Dibromoethane (EDB)	0.0637 U	0.0637 U	0.0637 U	0.0637 U	0.0637 U	-	-	0.00630	HH
1,2-Dichlorobenzene	0.0383 U	0.0383 U	0.0383 U	0.0383 U	0.0383 U	14.0	Eco	14.0	Eco
1,2-Dichloroethane (EDC)	0.0533 U	0.0533 U	0.0533 U	0.0533 U	0.0533 U	0.380	HH	0.140	HH
1,2-Dichloropropane	0.0380 U	0.0380 U	0.0380 U	0.0380 U	0.0380 U	0.500	HH	0.390	HH
1,3,5-Trimethylbenzene	0.0249 U	0.0249 U	0.0249 U	0.0249 U	0.0249 U	7.30	Eco	7.30	Eco
1,3-Dichlorobenzene	0.0599 U	0.0599 U	0.0599 U	0.0599 U	0.0599 U	71.0	Eco	0.420	HH
1,3-Dichloropropane	0.0738 U	0.0738 U	0.0738 U	0.0738 U	0.0738 U	5,700	Eco	730	HH
1,4-Dichlorobenzene	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	15.0	Eco	0.420	HH
2,2-Dichloropropane	**0.117 J**	0.0487 U	0.0487 U	**0.179 J**	0.0487 U	0.500	HH	0.390	HH
2-Butanone (MEK)	1.71 U	1.71 U	1.71 U	1.71 U	1.71 U	14,000	Eco	7,100	HH
2-Chlorotoluene	0.0857 U	0.0857 U	0.0857 U	0.0857 U	0.0857 U	-	-	730	HH
2-Hexanone	0.993 U	0.993 U	0.993 U	0.993 U	0.993 U	99.0	Eco	47.0	HH
4-Chlorotoluene	0.0491 U	0.0491 U	0.0491 U	0.0491 U	0.0491 U	-	-	2,600	HH
4-Isopropyltoluene	0.0397 U	0.0397 U	0.0397 U	0.0397 U	0.0397 U	-	-	-	-
4-Methyl-2-pentanone (MIBK)	0.309 U	0.309 U	0.309 U	0.309 U	0.309 U	170	Eco	170	Eco
Acetone	1.20 U	1.20 U	**1.22 J**	1.20 U	1.20 U	1,500	Eco	1,500	Eco
Benzene	0.0417 U	0.0417 U	**0.0621 J**	0.0417 U	**0.0546 J**	2.20	HH	0.390	HH
Bromobenzene	0.0475 U	0.0475 U	0.0475 U	0.0475 U	0.0475 U	-	-	88.0	HH
Bromochloromethane	0.0573 U	0.0573 U	0.0573 U	0.0573 U	0.0573 U	0.550	HH	0.120	HH
Bromodichloromethane	0.0785 U	0.0785 U	0.0785 U	0.0785 U	0.0785 U	0.550	HH	0.120	HH
Bromoform	0.0830 U	0.0830 U	0.0830 U	0.0830 U	0.0830 U	4.30	HH	7.20	HH
Bromomethane	0.0748 U	1.00 U	1.00 U	1.00 U	1.00 U	16.0	Eco	8.70	HH
Carbon Disulfide	0.0494 U	0.0494 U	1.00 U	1.00 U	0.0494 U	0.920	Eco	0.920	Eco
Carbon Tetrachloride	0.0970 U	0.0970 U	0.0970 U	0.0970 U	0.0970 U	0.230	HH	0.190	HH
Chlorobenzene	0.0376 U	0.0376 U	0.0376 U	0.0376 U	0.0376 U	50.0	Eco	50.0	Eco
Chloroethane	0.187 U	0.187 U	0.187 U	0.187 U	0.187 U	-	-	21,000	HH
Chloroform	0.0717 U	0.0717 U	**0.0907 J**	0.0717 U	0.0717 U	5.70	HH	0.190	HH
Chloromethane	0.110 U	0.110 U	0.110 U	0.110 U	0.110 U	-	-	190	HH
cis-1,2-Dichloroethene	**0.842 J**	**0.0948 J**	**341**	**4.54**	**10.1**	590	Eco	360	HH
cis-1,3-Dichloropropene	0.0301 U	0.0301 U	0.0301 U	0.0301 U	0.0301 U	0.0550	Eco	0.0550	Eco
Dibromochloromethane	0.0539 U	0.0539 U	0.0539 U	0.0539 U	0.0539 U	0.400	HH	0.680	HH
Dibromomethane	0.0864 U	0.0864 U	0.0864 U	0.0864 U	0.0864 U	-	-	8.20	HH
Dichlorodifluoromethane	0.0575 U	0.0575 U	0.0575 U	0.0575 U	0.0575 U	-	-	390	HH
Dichloromethane (Methylene Chloride)	0.0752 U	0.0752 U	0.0752 U	1.00 U	0.0752 U	4.60	HH	4.40	HH
Ethylbenzene	0.0226 U	1.00 U	**0.0403 J**	0.0226 U	0.0226 U	7.30	Eco	1.40	HH
Hexachlorobutadiene	0.152 U	0.152 U	0.152 U	0.152 U	0.152 U	0.440	HH	0.860	HH
Isopropylbenzene	0.0165 U	0.0165 U	0.0165 U	0.0165 U	0.0165 U	7.30	Eco	7.30	Eco
m,p-Xylenes	0.0718 U	0.0718 U	**0.0823 J**	0.0718 U	0.0718 U	13.0	Eco	13.0	Eco
Naphthalene	0.0317 U	**0.0359 J**	1.00 U	**0.0452 J**	0.0317 U	620	Eco	0.140	HH
n-Butylbenzene	0.0603 U	0.0603 U	0.0603 U	0.0603 U	0.0603 U	-	-	-	-
n-Propylbenzene	0.0356 U	0.0356 U	0.0356 U	0.0356 U	0.0356 U	7.30	Eco	7.30	Eco
o-Xylene	0.0265 U	0.0265 U	**0.0304 J**	0.0265 U	0.0265 U	350	Eco	350	Eco
sec-Butylbenzene	0.0358 U	0.0358 U	0.0358 U	0.0358 U	0.0358 U	-	-	-	-
Styrene	0.0279 U	0.0279 U	0.0279 U	0.0279 U	0.0279 U	72.0	Eco	72.0	Eco
tert-Butylbenzene	0.0535 U	0.0535 U	0.0535 U	0.0535 U	0.0535 U	-	-	-	-
Tetrachloroethene (PCE)	**1.14**	**0.336 J**	**3.70**	**0.411 J**	**1.09**	0.690	HH	0.0930	HH
Toluene	1.00 U	1.00 U	**0.299 J**	0.0588 U	**0.0917 J**	9.80	Eco	9.80	Eco
trans-1,2-Dichloroethene	0.0584 U	0.0584 U	**1.80**	0.0584 U	**0.0955 J**	140	HH	110	HH
trans-1,3-Dichloropropene	0.0539 U	0.0539 U	0.0539 U	0.0539 U	0.0539 U	0.0550	Eco	0.0550	Eco
Trichloroethene (TCE)	**0.342 J**	**0.0904 J**	**2.12**	**0.121 J**	**0.534 J**	2.50	HH	0.0390	HH
Trichlorofluoromethane	0.0620 U	0.0620 U	0.0620 U	0.0620 U	0.0620 U	-	-	1,300	HH
Vinyl Acetate	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U	16.0	Eco	16.0	Eco
Vinyl Chloride	0.0604 U	0.0604 U	**0.611 J**	0.0604 U	0.0604 U	0.0250	HH	0.0250	HH

Notes:

µg/L = microgram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
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J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-5f
2004 Sandblast Supplemental Site Inspection Groundwater Analytical Results
Total Semivolatile Organic Compounds

Site ID	DP1	DP10	DP11	DP2	DP3*	DP4	DP5*	DP7	DP9	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	041116SGA01GW	041118SGA06GW	041122SGA12GW	041117SGA02GW	041117SGA03GW	041117SGA05GW	041118SGA07GW	041119SGA09GW	041119SGA10GW				
Sample Date	11/16/2004	11/17/2004	11/22/2004	11/17/2004	11/17/2004	11/17/2004	11/17/2004	11/19/2004	11/19/2004				
Sample Depth (Feet bgs)	12.0-17.0	7.8-12.8	7.0-17.0	12.0-17.0	11.0-16.0	13.0-18.0	18.5-28.5	12.9-17.9	10.0-20.0				
Total Semivolatile Organic Compounds (µg/L)													
1,2,4-Trichlorobenzene	0.0135 U	0.0123 UJ	0.0122 U	0.0123 U	0.0127 U	0.0129 U	0.0121 U	0.0151 U	0.0117 UJ	35.0	HH	2.30	HH
1,2-Dichlorobenzene	0.0305 U	0.0279 U	0.0276 U	0.0278 U	0.0287 U	0.0291 U	0.0273 U	0.0340 U	0.0264 U	14.0	Eco	14.0	Eco
1,3-Dichlorobenzene	0.0403 U	0.0368 U	0.0364 U	0.0367 U	0.0379 U	0.0385 U	0.0361 U	0.0449 U	0.0349 U	71.0	Eco	0.420	HH
1,4-Dichlorobenzene	0.0347 U	0.0317 U	0.0314 U	0.0316 U	0.0326 U	0.0331 U	0.0311 U	0.0387 U	0.0300 U	15.0	Eco	0.420	HH
2,4,5-Trichlorophenol	0.0487 UJ	0.0444 UJ	0.0440 UJ	0.0443 UJ	-	-	-	0.0542 UJ	0.0421 UJ	18.0	Eco	18.0	Eco
2,4,6-Trichlorophenol	0.0353 UJ	0.0322 UJ	0.0319 UJ	0.0321 UJ	-	-	-	0.0393 UJ	0.0305 UJ	1.40	HH	5.20	HH
2,4-Dichlorophenol	0.0204 UJ	0.0186 UJ	0.0185 UJ	0.0186 UJ	-	-	-	0.0228 UJ	0.0177 UJ	77.0	HH	110	HH
2,4-Dimethylphenol	0.201 UJ	0.183 UJ	0.182 UJ	0.183 UJ	-	-	-	0.224 UJ	0.174 UJ	42.0	Eco	42.0	Eco
2,4-Dinitrophenol	0.227 UJ	0.207 UJ	0.206 UJ	0.207 UJ	-	-	-	0.253 UJ	0.197 UJ	19.0	Eco	19.0	Eco
2,4-Dinitrotoluene	0.0631 U	0.0575 U	0.0570 U	0.0573 U	0.0592 U	0.0602 U	0.0564 U	0.0703 U	0.0545 U	0.110	HH	0.220	HH
2,6-Dinitrotoluene	0.0418 U	0.0381 U	0.0377 U	0.0380 U	0.0392 U	0.0398 U	0.0374 U	0.0465 U	0.0361 U	230	Eco	37.0	HH
2-Chloronaphthalene	0.00527 U	0.00481 U	0.00477 U	0.00480 U	0.00495 U	0.00503 U	0.00472 U	0.00588 U	0.00456 U	32.0	Eco	32.0	Eco
2-Chlorophenol	0.0463 UJ	0.0422 UJ	0.0418 UJ	0.0421 UJ	-	-	-	0.0515 UJ	0.0400 UJ	81.0	HH	180	HH
2-Methylphenol	0.0430 UJ	0.0392 UJ	0.0388 UJ	0.0391 UJ	-	-	-	0.0479 UJ	0.0371 UJ	13.0	Eco	13.0	Eco
2-Nitroaniline	0.0329 U	0.0300 U	0.0297 U	0.0299 U	0.0309 U	0.0313 U	0.0294 U	0.0366 U	0.0284 U	-	-	370	HH
2-Nitrophenol	0.0470 UJ	0.0429 UJ	0.0425 UJ	0.0428 UJ	-	-	-	0.0524 UJ	0.0406 UJ	10,000	HH	11,000	HH
3,3'-Dichlorobenzidine	0.206 U	0.188 U	0.186 U	0.187 U	0.193 U	0.196 U	0.184 U	0.229 U	0.178 U	0.0210	HH	0.130	HH
3-Nitroaniline	0.0621 U	0.0566 U	0.0561 U	0.0564 U	0.0583 U	0.0592 U	0.0556 U	0.0692 U	0.0537 U	-	-	3.40	HH
4,6-Dinitro-2-methylphenol	0.341 UJ	0.311 UJ	0.308 UJ	0.310 UJ	-	-	-	0.379 UJ	0.294 UJ	13.0	HH	2.90	HH
4-Bromophenyl Phenyl Ether	0.0241 U	0.0219 U	0.0217 U	0.0219 U	0.0226 U	0.0230 U	0.0215 U	0.0268 U	0.0208 U	1.50	Eco	1.50	Eco
4-Chloro-3-methylphenol	0.0268 UJ	0.0244 UJ	0.0242 UJ	0.0244 UJ	-	-	-	0.0299 UJ	0.0232 UJ	-	-	3700	HH
4-Chloroaniline	0.0795 U	0.0724 U	0.0718 U	0.0722 U	0.0746 U	0.0758 U	0.0711 U	0.0885 UJ	0.0687 UJ	50.0	Eco	0.340	HH
4-Chlorophenyl Phenyl Ether	0.0354 U	0.0323 U	0.0320 U	0.0322 U	0.0332 U	0.0338 U	0.0317 U	0.0394 U	0.0306 U	-	-	-	-
4-Nitroaniline	0.0426 U	0.0389 U	0.0385 U	0.0388 U	0.0400 U	0.0407 U	0.0382 U	0.0475 U	0.0368 U	-	-	3.40	HH
4-Nitrophenol	0.130 UJ	0.118 UJ	0.117 UJ	0.118 UJ	-	-	-	0.144 UJ	0.112 UJ	150	Eco	150	Eco
Aniline	0.330 U	0.031 U	0.298 U	0.300 U	0.310 U	0.314 U	0.295 U	0.367 U	0.285 U	2.20	Eco	2.20	Eco
Benzidine	1.10 UJ	1.00 UJ	0.993 UJ	0.999 UJ	1.03 UJ	1.05 UJ	0.983 UJ	1.22 U	0.950 U	0.0000860	HH	0.720	HH
Benzoic Acid	0.147 UJ	0.134 UJ	0.133 UJ	0.134 UJ	-	-	-	0.164 UJ	0.127 UJ	42.0	Eco	42.0	Eco
Benzyl Alcohol	0.0467 UJ	**0.0500 J**	0.0422 UJ	0.0425 UJ	-	-	**0.0523 J**	0.0520 UJ	0.0404 UJ	8.60	Eco	8.60	Eco
Bis(2-chloroethoxy)methane	0.0199 U	0.0181 U	0.0180 U	0.0181 U	0.0187 U	0.0190 U	0.0178 U	0.0222 U	0.0172 U	-	-	110	HH
Bis(2-chloroethyl) Ether	0.0356 U	0.0325 U	0.0322 U	0.0324 U	0.0334 U	0.0340 U	0.0319 U	0.0397 U	0.0308 U	0.0300	HH	0.0120	HH
Bis(2-chloroisopropyl) Ether	0.0471 U	0.0430 U	0.0426 U	0.0429 U	0.0443 U	0.0450 U	0.0422 U	0.0525 U	0.0407 U	1,400	HH	-	-
Bis(2-ethylhexyl) Phthalate	0.419 U	0.382 U	0.378 U	**0.408 J**	0.393 U	0.399 U	0.375 U	0.466 U	0.362 U	1.20	HH	3.00	Eco
Butyl Benzyl Phthalate	**0.120 J**	**0.171 J**	**0.228 J**	**0.173 J**	**0.131 J**	0.102 U	**0.141 J**	0.119 U	0.285 U	19.0	Eco	19.0	Eco
Carbazole	0.0238 U	0.0217 U	0.0215 U	0.0217 U	0.0224 U	0.0227 U	0.0213 U	0.0266 U	0.0206 U	-	-	-	-
Dibenzofuran	**0.0237 J**	0.0205 U	0.0204 U	0.0205 U	0.0212 U	0.0215 U	0.0202 U	**0.0421 J**	0.0195 U	3.70	Eco	3.70	Eco
Diethyl Phthalate	0.0612 U	0.0558 U	0.0553 U	0.0556 U	0.0575 U	0.0584 U	0.0548 U	0.0682 U	0.0529 U	210	Eco	210	Eco
Dimethyl Phthalate	0.0429 U	0.0391 U	0.0387 U	0.0390 U	0.0402 U	0.0409 U	0.0383 U	0.0477 U	0.0370 U	3.00	Eco	3.00	Eco
Di-n-butyl Phthalate	**0.180 J**	**0.239**	0.608 U	**0.129 J**	**0.170 J**	**0.100 J**	**0.153 J**	0.245 U	0.190 U	35.0	Eco	35.0	Eco
Di-n-octyl Phthalate	0.0300 U	0.0274 U	0.0271 U	0.0273 U	0.0282 U	0.0286 U	0.0268 U	0.0334 U	0.0259 U	1.20	HH	4.10	HH
Hexachlorobenzene	0.0275 U	0.0251 U	0.0248 U	0.0250 U	0.0258 U	0.0262 U	0.0246 U	0.0306 U	0.0237 U	0.000280	HH	0.000300	Eco
Hexachlorobutadiene	0.0162 U	0.0147 U	0.0146 U	0.0147 U	0.0152 U	0.0154 U	0.0145 U	0.0180 U	0.0140 U	0.440	HH	0.860	HH
Hexachlorocyclopentadiene	0.341 U	0.311 U	0.308 UJ	0.310 U	0.320 U	0.325 U	0.305 U	0.379 UJ	0.294 UJ	5.20	Eco	5.20	Eco
Hexachloroethane	0.0419 U	0.0382 U	0.0378 U	0.0381 U	0.0393 U	0.0399 U	0.0375 U	0.0466 U	0.0362 U	1.40	HH	4.10	HH
Isophorone	0.0311 U	0.0284 U	0.0281 U	0.0283 U	0.0292 U	0.0297 U	0.0278 U	**0.0842 J**	**0.0486 J**	35.0	HH	71.0	HH
Nitrobenzene	0.0571 U	0.0521 U	0.0516 U	0.0519 U	0.0537 U	0.0545 U	0.0511 U	0.0636 U	0.0494 U	17.0	HH	0.120	HH
N-Nitrosodimethylamine	1.10 UJ	1.00 UJ	0.993 U	0.999 UJ	1.03 UJ	1.05 UJ	0.983 UJ	1.22 U	0.950 U	0.000690	HH	0.000420	HH
N-Nitrosodi-n-propylamine	0.0405 U	0.0370 U	0.0366 U	0.0369 U	0.0381 U	0.0387 U	0.0363 U	0.0452 U	0.0350 U	0.00500	HH	0.00960	HH
N-Nitrosodiphenylamine	0.00934 U	0.00852 U	0.00844 U	0.00849 U	0.00877 U	0.00891 U	0.00836 U	0.0104 U	0.00807 U	3.30	HH	14.0	HH
p-cresol (4-Methylphenol)	0.0485 UJ	0.0442 UJ	0.0438 UJ	0.0441 UJ	-	-	-	0.0540 UJ	0.0419 UJ	-	-	-	-
Pentachlorophenol	0.220 UJ	0.200 UJ	0.199 UJ	0.200 UJ	-	-	-	0.245 UJ	0.190 UJ	0.270	HH	0.470	HH
Phenol	**0.0276 J**	**0.0291 J**	0.00457 UJ	**0.0228 J**	**0.0192 J**	**0.0111 J**	-	0.00563 UJ	0.00437 UJ	110	Eco	110	Eco
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/L)													
2-Methylnaphthalene	**0.0683 J**	**0.153**	0.0148 U	0.0149 U	**0.0195 J**	**0.0210 J**	**0.0258 J**	**0.114**	0.0142 U	72.2	Eco	72.2	Eco
Acenaphthene	**0.0173 J**	**0.00812 J**	0.00338 U	0.00340 U	**0.00547 J**	0.00356 U	**0.00811 J**	**0.0230 J**	0.00323 U	520	Eco	520	Eco
Acenaphthylene	0.00264 U	0.00240 U	0.00238 U	0.00240 U	0.00248 U	0.00252 U	0.00236 U	0.00294 U	0.00228 U	307	Eco	0.140	HH
Anthracene	0.00209 U	0.00190 U	0.00189 U	0.00190 U	0.00196 U	0.00199 U	0.00187 U	**0.0126 J**	0.00180 U	13.0	Eco	13.0	Eco
Fluorene	**0.0210 J**	**0.00982 J**	0.00169 U	**0.00584 J**	**0.00835 J**	0.00178 U	**0.0157 J**	**0.0351**	0.00161 U	3.90	Eco	3.90	Eco
Naphthalene	0.0191 UJ	0.0174 UJ	**0.0222 J**	0.0174 U	**0.0254 J**	**0.0359 J**	0.0171 U	**0.0452 J**	0.0165 U	620	Eco	0.140	HH
Phenanthrene	**0.0198 J**	**0.0140 J**	**0.00759 J**	**0.0111 J**	**0.00975 J**	**0.00795 J**	**0.00849 J**	**0.144**	0.00351 U	6.30	Eco	0.140	HH
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/L)													
Benzo(a)anthracene	0.00571 U	0.00521 U	0.00516 U	0.00519 U	0.00537 U	0.00545 U	0.00511 U	0.00636 U	0.00494 U	0.00380	HH	0.0270	Eco
Benzo(a)pyrene	0.00363 U	0.00331 U	0.00328 U	0.00330 U	0.00341 U	0.00346 U	0.00324 U	**0.00895 J**	0.00313 U	0.00380	HH	0.00290	HH
Benzo(g,h,i)perylene	0.00560 U	0.00511 U	0.00506 U	0.00509 U	0.00526 U	0.00535 U	0.00501 U	0.00624 U	0.00484 U	0.380	HH	0.290	HH
Benzofluoranthenes, Total	0.0131 U	0.0119 U	0.0118 U	0.0119 U	0.0123 U	0.0125 U	0.0117 U	**0.0173 J**	0.0113 U	0.00380	HH	0.01400	Eco
Chrysene	0.00923 U	0.00842 U	0.00834 U	0.00839 U	0.00867 U	0.00881 U	0.00826 U	0.0103 U	0.00798 U	0.00380	HH	2.04	Eco
Dibenz(a,h)anthracene	0.00341 U	0.00311 U	0.00308 U	0.00310 U	0.00320 U	0.00325 U	0.00305 U	**0.00671 J**	0.00294 U	0.0180	HH	0.00290	HH
Fluoranthene	0.00626 U	0.00571 U	0.00566 U	0.00569 U	0.00588 U	0.00597 U	0.00560 U	**0.0311**	0.00541 U	6.16	Eco	6.16	Eco
Indeno(1,2,3-cd)pyrene	0.00308 UJ	0.00281 UJ	0.00278 U	0.00280 UJ	0.00289 UJ	0.00294 UJ	0.00275 UJ	**0.00797 J**	0.00266 U	0.00380	HH	0.0290	HH
Pyrene	0.00319 U	0.00291 U	0.00288 U	**0.00317 J**	**0.00329 J**	0.00304 U	0.00285 U	**0.0261**	0.00275 U	10.1	Eco	10.1	Eco

Notes:

µg/L = microgram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed

-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-5g
2004 Sandblast Supplemental Site Inspection Groundwater Analytical Results
Dissolved Semivolatile Organic Compounds

Site ID	DP1	DP10	DP2	DP3*	DP4	DP5*	DP7	DP9	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	041116SGA01GW	041118SGA06GW	041117SGA02GW	041117SGA03GW	041117SGA05GW	041118SGA07GW	041119SGA09GW	041119SGA10GW				
Sample Date	11/16/2004	11/17/2004	11/17/2004	11/17/2004	11/17/2004	11/17/2004	11/19/2004	11/19/2004				
Sample Depth (Feet bgs)	12.0-17.0	7.8-12.8	12.0-17.0	11.0-16.0	13.0-18.0	18.5-28.5	12.9-17.9	10.0-20.0				
Dissolved Semivolatile Organic Compounds (µg/L)												
1,2,4-Trichlorobenzene	0.0123 U	0.0125 U	0.0129 U	0.0127 U	0.0120 U	0.0121 U	0.0134 U	0.0139 UJ	35.0	HH	2.30	HH
1,2-Dichlorobenzene	0.0279 U	0.0282 U	0.0292 U	0.0287 U	0.0272 U	0.0273 U	0.0303 U	0.0313 U	14.0	Eco	14.0	Eco
1,3-Dichlorobenzene	0.0368 U	0.0373 U	0.0385 U	0.0379 U	0.0359 U	0.0361 U	0.0400 U	0.0413 U	71.0	Eco	0.420	HH
1,4-Dichlorobenzene	0.0317 U	0.0321 U	0.0332 U	0.0326 U	0.0310 U	0.0311 U	0.0344 U	0.0356 U	15.0	Eco	0.420	HH
2,4,5-Trichlorophenol	-	-	0.0465 U	0.0457 UJ	-	-	-	0.0499 UJ	18.0	Eco	18.0	Eco
2,4,6-Trichlorophenol	-	-	0.0337 U	0.0331 UJ	-	-	-	0.0361 UJ	1.40	HH	5.20	HH
2,4-Dichlorophenol	-	-	0.0195 U	0.0192 UJ	-	-	-	0.0209 UJ	77.0	HH	110	HH
2,4-Dimethylphenol	-	-	0.192 U	0.189 UJ	-	-	-	0.206 UJ	42.0	Eco	42.0	Eco
2,4-Dinitrophenol	-	-	0.217 U	0.214 UJ	-	-	-	0.233 UJ	19.0	Eco	19.0	Eco
2,4-Dinitrotoluene	0.0576 U	0.0583 U	0.0602 U	0.0592 U	0.0562 U	0.0564 U	0.0625 U	0.0646 U	0.110	HH	0.220	HH
2,6-Dinitrotoluene	0.0381 U	0.0386 U	0.0399 U	0.0392 U	0.0372 U	0.0374 U	0.0414 U	0.0428 U	230	Eco	37.0	HH
2-Chloronaphthalene	0.00481 U	0.00487 U	0.00504 U	0.00495 U	0.00470 U	0.00472 U	0.00523 U	0.00541 U	32.0	Eco	32.0	Eco
2-Chlorophenol	-	-	0.0442 U	0.0434 UJ	-	-	-	0.0474 UJ	81.0	HH	180	HH
2-Methylphenol	-	-	0.0410 U	0.0404 UJ	-	-	-	0.0440 UJ	13.0	Eco	13.0	Eco
2-Nitroaniline	0.0300 U	0.0304 U	0.0314 U	0.0309 U	0.0293 U	0.0294 U	0.0326 U	0.0337 U	-	-	370	HH
2-Nitrophenol	-	-	0.0449 U	0.0442 UJ	-	-	-	0.0482 UJ	10,000	HH	11,000	HH
3,3'-Dichlorobenzidine	0.188 U	0.190 U	0.196 U	0.193 U	0.183 U	0.184 U	0.204 U	0.211 U	0.0210	HH	0.130	HH
3-Nitroaniline	0.0567 U	0.0574 U	0.0593 U	0.0583 U	0.0553 U	0.0556 U	0.0615 U	0.0636 U	-	-	3.40	HH
4,6-Dinitro-2-methylphenol	-	-	0.325 U	0.320 UJ	-	-	-	0.349 UJ	13.0	HH	2.90	HH
4-Bromophenyl Phenyl Ether	0.0220 U	0.0222 U	0.0230 U	0.0226 U	0.0214 U	0.0215 U	0.0239 U	0.0247 U	1.50	Eco	1.50	Eco
4-Chloro-3-methylphenol	-	-	0.0256 U	0.0252 UJ	-	-	-	0.0275 UJ	-	-	3700	HH
4-Chloroaniline	0.0725 U	0.0734 U	0.0759 U	0.0746 U	0.0708 U	0.0711 U	0.0788 UJ	0.0814 UJ	50.0	Eco	0.340	HH
4-Chlorophenyl Phenyl Ether	0.0323 U	0.0327 U	0.0338 U	0.0332 U	0.0315 U	0.0317 U	0.0351 U	0.0363 U	-	-	-	-
4-Nitroaniline	0.0389 U	0.0394 U	0.0407 U	0.0400 U	0.0380 U	0.0382 U	0.0423 U	0.0437 U	-	-	3.40	HH
4-Nitrophenol	-	-	0.124 U	0.122 UJ	-	-	-	0.133 UJ	150	Eco	150	Eco
Benzidine	1.00 UJ	1.02 UJ	1.05 UJ	1.03 UJ	0.979 UJ	0.983 UJ	1.09 U	1.13 U	0.0000860	HH	0.720	HH
Benzoic Acid	-	-	0.141 U	0.138 UJ	-	**0.317 J**	-	0.151 UJ	42.0	Eco	42.0	Eco
Benzyl Alcohol	-	-	0.0446 U	0.0439 UJ	-	-	-	0.0479 UJ	8.60	Eco	8.60	Eco
Bis(2-chloroethoxy)methane	0.0182 U	0.0184 U	0.0190 U	0.0187 U	0.0177 U	0.0178 U	0.0197 U	0.0204 U	-	-	110	HH
Bis(2-chloroethyl) Ether	0.0325 U	0.0329 U	0.0340 U	0.0334 U	0.0317 U	0.0319 U	0.0353 U	0.0365 U	0.0300	HH	0.0120	HH
Bis(2-chloroisopropyl) Ether	0.0430 U	0.0436 U	0.0450 U	0.0443 U	0.0420 U	0.0422 U	0.0467 U	0.0483 U	1,400	HH	-	-
Bis(2-ethylhexyl) Phthalate	0.382 U	0.387 U	0.400 U	0.393 U	0.373 U	0.375 U	0.415 U	0.429 U	1.20	HH	3.00	Eco
Butyl Benzyl Phthalate	**0.117 J**	**0.108 J**	**0.154 J**	**0.155 J**	**0.135 J**	**0.137 J**	0.327 U	0.338 U	19.0	Eco	19.0	Eco
Carbazole	0.0218 U	0.0220 U	0.0228 U	0.0224 U	0.0213 U	0.0213 U	0.0236 U	0.0244 U	-	-	-	-
Dibenzofuran	0.0206 U	0.0208 U	0.0215 U	0.0212 U	0.0201 U	0.0202 U	0.0223 U	0.0231 U	3.70	Eco	3.70	Eco
Diethyl Phthalate	**0.0585 J**	0.0565 U	0.0584 U	0.0575 U	0.0546 U	0.0548 U	**0.101 J**	**0.0687 J**	210	Eco	210	Eco
Dimethyl Phthalate	0.0391 U	0.0396 U	0.0409 U	0.0402 U	0.0382 U	0.0383 U	0.0425 U	0.0439 U	3.00	Eco	3.00	Eco
Di-n-butyl Phthalate	**0.130 J**	**0.124 J**	**0.207 J**	**0.177 J**	**0.148 J**	**0.157 J**	0.218 U	0.275 U	35.0	Eco	35.0	Eco
Di-n-octyl Phthalate	0.0274 U	0.0277 U	0.0286 U	0.0282 U	0.0267 U	0.0268 U	0.0297 U	0.0307 U	1.20	HH	4.10	HH
Hexachlorobenzene	0.0251 U	0.0254 U	0.0262 U	0.0258 U	0.0245 U	0.0246 U	0.0272 U	0.0282 U	0.000280	HH	0.000300	Eco
Hexachlorobutadiene	0.0147 U	0.0149 U	0.0154 U	0.0152 U	0.0144 U	0.0145 U	0.0160 U	0.0166 U	0.440	HH	0.860	HH
Hexachlorocyclopentadiene	0.311 U	0.315 U	0.325 U	0.320 U	0.304 U	0.305 U	0.338 UJ	0.349 UJ	5.20	Eco	5.20	Eco
Hexachloroethane	0.0382 U	0.0387 U	0.0400 U	0.0393 U	0.0373 U	0.0375 U	0.0415 U	0.0429 U	1.40	HH	4.10	HH
Isophorone	0.0284 U	0.0287 U	0.0297 U	0.0292 U	0.0277 U	0.0278 U	**0.0782 J**	**0.0483 J**	35.0	HH	71.0	HH
Nitrobenzene	0.0522 U	0.0528 U	0.0546 U	0.0537 U	0.0509 U	0.0511 U	0.0566 U	0.0586 U	17.0	HH	0.120	HH
N-Nitrosodimethylamine	1.00 UJ	1.02 UJ	1.05 UJ	1.03 UJ	0.979 UJ	0.983 UJ	1.09 U	1.13 U	0.000690	HH	0.000420	HH
N-Nitrosodi-n-propylamine	0.0370 U	0.0375 U	0.0387 U	0.0381 U	0.0361 UJ	0.0363 U	0.0402 U	0.0416 U	0.00500	HH	0.00960	HH
N-Nitrosodiphenylamine	0.00853 U	0.00863 U	0.00892 U	0.00877 U	0.00833 U	0.00836 U	0.00926 U	0.00957 U	3.30	HH	14.0	HH
p-cresol (4-Methylphenol)	-	-	0.0463 U	0.0455 UJ	-	-	-	0.0497 UJ	-	-	-	-
Pentachlorophenol	-	-	0.210 U	0.206 UJ	-	-	-	0.225 UJ	0.270	HH	0.470	HH
Phenol	-	-	0.00483 U	**0.0192 J**	**0.00999 J**	-	-	**0.0248 J**	110	Eco	110	Eco
Dissolved Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/L)												
2-Methylnaphthalene	**0.0158 J**	**0.280**	**0.193**	**0.0176 J**	**0.0369 J**	0.0147 U	**0.0203 J**	0.0168 U	72.2	Eco	72.2	Eco
Acenaphthene	**0.00491 J**	0.00345 U	**0.0104 J**	**0.00547 J**	0.00333 U	0.00334 U	**0.0348**	**0.0175 J**	520	Eco	520	Eco
Acenaphthylene	0.00241 U	0.00244 U	**0.00361 J**	0.00248 U	0.00235 U	0.00236 U	0.00261 U	0.00270 U	307	Eco	0.140	HH
Anthracene	0.00191 U	0.00193 U	0.00199 U	0.00196 U	0.00186 U	0.00187 U	0.00207 U	0.00214 U	13.0	Eco	13.0	Eco
Fluorene	**0.00731 J**	**0.00691 J**	**0.0116 J**	**0.00654 J**	**0.00714 J**	0.00167 U	0.00185 U	0.00191 U	3.90	Eco	3.90	Eco
Naphthalene	**0.0399 J**	**0.200**	**0.151**	**0.0350 J**	**0.186**	**0.0289 J**	0.0190 U	0.0196 U	620	Eco	0.140	HH
Phenanthrene	**0.00957 J**	**0.00801 J**	**0.0190 J**	**0.0111 J**	**0.0157 J**	**0.00427 J**	0.00403 U	0.00417 U	6.30	Eco	0.140	HH
Dissolved High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/L)												
Benzo(a)anthracene	0.00522 U	0.00528 U	0.00546 U	0.00537 U	0.00509 U	0.00511 U	0.00566 U	0.00586 U	0.00380	HH	0.0270	Eco
Benzo(a)pyrene	0.00331 U	0.00335 U	0.00346 U	0.00341 U	0.00323 U	0.00324 U	**0.00714 J**	0.00372 U	0.00380	HH	0.00290	HH
Benzo(g,h,i)perylene	0.00512 U	0.00518 U	0.00535 U	0.00526 U	0.00500 U	0.00501 U	0.00556 U	0.00574 U	0.380	HH	0.290	HH
Benzofluoranthenes, Total	0.0119 U	0.0121 U	0.0125 U	0.0123 U	0.0117 U	0.0117 U	0.0130 U	0.0134 U	0.00380	HH	0.01400	Eco
Chrysene	0.00843 U	0.00853 U	0.00881 U	0.00867 U	0.00823 U	0.00826 U	0.00915 U	0.00946 U	0.00380	HH	2.04	Eco
Dibenz(a,h)anthracene	0.00311 U	0.00315 U	0.00325 U	0.00320 U	0.00304 U	0.00305 U	**0.00381 J**	0.00349 U	0.0180	HH	0.00290	HH
Fluoranthene	0.00572 U	0.00579 U	0.00598 U	0.00588 U	0.00558 U	0.00560 U	0.00621 U	0.00642 U	6.16	Eco	6.16	Eco
Indeno(1,2,3-cd)pyrene	0.00281 UJ	0.00284 UJ	0.00294 UJ	0.00289 UJ	0.00274 UJ	0.00275 UJ	**0.00630 J**	0.00315 U	0.00380	HH	0.0290	HH
Pyrene	0.00291 U	0.00294 U	0.00304 U	0.00299 U	0.00284 U	0.00285 U	0.00316 U	0.00327 U	10.1	Eco	10.1	Eco

Notes:

µg/L = microgram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed

-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-6
2002 Pistol Range Preliminary Assessment/Site Investigation Soil Analytical Results
Metals in mg/kg

			Analyte	Antimony	Arsenic	Copper	Lead	Mercury	Nickel	Zinc
			Selected SLV (0-3 ft bgs)	0.270	5.40	56.7	25.5	0.0660	38.0	71.7
			SLV Source (0-3 ft bgs)	Eco	UPL	UPL	UPL	UPL	Eco	UPL
Site ID	**Sample ID**	**Sample Date**	**Depth** (Feet bgs)							
PFR01	021119PFR01SS	11/19/2002	0.0-0.5	-	-	**52.3**	**185**	0.0500 U	**24.0 J**	**164**
PFR01	021119PFR02SS	11/19/2002	1.0-1.5	-	-	**46.8**	**37.0**	0.0600 U	**21.0 J**	**95.0**
PFR03	021119PFR03SS	11/19/2002	0.0-0.5	6.00 UJ	6.00 U	**46.8 J**	**758**	0.0500 U	**21.0 J**	**199**
PFR04	021119PFR04SS	11/19/2002	0.0-0.5	-	-	**46.0**	**84.0**	0.0600 U	**26.0 J**	**95.0**
PFR04	021119PFR05SS	11/19/2002	1.0-1.5	-	-	**50.2**	**30.0**	0.0600 U	**26.0 J**	**74.0**
PFR06	021119PFR06SS	11/19/2002	0.0-0.5	-	-	**38.7**	**124**	0.0500 U	**20.0 J**	**121**
PFR06	021119PFR07SS	11/19/2002	1.0-1.5	-	-	**46.4**	**160**	0.0600 U	**23.0 J**	**140**
PFR08	021119PFR08SS	11/19/2002	0.0-0.5	-	-	**37.6**	**269**	0.0600 U	**19.0 J**	**168**
PFR08	021119PFR09SS	11/19/2002	1.0-1.5	-	-	**53.1**	**48.0**	0.0500 U	**25.0 J**	**80.0**
PFR10	021119PFR10SS	11/19/2002	0.0-0.5	-	-	**46.5**	**78.0**	0.0600 U	**32.0 J**	**106**
PFR12	021119PFR12SS	11/19/2002	0.0-0.5	-	-	-	**81.0**	-	-	-
PFR12	021119PFR13SS	11/19/2002	1.0-1.5	-	-	-	**42.0**	-	-	-
PFR14	021119PFR14SS	11/19/2002	0.0-0.5	-	-	-	**98.0**	-	-	-
PFR14	021119PFR15SS	11/19/2002	1.0-1.5	-	-	-	**16.0**	-	-	-
PFR16	021119PFR16SS	11/19/2002	0.0-0.5	-	-	-	**52.0**	-	-	-
PFR17*	021119PFR17SS	11/19/2002	0.0-0.5	-	-	-	**36.5**	-	-	-
PFR17	021119PFR19SS	11/19/2002	1.0-1.5	-	-	-	**11.0**	-	-	-
PFR20*	021119PFR20SS	11/19/2002	0.0-0.5	-	-	-	**78.0**	-	-	-
PFR22	021119PFR22SS	11/19/2002	0.0-0.5	-	-	-	**39.0**	-	-	-
PFR22	021119PFR23SS	11/19/2002	1.0-1.5	-	-	-	**18.0**	-	-	-
PFR24	021119PFR24SS	11/19/2002	0.0-0.5	-	-	-	**60.0**	-	-	-
PFR25	021119PFR25SS	11/19/2002	0.0-0.5	-	-	-	**56.0**	-	-	-
PFR25	021119PFR26SS	11/19/2002	1.0-1.5	-	-	-	**24.0**	-	-	-
PFR27*	021119PFR27SS	11/19/2002	0.0-0.5	-	-	-	**45.0**	-	-	-
PFR29	021119PFR29SS	11/19/2002	0.0-0.5	-	-	-	**95.0**	-	-	-
PFR29	021119PFR30SS	11/19/2002	1.0-1.5	-	-	-	**57.0**	-	-	-
PFR31	021119PFR31SS	11/19/2002	0.0-0.5	-	-	-	**93.0**	-	-	-
PFR32	021119PFR32SS	11/19/2002	0.0-0.5	-	-	-	**59.0**	-	-	-
PFR32	021119PFR33SS	11/19/2002	1.0-1.5	-	-	-	**25.0**	-	-	-
PFR34	021119PFR34SS	11/19/2002	0.0-0.5	-	-	-	**156**	-	-	-
PFR35	021119PFR35SS	11/19/2002	0.0-0.5	-	-	-	**176**	-	-	-
PFR35	021119PFR37SS	11/19/2002	1.0-1.5	-	-	-	**21.0**	-	-	-
PFR38	021119PFR38SS	11/19/2002	0.0-0.5	-	-	-	**171**	-	-	-
PFR39	021119PFR39SS	11/19/2002	0.0-0.5	-	-	-	**527**	-	-	-
PFR39	021119PFR40SS	11/19/2002	1.0-1.5	-	-	-	**573**	-	-	-
PFR41	021119PFR41SS	11/19/2002	0.0-0.5	-	-	-	**733**	-	-	-
PFR42	021119PFR42SS	11/19/2002	0.0-0.5	-	-	-	**266**	-	-	-
PFR42	021119PFR43SS	11/19/2002	1.0-1.5	-	-	-	**43.0**	-	-	-
PFR44	021121PFR44SS	11/21/2002	0.0-0.5	-	-	-	**756**	-	-	-
PFR45	021121PFR45SS	11/21/2002	0.0-0.5	-	-	-	**761**	-	-	-
PFR45	021121PFR46SS	11/21/2002	1.0-1.5	-	-	-	**694**	-	-	-
PFR47	021121PFR47SS	11/21/2002	0.0-0.5	-	-	-	**543**	-	-	-
PFR48	021121PFR48SS	11/21/2002	0.0-0.5	5.00 UJ	5.00 U	**16.5 J**	**915**	-	-	-
PFR48	021121PFR49SS	11/21/2002	1.0-1.5	5.00 UJ	5.00 U	**19.0 J**	**835**	-	-	-
PFR50	021121PFR50SS	11/21/2002	0.0-0.5	5.00 UJ	5.00 U	**18.3 J**	**817**	-	-	-
PFR50	021121PFR51SS	11/21/2002	1.0-1.5	5.00 UJ	5.00 U	**15.6 J**	**1,110**	-	-	-
PFR52*	021121PFR52SS	11/21/2002	0.0-0.5	-	-	-	**60.5**	-	-	-
PFR52	021121PFR54SS	11/21/2002	1.0-1.5	-	-	-	**61.0**	-	-	-
PFR55	021121PFR55SS	11/21/2002	0.0-0.5	-	-	-	**46.0**	-	-	-
PFR56	021121PFR56SS	11/21/2002	0.0-0.5	-	-	-	**391**	-	-	-
PFR56	021121PFR57SS	11/21/2002	1.0-1.5	-	-	-	**410**	-	-	-
PFR58	021121PFR58SS	11/21/2002	0.0-0.5	-	-	-	**31.0**	-	-	-
PFR59	021121PFR59SS	11/21/2002	0.0-0.5	-	-	-	**19.0**	-	-	-
PFR60	021121PFR60SS	11/21/2002	0.0-0.5	-	-	-	**22.0**	-	-	-
PFR60	021121PFR61SS	11/21/2002	1.0-1.5	-	-	-	**28.0**	-	-	-
PFR62	021121PFR62SS	11/21/2002	0.0-0.5	-	-	-	**30.0**	-	-	-
PFR63	021121PFR63SS	11/21/2002	0.0-0.5	-	-	-	**15.0**	-	-	-
PFR63	021121PFR64SS	11/21/2002	1.0-1.5	-	-	-	**10.0**	-	-	-
PFR65*	021121PFR65SS	11/21/2002	0.0-0.5	-	-	-	**7.50**	0.0500 U	-	-
PFR67*	021121PFR67SS	11/21/2002	0.0-0.5	-	-	-	**29.5**	0.0600 U	-	-
PFR69*	021121PFR69SS	11/21/2002	0.0-0.5	-	-	-	**32.0**	0.0400 U	-	-
PFR71*	021121PFR71SS	11/21/2002	0.0-0.5	-	-	-	**26.0**	0.0600 U	-	-
PFR73	021121PFR73SS	11/21/2002	0.0-0.5	-	-	-	**45.0**	-	-	-

Notes:

mg/kg = milligram per kilogram
bgs = below ground surface
Eco = Ecological
MDL = method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 5-7
2002 Bulb Slope Reconnaissance Investigation Soil Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, and General Chemistry Parameters

Site ID	AREA A04	AREA A05	AREA B06	AREA B07	AREA C01	AREA C02*	AREA C08	AREA C09	PILE #3 BANK #1	PILE #3 BANK #2	PILE #3 BANK #3	PILE #3 BANK #4	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	021120BSA04SS	021120BSA05SS	021120BSB06SS	021120BSB07SS	021120BSC01SS	021120BSC02SS	021120BSC08SS	021120BSC09SS	020419P3B1SD	020419P3B2SD	020419P3B3SD	020419P3B4SD		
Sample Date	11/20/2002	11/20/2002	11/20/2002	11/20/2002	11/20/2002	11/20/2002	11/20/2002	11/20/2002	4/19/2002	4/19/2002	4/19/2002	4/19/2002		
Sample Depth (Feet bgs)	0.17-0.33	0.17-0.33	0.17-0.33	0.17-0.33	0.08-0.25	0.17-0.33	0.17-0.33	0.17-0.33	0.0	0.0	0.0	0.0		
PCB Aroclors (µg/kg)														
Aroclor 1016	20.0 U	19.0 U	19.0 U	20.0 U	20.0 U	19.0 U	20.0 U	20.0 U	67.0 U	67.0 U	67.0 U	67.0 U	371	Eco
Aroclor 1221	40.0 U	39.0 U	38.0 U	39.0 U	39.0 U	38.0 U	39.0 U	40.0 U	134 U	134 U	134 U	134 U	371	Eco
Aroclor 1232	20.0 U	19.0 U	19.0 U	20.0 U	20.0 U	19.0 U	20.0 U	20.0 U	67.0 U	67.0 U	67.0 U	67.0 U	371	Eco
Aroclor 1242	20.0 U	19.0 U	19.0 U	20.0 U	20.0 U	19.0 U	20.0 U	20.0 U	67.0 U	67.0 U	67.0 U	67.0 U	371	Eco
Aroclor 1248	20.0 U	19.0 U	19.0 U	20.0 U	20.0 U	19.0 U	20.0 U	20.0 U	67.0 U	67.0 U	67.0 U	67.0 U	371	Eco
Aroclor 1254	20.0 U	19.0 U	19.0 U	20.0 U	20.0 U	19.0 U	20.0 U	20.0 U	67.0 U	67.0 U	67.0 U	67.0 U	371	Eco
Aroclor 1260	**78.0**	**37.0**	**160**	**35.0**	**27.0**	19.0 U	**51.0**	20.0 U	67.0 U	**76.1**	67.0 U	**251**	371	Eco
Total PCBs as Aroclors (NDs at MDL) [1]	**78.0**	**37.0**	**160**	**35.0**	**27.0**	19.0 U	**51.0**	20.0 U	67.0 U	**76.1**	67.0 U	**251**	371	Eco
Metals (mg/kg)														
Lead	**234**	**202**	**444**	**170**	**67.0**	**47.5**	**142**	**25.0**	**196**	**247**	**289**	**597**	25.5	UPL
Mercury	**0.380**	**0.740**	**0.500**	**0.180**	**0.0600**	**0.0850**	**0.0500**	**0.130**	**0.150**	**0.584**	**0.452**	**1.54**	0.0660	UPL
Petroleum Hydrocarbons (mg/kg)														
Diesel Range Organics	**30.0**	**170**	**79.0**	**32.0**	**11.0**	**18.0**	**33.0**	**8.30**	-	-	-	-	23,000	HH
Residual Range Organics	**180**	**410**	**160**	**200**	**52.0**	**67.5**	**100**	**44.0**	-	-	-	-	40,000	HH
General Chemistry Parameters (mg/kg)														
Carbon, Total Organic	**54,200**	**69,200**	**43,600**	**38,900**	**24,400**	**17,200**	**19,400**	**18,100**	-	-	-	-	-	-
Solids, Total	**908,000**	**918,000**	**819,000**	**793,000**	**747,000**	**714,000**	**768,000**	**700,000**	**723,000**	**692,000**	**800,000**	**855,000**	-	-

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
ND = non detect
SLV = screening level value
UPL = Reference Area Upper Prediction Limit

[1] Only Aroclor 1260 was included in summing Total PCBs as Aroclors because all other aroclors were undected in Bulb Slope AOPC soil samples.
- = Not Analyzed
-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-1
Upland OU and River OU Enumeration of Samples Included in the
Bradford Island Remedial Investigation

Upland OU	Matrix									
	Soil (0-1 ft)	Soil (0-3 ft)	Soil (0-10 ft)	Soil (>10 ft)	Soil Gas	Groundwater	Groundwater - DP	Seep Water	Surface Water	Lagoon Sediment
Bulb Slope AOPC	**12**	**-**	-	-	-	-	-	-	-	-
Landfill AOPC	**32**	**44**	**58**	-	-	**57**	-	**5**	4	-
Pistol Range AOPC	**65**	**-**	-	-	-	-	**2**	-	-	**5**
Sandblast AOPC	**85**	**118**	**121**	**6**	5	**20**	**12**	**-**	-	**-**
Reference Area	**14**	**-**	-	-	-	**4**	-	-	-	-

River OU	Matrix						
	Sediment	Tissue					Surface Water
		Crayfish	Sculpin	Smallmouth Bass	Clam	Largescale Sucker	
Forebay	**19**	17	**17**	19	**19**	**1**	5
Forebay - Pre-Sediment Removal	5	-	-	-	4	-	-
Forebay - Eagle Creek	2	-	-	-	-	-	-
Forebay - Goose Island	**2**	1	**1**	-	1	-	-
Downstream	6	-	-	-	-	-	-
Reference	**18**	20	**18**	19	18	-	5

Notes:

Analytical suites are not the same for all samples

The number of samples listed in this table include both the samples used in this RI Report from the Historical Investigations (Section 5) and Recent Investigations (Section 6).

- = no samples collected in this area for this matrix

Table 6-10a
Post-Removal Forebay Area Crayfish Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, Metals, and Semivolatile Organic Compounds
(Page 1 of 3)

Area	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	Selected SLV	SLV Source
Site ID	P01-CF	P02-CF	P03-CF	P04-CF	P05-CF	P06-CF		
Sample ID	08021901CF	08021902CF	08022003CF	08021904CF	08021505CF	08021406CF		
Sample Date	2/19/2008	2/19/2008	2/20/2008	2/19/2008	2/15/2008	2/14/2008		
Percent Lipds	1.2	1.7	0.62	0.55	1.4	1.1		
PCB Aroclors (µg/kg wet)								
Aroclor 1016	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	0.570	HH
Aroclor 1221	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	0.570	HH
Aroclor 1232	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	0.570	HH
Aroclor 1242	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	0.570	HH
Aroclor 1248	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U	0.570	HH
Aroclor 1254	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	19.0 U	0.570	HH
Aroclor 1260	1.90 U	1.90 U	1.90 U	8.60 U	7.10 U	17.0 U	0.570	HH
Aroclor 1262	2.50 U	2.50 U	2.50 U	2.50 U	9.80 U	10.0 U	0.570	HH
Aroclor 1268	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	0.570	HH
Total PCBs as Aroclors (NDs at MDL) [1]	2.60 U	2.60 U	2.60 U	8.60 U	9.80 U	19.0 U	0.570	HH
PCB Dioxin-Like Congeners (µg/kg wet)								
PCB 77	**0.00376**	-	-	**0.00654**	**0.0148**	**0.0207**	0.0760	HH
PCB 81	0.000239 EMPC	-	-	**0.000446**	0.000823 EMPC	**0.00132**	0.0250	HH
PCB 105	**0.0146**	-	-	**0.0931**	**0.0566**	0.0863 EMPC	0.250	HH
PCB 114	**0.00661**	-	-	**0.351**	**0.355**	**0.804**	0.250	HH
PCB 118	**0.206**	-	-	**3.52**	**6.34**	**14.0**	0.250	HH
PCB 123	**0.00475**	-	-	**0.247**	**0.206**	**0.460**	0.250	HH
PCB 126	**0.000800**	-	-	0.00351 U	**0.00360**	**0.00783**	0.0000760	HH
PCB 156	**0.0382 C**	-	-	**2.28 C**	**1.62 C**	**3.91 C**	0.250	HH
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**						0.250	HH
PCB 167	**0.0230**	-	-	**1.18**	**0.629**	**1.53**	0.250	HH
PCB 169	0.000597 U	-	-	0.00295 U	0.00180 U	0.00120 U	0.000250	HH
PCB 189	**0.00269**	-	-	**0.0683**	**0.0414**	**0.0821**	0.250	HH
Total PCBs as Congeners (KM, capped)	**1.44 J**	-	-	**16.8 J**	**16.9 J**	**42.6 J**	0.570	HH
Metals (mg/kg wet)								
Aluminum	**94.3**	**157**	**96.6**	**106**	**149**	**139**	--	--
Antimony	**0.0210**	**0.0160**	**0.0500**	**0.0160**	**0.0630**	**0.133**	--	--
Arsenic	**0.610**	**0.680**	**0.420**	**0.550**	**0.640**	**0.520**	0.000760	HH
Barium	**72.2**	**75.6**	**68.5**	**62.1**	**84.3**	**80.4**	--	--
Beryllium	**0.00300 J**	**0.00380 J**	**0.00310 J**	**0.00410 J**	**0.00370 J**	**0.00330 J**	--	--
Cadmium	**0.193**	**0.210**	**0.101**	**0.129**	**0.137**	**0.149**	0.150	Eco
Chromium	**0.700**	**0.200**	**0.300**	**0.700**	**1.20**	**0.800**	--	--
Cobalt	**0.209**	**0.241**	**0.192**	**0.232**	**0.239**	**0.223**	--	--
Copper	**22.2 J**	**36.0 J**	**19.7 J**	**17.3 J**	**26.5 J**	**26.1 J**	--	--
Lead	**0.292 J**	**0.795 J**	**0.732 J**	**0.566 J**	**2.66 J**	**0.653 J**	0.120	Eco
Mercury	**0.0232**	**0.0218**	**0.0190**	**0.0167**	**0.0239**	**0.0251**	0.0490	HH
Methyl Mercury	**0.0370**	**0.0250**	**0.0310**	**0.0340**	**0.0360**	**0.0350**	--	--
Nickel	**4.83**	**4.48**	**4.31**	**4.72**	**5.34**	**4.68**	--	--
Thallium	**0.0177**	**0.0292**	**0.0149**	**0.0195**	**0.0258**	**0.0236**	--	--
Vanadium	**0.400**	**0.600**	**0.400**	**0.400**	**0.500**	**0.500**	--	--
Zinc	**23.2 J**	**21.0 J**	**19.3 J**	**21.6 J**	**22.8 J**	**21.6 J**	--	--
Semivolatile Organic Compounds (µg/kg wet)								
Bis(2-ethylhexyl) Phthalate	66.0 U	-	-	66.0 U	**67.0 J**	**67.0 J**	81.9	HH
Butyl Benzyl Phthalate	7.30 U	-	-	7.30 U	7.30 U	7.30 U	310	Eco
Carbazole	9.10 U	-	-	9.10 U	9.10 U	9.10 U	-	-
Di-n-butyl Phthalate	16.0 U	-	-	180 U	16.0 U	16.0 U	626	Eco
Di-n-octyl Phthalate	11.0 U	-	-	11.0 U	11.0 U	11.0 U	626	Eco
p-cresol (4-Methylphenol)	7.70 U	-	-	7.70 U	7.70 U	7.70 U	-	-
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg wet)								
Acenaphthene	0.110 U	-	-	0.110 U	**0.140 J**	**0.260 J**	15,000	HH
Anthracene	**0.0850 J**	-	-	0.0650 U	**0.160 J**	0.0650 U	15,000	HH
Fluorene	**0.160 J**	-	-	0.150 U	**0.150 J**	**0.210 J**	15,000	HH
Phenanthrene	**0.470**	-	-	0.360 U	**0.620**	**0.790**	15,000	HH
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg wet)								
Benzo(a)anthracene	**0.280 J**	-	-	0.0660 U	**0.290 J**	0.0660 U	1.57	HH
Benzo(a)pyrene	0.0810 U	-	-	**0.120 J**	0.0810 U	0.0810 U	0.157	HH
Benzo(b)fluoranthene	0.0700 U	-	-	0.0700 U	**0.100 J**	0.0700 U	1.57	HH
Benzo(g,h,i)perylene	0.0730 U	-	-	0.0730 U	0.0730 U	0.0730 U	15.7	HH
Benzo(k)fluoranthene	0.0560 U	-	-	0.0560 U	**0.110 J**	0.0560 U	15.7	HH
Chrysene	0.0760 U	-	-	0.0760 U	**0.200 J**	0.0760 U	157	HH
Dibenz(a,h)anthracene	0.0590 U	-	-	0.0590 U	0.0590 U	0.0590 U	0.157	HH
Fluoranthene	**0.260 J**	-	-	**0.210 J**	**0.400 J**	**0.540**	19,000	Eco
Indeno(1,2,3-cd)pyrene	0.0640 U	-	-	0.0640 U	0.0640 U	0.0640 U	1.57	HH
Pyrene	**0.270 J**	-	-	**0.170 J**	**0.410 J**	**0.470 J**	1,000	Eco

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
RDL = reported detection limit
- = Not Analyzed
-- = SLV for analyte not available
ND = Non Detect

[1] The crayfish Total PCBs as Aroclors is shown as the maximum MDL because all aroclors were undected in Forebay crayfish samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
bold = analyte detected above MDL/RDL.
= The reported concentration exceeds the selected SLV

Table 6-10a
Post-Removal Forebay Area Crayfish Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, Metals, and Semivolatile Organic Compounds
(Page 2 of 3)

Area	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	Selected SLV	SLV Source
Site ID	P07-CF	P08-CF	P13-CF	P14-CF	P15-CF	P16-CF		
Sample ID	08021407CF	08021408CF	08021413CF	08022014CF	08021915CF	08022216CF		
Sample Date	2/14/2008	2/14/2008	2/14/2008	2/20/2008	2/19/2008	2/22/2008		
Percent Lipds	0.61	0.74	0.82	0.58	0.87	1.1		
PCB Aroclors (µg/kg wet)								
Aroclor 1016	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	0.570	HH
Aroclor 1221	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	0.570	HH
Aroclor 1232	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	0.570	HH
Aroclor 1242	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	0.570	HH
Aroclor 1248	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U	0.570	HH
Aroclor 1254	1.90 U	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	0.570	HH
Aroclor 1260	4.00 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	0.570	HH
Aroclor 1262	2.60 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	0.570	HH
Aroclor 1268	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	0.570	HH
Total PCBs as Aroclors (NDs at MDL) [1]	4.00 U	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	0.570	HH
PCB Dioxin-Like Congeners (µg/kg wet)								
PCB 77	**0.0105**	**0.00433**	**0.00211**	**0.00174**	**0.00438**	**0.00514**	0.0760	HH
PCB 81	0.000361 U	0.000228 U	0.000215 U	0.000125 U	0.000273 U	0.000289 U	0.0250	HH
PCB 105	**0.134**	**0.0347**	0.00489 EMPC	0.00367 EMPC	**0.00746**	**0.0132**	0.250	HH
PCB 114	**0.121**	**0.0484**	**0.00370**	**0.00569**	**0.00407**	**0.00661**	0.250	HH
PCB 118	**4.40**	**0.847**	**0.0955**	**0.112**	**0.122**	**0.248**	0.250	HH
PCB 123	**0.0690**	**0.0302**	**0.00242**	**0.00581**	**0.00337**	**0.00682**	0.250	HH
PCB 126	0.00260 U	0.00130 U	**0.000306**	**0.000238**	**0.000468**	0.00110 U	0.0000760	HH
PCB 156	**0.655 C**	**0.211 C**	**0.0138 C**	**0.0263 C**	**0.0169 C**	**0.0280 C**	0.250	HH
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**						0.250	HH
PCB 167	**0.222**	**0.0971**	**0.00853**	**0.0228**	**0.0121**	**0.0215**	0.250	HH
PCB 169	0.00222 U	0.000487 U	0.000249 U	0.000257 U	0.000350 U	0.000539 U	0.000250	HH
PCB 189	**0.0160**	**0.00548**	**0.00117**	0.00162 EMPC	**0.00126**	0.00155 EMPC	0.250	HH
Total PCBs as Congeners (KM, capped)	**12.4 J**	**3.12 J**	**0.591 J**	**0.825 J**	**0.816 J**	**1.34 J**	0.570	HH
Metals (mg/kg wet)								
Aluminum	**71.4**	**114**	**92.8**	**92.8**	**100**	**78.3**	--	--
Antimony	**0.0150**	**0.0200**	**0.0110 J**	**0.00900 J**	**0.0110 J**	**0.0390**	--	--
Arsenic	**0.380**	**0.460**	**0.390**	**0.390**	**0.420**	**0.460**	0.000760	HH
Barium	**64.9**	**55.5**	**59.2**	**51.7**	**73.0**	**58.3**	--	--
Beryllium	**0.00260 J**	**0.00340 J**	**0.00260 J**	**0.00310 J**	**0.00300 J**	**0.00170 J**	--	--
Cadmium	**0.0870**	**0.0740**	**0.0650**	**0.0730**	**0.0830**	**0.0620**	0.150	Eco
Chromium	**0.500**	**0.800**	**0.600**	**0.700**	**1.00**	**0.300**	--	--
Cobalt	**0.211**	**0.236**	**0.213**	**0.247**	**0.245**	**0.262**	--	--
Copper	**15.5 J**	**20.3 J**	**15.6 J**	**18.8 J**	**18.9 J**	**14.8 J**	--	--
Lead	**0.334 J**	**0.649 J**	**0.130 J**	**0.0980 J**	**0.140 J**	**1.41 J**	0.120	Eco
Mercury	**0.0221**	**0.0215**	**0.0263**	**0.0244**	**0.0207**	**0.0208**	0.0490	HH
Methyl Mercury	**0.0290**	**0.0290**	**0.0340**	**0.0330**	**0.0250**	**0.0300**	--	--
Nickel	**5.35**	**4.83**	**4.96**	**4.71**	**4.80**	**4.41**	--	--
Thallium	**0.0117**	**0.0155**	**0.0146**	**0.0166**	**0.0166**	**0.0194**	--	--
Vanadium	**0.300**	**0.400**	**0.400**	**0.500**	**0.500**	**0.400**	--	--
Zinc	**19.5 J**	**20.9 J**	**19.9 J**	**21.4 J**	**20.3 J**	**16.9 J**	--	--
Semivolatile Organic Compounds (µg/kg wet)								
Bis(2-ethylhexyl) Phthalate	66.0 U	**110 J**	66.0 U	66.0 U	66.0 U	**88.0 J**	81.9	HH
Butyl Benzyl Phthalate	7.30 U	7.30 U	7.30 U	7.30 U	7.30 U	7.30 U	310	Eco
Carbazole	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U	-	-
Di-n-butyl Phthalate	58.0 U	16.0 U	39.0 U	48.0 U	16.0 U	16.0 U	626	Eco
Di-n-octyl Phthalate	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	626	Eco
p-cresol (4-Methylphenol)	7.70 U	7.70 U	7.70 U	7.70 U	7.70 U	7.70 U	-	-
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg wet)								
Acenaphthene	0.110 U	**0.130 J**	0.110 U	**0.140 J**	**0.200 J**	0.110 U	15,000	HH
Anthracene	0.0650 U	**0.0690 J**	0.0650 U	0.0650 U	**0.130 J**	0.0650 U	15,000	HH
Fluorene	0.150 U	**0.150 J**	0.150 U	0.150 U	**0.180 J**	0.150 U	15,000	HH
Phenanthrene	0.360 U	**0.510**	0.360 U	**0.460 J**	**0.860**	**0.510**	15,000	HH
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg wet)								
Benzo(a)anthracene	**0.230 J**	**0.260 J**	**0.260 J**	**0.270 J**	**0.350 J**	0.0660 U	1.57	HH
Benzo(a)pyrene	0.0810 U	0.0810 U	0.0810 U	0.0810 U	**0.170 J**	0.0810 U	0.157	HH
Benzo(b)fluoranthene	**0.0960 J**	**0.0980 J**	**0.110 J**	**0.140 J**	**0.220 J**	0.0700 U	1.57	HH
Benzo(g,h,i)perylene	0.0730 U	0.0730 U	**0.160 J**	**0.0980 J**	**0.390 J**	0.0730 U	15.7	HH
Benzo(k)fluoranthene	**0.0860 J**	**0.0980 J**	**0.0970 J**	**0.110 J**	**0.160 J**	0.0560 U	15.7	HH
Chrysene	**0.100 J**	**0.120 J**	0.0760 U	**0.140 J**	**0.310 J**	0.0760 U	157	HH
Dibenz(a,h)anthracene	0.0590 U	0.0590 U	0.0590 U	0.0590 U	0.0590 U	0.0590 U	0.157	HH
Fluoranthene	**0.170 J**	**0.260 J**	**0.230 J**	**0.300 J**	**0.750**	**0.360 J**	19,000	Eco
Indeno(1,2,3-cd)pyrene	0.0640 U	0.0640 U	0.0640 U	**0.160 J**	**0.180 J**	0.0640 U	1.57	HH
Pyrene	**0.160 J**	**0.290 J**	**0.280 J**	**0.340 J**	**1.20**	**0.280 J**	1,000	Eco

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
RDL = reported detection limit
- = Not Analyzed
-- = SLV for analyte not available
ND = Non Detect

[1] The crayfish Total PCBs as Aroclors is shown as the maximum MDL because all aroclors were undected in Forebay crayfish samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
bold = analyte detected above MDL/RDL.
= The reported concentration exceeds the selected SLV

Table 6-10a
Post-Removal Forebay Area Crayfish Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, Metals, and Semivolatile Organic Compounds
(Page 3 of 3)

Area	Forebay	Forebay	Forebay	Forebay	Forebay	Selected SLV	SLV Source
Site ID	P17-CF	P18-CF	P19-CF	P20-CF	P21-CF		
Sample ID	08021917CF	08021918CF	08021919CF	08021920CF	08021921CF		
Sample Date	2/19/2008	2/19/2008	2/19/2008	2/19/2008	2/19/2008		
Percent Lipds	0.48	0.73	0.93	0.71	0.72		
PCB Aroclors (µg/kg wet)							
Aroclor 1016	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	0.570	HH
Aroclor 1221	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	0.570	HH
Aroclor 1232	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	0.570	HH
Aroclor 1242	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	0.570	HH
Aroclor 1248	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U	0.570	HH
Aroclor 1254	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	0.570	HH
Aroclor 1260	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	0.570	HH
Aroclor 1262	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	0.570	HH
Aroclor 1268	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	0.570	HH
Total PCBs as Aroclors (NDs at MDL) [1]	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	0.570	HH
PCB Dioxin-Like Congeners (µg/kg wet)							
PCB 77	**0.00157**	**0.00412**	**0.00267**	**0.00338**	**0.00366**	0.0760	HH
PCB 81	0.000164 U	0.000313 EMPC	0.000218 U	**0.000211**	**0.000250**	0.0250	HH
PCB 105	**0.00636**	**0.00737**	**0.0111**	**0.0110**	**0.0127**	0.250	HH
PCB 114	**0.00214**	**0.00610**	0.00261 EMPC	**0.00361**	**0.00389**	0.250	HH
PCB 118	**0.0824**	**0.173**	**0.111**	**0.152**	**0.156**	0.250	HH
PCB 123	**0.00211**	**0.00506**	0.00311 EMPC	**0.00362**	**0.00400**	0.250	HH
PCB 126	0.000397 U	**0.000469**	0.000650 U	0.000748 U	0.000547 U	0.0000760	HH
PCB 156	**0.0136 C**	**0.0257 C**	**0.0139 C**	**0.0192 C**	**0.0191 C**	0.250	HH
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**					0.250	HH
PCB 167	**0.0118**	**0.0177**	**0.0120**	**0.0141**	**0.0144**	0.250	HH
PCB 169	0.000167 U	0.000254 U	0.000240 U	0.000298 U	0.000265 U	0.000250	HH
PCB 189	**0.000926**	**0.00158**	**0.000923**	0.00109 EMPC	**0.00123**	0.250	HH
Total PCBs as Congeners (KM, capped)	**0.536 J**	**1.12 J**	**0.766 J**	**0.911 J**	**0.967 J**	0.570	HH
Metals (mg/kg wet)							
Aluminum	**109**	**85.6**	**97.9**	**103**	**103**	--	--
Antimony	**0.0280**	**0.0190**	**0.0180**	**0.0100 J**	**0.0110 J**	--	--
Arsenic	**0.410**	**0.410**	**0.500**	**0.440**	**0.460**	0.000760	HH
Barium	**54.1**	**59.9**	**71.8**	**64.8**	**55.3**	--	--
Beryllium	**0.00380 J**	**0.00240 J**	**0.00350 J**	**0.00330 J**	**0.00340 J**	--	--
Cadmium	**0.0620**	**0.0610**	**0.128**	**0.118**	**0.0810**	0.150	Eco
Chromium	**0.600**	**0.700**	**0.800**	**0.600**	**0.700**	--	--
Cobalt	**0.245**	**0.235**	**0.227**	**0.237**	**0.261**	--	--
Copper	**10.5 J**	**13.0 J**	**20.4 J**	**17.4 J**	**20.0 J**	--	--
Lead	**0.754 J**	**0.577 J**	**0.249 J**	**0.0990 J**	**0.106 J**	0.120	Eco
Mercury	**0.0215**	**0.0206**	**0.0214**	**0.0157**	**0.0315**	0.0490	HH
Methyl Mercury	**0.0290**	**0.0280**	**0.0260**	**0.0270**	**0.0400**	--	--
Nickel	**5.09**	**4.62**	**4.75**	**4.44**	**4.49**	--	--
Thallium	**0.0152**	**0.0148**	**0.0214**	**0.0192**	**0.0167**	--	--
Vanadium	**0.500**	**0.400**	**0.400**	**0.400**	**0.400**	--	--
Zinc	**18.5 J**	**19.2 J**	**20.8 J**	**19.9 J**	**21.7 J**	--	--
Semivolatile Organic Compounds (µg/kg wet)							
Bis(2-ethylhexyl) Phthalate	66.0 U	66.0 U	66.0 U	66.0 U	66.0 U	81.9	HH
Butyl Benzyl Phthalate	7.30 U	7.30 U	7.30 U	7.30 U	7.30 U	310	Eco
Carbazole	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U	-	-
Di-n-butyl Phthalate	76.0 U	16.0 U	16.0 U	37.0 U	38.0 U	626	Eco
Di-n-octyl Phthalate	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	626	Eco
p-cresol (4-Methylphenol)	7.70 U	7.70 U	7.70 U	7.70 U	7.70 U	-	-
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg wet)							
Acenaphthene	0.110 U	0.110 U	**0.210 J**	**0.110 J**	0.110 U	15,000	HH
Anthracene	0.0650 U	0.0650 U	0.0650 U	0.0650 U	0.0650 U	15,000	HH
Fluorene	0.150 U	0.150 U	0.150 U	0.150 U	0.150 U	15,000	HH
Phenanthrene	**0.420 J**	**0.420 J**	0.360 U	0.360 U	**0.440 J**	15,000	HH
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg wet)							
Benzo(a)anthracene	**0.250 J**	**0.270 J**	**0.230 J**	0.0660 U	0.0660 U	1.57	HH
Benzo(a)pyrene	0.0810 U	0.0810 U	0.0810 U	0.0810 U	**0.160 J**	0.157	HH
Benzo(b)fluoranthene	0.0700 U	0.0700 U	0.0700 U	0.0700 U	**0.240 J**	1.57	HH
Benzo(g,h,i)perylene	0.0730 U	0.0730 U	0.0730 U	0.0730 U	**0.170 J**	15.7	HH
Benzo(k)fluoranthene	0.0560 U	0.0560 U	0.0560 U	0.0560 U	**0.150 J**	15.7	HH
Chrysene	**0.0850 J**	**0.110 J**	**0.0820 J**	0.0760 U	0.0760 U	157	HH
Dibenz(a,h)anthracene	0.0590 U	0.0590 U	0.0590 U	0.0590 U	0.0590 U	0.157	HH
Fluoranthene	**0.320 J**	**0.450 J**	**0.250 J**	**0.230 J**	**0.500**	19,000	Eco
Indeno(1,2,3-cd)pyrene	0.0640 U	0.0640 U	0.0640 U	0.0640 U	**0.180 J**	1.57	HH
Pyrene	**0.290 J**	**0.450 J**	**0.230 J**	**0.200 J**	**0.380 J**	1,000	Eco

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
RDL = reported detection limit
- = Not Analyzed
-- = SLV for analyte not available
ND = Non Detect

[1] The crayfish Total PCBs as Aroclors is shown as the maximum MDL because all aroclors were undected in Forebay crayfish samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
bold = analyte detected above MDL/RDL.
= The reported concentration exceeds the selected SLV

Table 6-10b
Post-Removal Reference Area Crayfish Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, Metals, and Semivolatile Organic Compounds
(Page 1 of 3)

Area	Reference	Reference	Reference	Reference	Reference	Reference
Site ID	P100-CF	P105-CF	P22-CF	P33-CF	P38/42-CF	P38-CF
Sample ID	080312100CF	080314105CF	08022622CF	08022233CF	08021838/42CF	08021838CF
Sample Date	3/12/2002	3/14/2002	2/26/2008	2/26/2008	2/18/2008	2/18/2008
Percent Lipds	0.76	0.70	0.48	0.68	-	0.44
PCB Aroclors (µg/kg wet)						
Aroclor 1016	2.40 U	3.00 U	2.40 U	2.40 U	-	4.60 U
Aroclor 1221	2.60 U	3.30 U	2.60 U	2.60 U	-	5.00 U
Aroclor 1232	2.30 U	2.90 U	2.30 U	2.30 U	-	4.40 U
Aroclor 1242	2.20 U	2.80 U	2.20 U	2.20 U	-	4.30 U
Aroclor 1248	0.510 U	0.640 U	0.510 U	0.510 U	-	0.980 U
Aroclor 1254	1.80 U	2.30 U	1.80 U	1.80 U	-	3.50 U
Aroclor 1260	1.90 U	2.40 U	1.90 U	1.90 U	-	3.70 U
Aroclor 1262	2.50 U	3.20 U	2.50 U	2.50 U	-	4.80 U
Aroclor 1268	2.00 U	2.50 U	2.00 U	2.00 U	-	3.90 U
Total PCBs as Aroclors (NDs at MDL) [1]	2.60 U	3.30 U	2.60 U	2.60 U	-	5.00 U
PCB Dioxin-Like Congeners (µg/kg wet)						
PCB 77	**0.00402**	-	**0.00130**	**0.00239**	**0.00288**	-
PCB 81	0.000193 EMPC	-	0.000135 U	**0.000176**	0.000175 U	-
PCB 105	**0.0118**	-	**0.00197**	**0.00762**	**0.00898**	-
PCB 114	**0.00458**	-	**0.00262**	**0.00320**	**0.00292**	-
PCB 118	**0.149**	-	**0.0526**	**0.0953**	**0.107**	-
PCB 123	**0.00417**	-	**0.00193**	**0.00271**	**0.00245**	-
PCB 126	**0.000481**	-	0.000207 U	0.000273 U	**0.000377**	-
PCB 156	**0.0244 C**	-	**0.0143 C**	**0.0147 C**	**0.0127 C**	-
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**					
PCB 167	**0.0180**	-	**0.00980**	**0.00944**	**0.00888**	-
PCB 169	0.000325 U	-	0.000180 U	0.000158 U	0.000126 U	-
PCB 189	**0.00165**	-	**0.00124**	**0.000956**	**0.000767**	-
Total PCBs as Congeners (KM, capped)	**0.946 J**	-	**0.366 J**	**0.634 J**	**0.719 J**	-
Metals (mg/kg wet)						
Aluminum	**124 J**	**94.2 J**	**134 J**	**73.8 J**	-	**115 J**
Antimony	**0.0120 J**	**0.00800 J**	**0.00900 J**	**0.0200**	-	**0.0130 J**
Arsenic	**0.349**	**0.378**	**0.343**	**0.363**	-	**0.275**
Barium	**65.8**	**40.2**	**54.8**	**44.7**	-	**61.2**
Beryllium	**0.00320 J**	**0.00310 J**	**0.00260 J**	**0.00330 J**	-	**0.00370 J**
Cadmium	**0.121**	**0.0760**	**0.0460**	**0.0480**	-	**0.0560**
Chromium	**0.780**	**0.120 J**	**1.23**	**0.310**	-	**0.170 J**
Cobalt	**0.280**	**0.261**	**0.336**	**0.372**	-	**0.347**
Copper	**17.6 J**	**19.6 J**	**16.8 J**	**13.9 J**	-	**13.9 J**
Lead	**0.541**	**0.183**	**0.201**	**0.282**	-	**0.317**
Mercury	**0.0183 J**	**0.0169 J**	**0.0142 J**	**0.0137 J**	-	**0.0172 J**
Methyl Mercury	**0.0264**	**0.0364**	**0.0295**	**0.0367**	-	**0.0239**
Nickel	**2.15**	**1.28**	**2.51**	**1.12**	-	**1.43**
Thallium	**0.0200**	**0.0140**	**0.0214**	**0.0214**	-	**0.0236**
Vanadium	**0.425**	**0.378**	**0.715**	**0.658**	-	**0.637**
Zinc	**19.7**	**20.6**	**18.5**	**18.0**	-	**21.4**
Semivolatile Organic Compounds (µg/kg wet)						
Bis(2-ethylhexyl) Phthalate	66.0 U	-	66.0 U	**70.0 J**	-	**69.0 J**
Butyl Benzyl Phthalate	7.30 U	-	7.30 U	7.30 U	-	7.30 U
Carbazole	9.10 U	-	9.10 U	9.10 U	-	9.10 U
Di-n-butyl Phthalate	39.0 U	-	80.0 U	50.0 U	-	92.0 U
Di-n-octyl Phthalate	11.0 U	-	**32.0 J**	11.0 U	-	11.0 U
p-cresol (4-Methylphenol)	7.70 U	-	7.70 U	7.70 U	-	7.70 U
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg wet)						
Acenaphthene	0.110 U	-	0.110 U	0.110 U	-	0.110 U
Anthracene	0.0650 U	-	0.0650 U	0.0650 U	-	0.0650 U
Fluorene	0.150 U	-	0.150 U	0.150 U	-	0.150 U
Phenanthrene	0.360 U	-	0.360 U	**0.460 J**	-	0.360 U
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg wet)						
Benzo(a)anthracene	0.0660 U	-	0.0660 U	0.0660 U	-	0.0660 U
Benzo(a)pyrene	0.0810 U	-	0.0810 U	0.0810 U	-	0.0810 U
Benzo(b)fluoranthene	0.0700 U	-	0.0700 U	0.0700 U	-	0.0700 U
Benzo(g,h,i)perylene	0.0730 U	-	0.0730 U	0.0730 U	-	0.0730 U
Benzo(k)fluoranthene	0.0560 U	-	0.0560 U	0.0560 U	-	0.0560 U
Chrysene	0.0760 U	-	0.0760 U	0.0760 U	-	0.0760 U
Dibenz(a,h)anthracene	0.0590 U	-	0.0590 U	0.0590 U	-	0.0590 U
Fluoranthene	0.490 U	-	0.490 U	0.490 U	-	0.500 U
Indeno(1,2,3-cd)pyrene	0.0640 U	-	0.0640 U	0.0640 U	-	0.0640 U
Pyrene	0.490 U	-	0.490 U	0.490 U	-	0.500 U

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
MDL = method detection limit
RDL = reported detection limit
ND = Non Detect
- = Not Analyzed
bold = analyte detected above MDL/RDL.
J = The reported value is an estimate.

[1] The crayfish Total PCBs as Aroclors is shown as the maximum MDL because all aroclors were undected in Reference Area crayfish samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.

Table 6-10b
Post-Removal Reference Area Crayfish Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, Metals, and Semivolatile Organic Compounds
(Page 2 of 3)

Area	Reference	Reference	Reference	Reference	Reference	Reference	Reference
Site ID	P42-CF	P72-CF	P73-CF	P74-CF	P75-CF	P76-CF	P78-CF
Sample ID	08022842CF	08030372CF	08030373CF	08030374CF	08030375CF	08030376CF	08030378CF
Sample Date	2/28/2008	3/3/2008	3/3/2008	3/3/2008	3/3/2008	3/3/2008	3/3/2008
Percent Lipds	1.0	0.80	1.0	0.55	0.37	0.70	0.82
PCB Aroclors (µg/kg wet)							
Aroclor 1016	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U
Aroclor 1221	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U
Aroclor 1232	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U
Aroclor 1242	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U
Aroclor 1248	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U
Aroclor 1254	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U
Aroclor 1260	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U
Aroclor 1262	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U
Aroclor 1268	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Total PCBs as Aroclors [1]	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U
PCB Dioxin-Like Congeners (µg/kg wet)							
PCB 77	-	**0.00262**	**0.00329**	**0.00299**	**0.00257**	**0.00187**	**0.00209**
PCB 81	-	0.000169 U	0.000161 EMPC	**0.000167**	0.000194 U	0.000127 U	0.000104 U
PCB 105	-	**0.00357**	**0.00603**	**0.0127**	**0.0106**	**0.00301**	**0.00334**
PCB 114	-	**0.00369**	**0.00351**	**0.00390**	**0.00364**	**0.00252**	**0.00236**
PCB 118	-	**0.0958**	**0.111**	**0.138**	**0.157**	**0.0636**	**0.0697**
PCB 123	-	**0.00247**	**0.00307**	**0.00376**	**0.00372**	**0.00196**	**0.00205**
PCB 126	-	**0.000450**	**0.000455**	0.000376 U	0.00196 U	0.000231 U	0.000267 U
PCB 156	-	**0.0173 C**	**0.0169 C**	**0.0188 C**	**0.0222 C**	**0.0123 C**	**0.0130 C**
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**						
PCB 167	-	**0.0106**	**0.0106**	**0.0136**	**0.0167**	**0.00846**	**0.00816**
PCB 169	-	0.0000992 U	0.000154 U	0.000103 U	0.000171 U	0.000105 U	0.0000911 U
PCB 189	-	**0.00133**	**0.00119**	**0.00104**	**0.00125**	**0.000851**	**0.000907**
Total PCBs as Congeners (KM, capped)	-	**0.692 J**	**0.735 J**	**0.774 J**	**0.952 J**	**0.456 J**	**0.496 J**
Metals (mg/kg wet)							
Aluminum	**115 J**	**221 J**	**141 J**	**131 J**	**137 J**	**110 J**	**177 J**
Antimony	**0.0390**	**0.0310**	**0.0260**	**0.0120 J**	**0.00800 J**	**0.0230**	**0.0150**
Arsenic	**0.397**	**0.636**	**0.460**	**0.420**	**0.287**	**0.356**	**0.401**
Barium	**53.4**	**120**	**70.7**	**47.7**	**47.4**	**85.7**	**81.4**
Beryllium	**0.00320 J**	**0.00610 J**	**0.00310 J**	**0.00390 J**	**0.00290 J**	**0.00260 J**	**0.00340 J**
Cadmium	**0.0720**	**0.201**	**0.0840**	**0.0840**	**0.0670**	**0.116**	**0.102**
Chromium	**0.470**	**0.590**	**0.280 J**	**0.140 J**	0.130 U	**0.160 J**	**0.280 J**
Cobalt	**0.339**	**0.387**	**0.358**	**0.397**	**0.297**	**0.248**	**0.356**
Copper	**18.2 J**	**33.2 J**	**19.3 J**	**18.3 J**	**13.1 J**	**17.6 J**	**19.8 J**
Lead	**1.04**	**1.55**	**0.597**	**0.0900**	**0.0560**	**0.503**	**0.683**
Mercury	**0.0151 J**	**0.0206 J**	**0.0246 J**	**0.0169 J**	**0.0176 J**	**0.0195 J**	**0.0153 J**
Methyl Mercury	**0.0211**	**0.0299**	**0.0219**	**0.0258**	**0.0268**	**0.0296**	**0.0301**
Nickel	**1.57**	**2.24**	**1.36**	**1.18**	**0.992**	**1.30**	**1.33**
Thallium	**0.0240**	**0.0318**	**0.0192**	**0.0234**	**0.0198**	**0.0158**	**0.0219**
Vanadium	**0.711**	**0.733**	**0.593**	**0.710**	**0.570**	**0.346**	**0.494**
Zinc	**21.1**	**36.5**	**22.0**	**22.3**	**20.4**	**20.9**	**22.1**
Semivolatile Organic Compounds (µg/kg wet)							
Bis(2-ethylhexyl) Phthalate	**87.0 J**	66.0 U	66.0 U	66.0 U	66.0 U	66.0 U	66.0 U
Butyl Benzyl Phthalate	7.30 U	7.30 U	7.30 U	7.30 U	7.30 U	7.30 U	7.30 U
Carbazole	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U
Di-n-butyl Phthalate	16.0 U	16.0 U	16.0 U	110 U	79.0 U	16.0 U	45.0 U
Di-n-octyl Phthalate	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U
p-cresol (4-Methylphenol)	7.70 U	7.70 U	7.70 U	7.70 U	7.70 U	7.70 U	7.70 U
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg wet)							
Acenaphthene	0.110 U	**0.190 J**	0.110 U	0.110 U	0.110 U	0.110 U	0.110 U
Anthracene	0.0650 U	**0.190 J**	0.0650 U	0.0650 U	0.0650 U	0.0650 U	0.0650 U
Fluorene	0.150 U	**0.250 J**	0.150 U	0.150 U	0.150 U	0.150 U	0.150 U
Phenanthrene	0.360 U	**0.450 J**	0.360 U	0.360 U	0.360 U	0.360 U	**0.590**
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg wet)							
Benzo(a)anthracene	0.0660 U	**0.400 J**	0.0660 U	**0.310 J**	0.0660 U	0.0660 U	0.0660 U
Benzo(a)pyrene	0.0810 U	**0.120 J**	0.0810 U	0.0810 U	0.0810 U	0.0810 U	0.0810 U
Benzo(b)fluoranthene	0.0700 U	**0.230 J**	0.0700 U	**0.200 J**	0.0700 U	0.0700 U	0.0700 U
Benzo(g,h,i)perylene	0.0730 U	0.480 U	0.0730 U	0.500 U	0.0730 U	0.0730 U	0.0730 U
Benzo(k)fluoranthene	0.0560 U	**0.200 J**	0.0560 U	**0.180 J**	0.0560 U	0.0560 U	0.0560 U
Chrysene	**0.0910 J**	**0.270 J**	0.0760 U	**0.260 J**	0.0760 U	0.0760 U	0.0760 U
Dibenz(a,h)anthracene	0.0590 U	**0.160 J**	0.0590 U	**0.120 J**	0.0590 U	0.0590 U	0.0590 U
Fluoranthene	0.500 U	0.480 U	0.500 U	0.500 U	0.480 U	0.490 U	0.490 U
Indeno(1,2,3-cd)pyrene	0.0640 U	**0.180 J**	0.0640 U	**0.130 J**	0.0640 U	0.0640 U	0.0640 U
Pyrene	0.500 U	0.480 U	0.500 U	0.500 U	0.480 U	0.490 U	0.490 U

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
MDL = method detection limit
RDL = reported detection limit
ND = Non Detect
- = Not Analyzed
bold = analyte detected above MDL/RDL.
J = The reported value is an estimate.

[1] The crayfish Total PCBs as Aroclors is shown as the maximum MDL because all aroclors were undected in Reference Area crayfish samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.

Table 6-10b
Post-Removal Reference Area Crayfish Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, Metals, and Semivolatile Organic Compounds
(Page 3 of 3)

Area	Reference	Reference	Reference	Reference	Reference	Reference	Reference
Site ID	P79-CF	P82-CF	P90-CF	P91-CF	P92-CF	P94-CF	P98-CF
Sample ID	08030379CF	08030382CF	08031290CF	08031291CF	08031292CF	08031294CF	08031298CF
Sample Date	3/3/2008	3/3/2008	3/12/2008	3/12/2008	3/12/2008	3/12/2008	3/12/2008
Percent Lipds	1.2	0.70	0.23	0.81	0.56	0.50	0.42
PCB Aroclors (µg/kg wet)							
Aroclor 1016	2.40 U	2.40 U	2.40 U	4.80 U	2.40 U	2.40 U	2.40 U
Aroclor 1221	2.60 U	2.60 U	2.60 U	5.20 U	2.60 U	2.60 U	2.60 U
Aroclor 1232	2.30 U	2.30 U	2.30 U	4.60 U	2.30 U	2.30 U	2.30 U
Aroclor 1242	2.20 U	2.20 U	2.20 U	4.40 U	2.20 U	2.20 U	2.20 U
Aroclor 1248	0.510 U	0.510 U	0.510 U	1.10 U	0.510 U	0.510 U	0.510 U
Aroclor 1254	1.80 U	1.80 U	1.80 U	3.60 U	1.80 U	1.80 U	1.80 U
Aroclor 1260	1.90 U	1.90 U	1.90 U	3.80 U	1.90 U	1.90 U	1.90 U
Aroclor 1262	2.50 U	2.50 U	2.50 U	5.00 U	2.50 U	2.50 U	2.50 U
Aroclor 1268	2.00 U	2.00 U	2.00 U	4.00 U	2.00 U	2.00 U	2.00 U
Total PCBs as Aroclors [1]	2.60 U	2.60 U	2.60 U	5.20 U	2.60 U	2.60 U	2.60 U
PCB Dioxin-Like Congeners (µg/kg wet)							
PCB 77	**0.00349**	**0.00466**	**0.00187**	**0.00380**	**0.00190**	**0.00274**	**0.00228**
PCB 81	0.000162 U	0.000250 EMPC	0.000204 U	0.000188 U	0.000401 U	0.000151 U	0.000146 EMPC
PCB 105	**0.00799**	**0.0248**	**0.0155**	**0.0143**	**0.00225**	**0.00400**	**0.00433**
PCB 114	**0.00356**	**0.00815**	**0.00471**	**0.00417**	**0.00286**	**0.00302**	**0.00347**
PCB 118	**0.122**	**0.323**	**0.264**	**0.163**	**0.0697**	**0.112**	**0.101**
PCB 123	**0.00326**	**0.00736**	**0.00645**	**0.00372**	**0.00226**	**0.00291**	**0.00300**
PCB 126	**0.000530**	0.000792 U	0.000329 U	**0.000402**	0.000275 U	0.000243 EMPC	0.000261 EMPC
PCB 156	**0.0188 C**	**0.0391 C**	**0.0296 C**	**0.0204 C**	**0.0151 C**	**0.0167 C**	**0.0201 C**
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**						
PCB 167	**0.0112**	**0.0301**	**0.0273**	**0.0134**	**0.00947**	**0.0123**	**0.0166**
PCB 169	0.000114 U	0.000200 U	0.000223 U	0.000237 U	0.000301 U	0.000307 U	0.0000971 U
PCB 189	**0.00131**	**0.00220**	**0.00129**	0.00114 EMPC	**0.00131**	**0.000936**	**0.00132**
Total PCBs as Congeners (KM, capped)	**0.876 J**	**1.94 J**	**1.12 J**	**1.02 J**	**0.498 J**	**0.650 J**	**0.609 J**
Metals (mg/kg wet)							
Aluminum	**167 J**	**196 J**	**157 J**	**124 J**	**160 J**	**101 J**	**71.2 J**
Antimony	**0.0150**	**0.00800 J**	**0.00700 J**	**0.00600 J**	**0.00800 J**	**0.0190**	**0.0110 J**
Arsenic	**0.458**	**0.404**	**0.280**	**0.459**	**0.360**	**0.338**	**0.308**
Barium	**89.0**	**74.5**	**49.0**	**78.2**	**83.3**	**79.4**	**68.6**
Beryllium	**0.00400 J**	**0.00420 J**	**0.00390 J**	**0.00310 J**	**0.00400 J**	**0.00270 J**	**0.00330 J**
Cadmium	**0.129**	**0.0690**	**0.0520**	**0.0890**	**0.147**	**0.112**	**0.119**
Chromium	**0.530**	**0.780**	**1.06**	**0.310**	**0.530**	**0.530**	**0.570**
Cobalt	**0.350**	**0.395**	**0.338**	**0.439**	**0.298**	**0.258**	**0.224**
Copper	**28.0 J**	**17.4 J**	**12.2 J**	**18.6 J**	**19.5 J**	**14.6 J**	**13.3 J**
Lead	**0.387**	**0.151**	**0.153**	**0.0890**	**0.244**	**0.416**	**0.364**
Mercury	**0.0105 J**	**0.0181 J**	**0.0190 J**	**0.0185 J**	**0.0221 J**	**0.0182 J**	**0.0173 J**
Methyl Mercury	**0.0254**	**0.0333**	**0.0344**	**0.0221**	**0.0201**	**0.0200**	**0.0181**
Nickel	**1.87**	**2.42**	**3.44**	**1.82**	**2.00**	**1.85**	**2.36**
Thallium	**0.0216**	**0.0254**	**0.0147**	**0.0370**	**0.0197**	**0.0195**	**0.0158**
Vanadium	**0.557**	**0.754**	**0.703**	**0.804**	**0.509**	**0.355**	**0.261**
Zinc	**24.0**	**21.6**	**22.4**	**20.2**	**20.9**	**19.0**	**18.6**
Semivolatile Organic Compounds (µg/kg wet)							
Bis(2-ethylhexyl) Phthalate	66.0 U	66.0 U	66.0 U	66.0 U	**76.0 J**	66.0 U	66.0 U
Butyl Benzyl Phthalate	7.30 U	**15.0 J**	**18.0 J**	7.30 U	7.30 U	7.30 U	**31.0 J**
Carbazole	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U
Di-n-butyl Phthalate	16.0 U	70.0 U	73.0 U	40.0 U	38.0 U	55.0 U	57.0 U
Di-n-octyl Phthalate	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U
p-cresol (4-Methylphenol)	7.70 U	7.70 U	7.70 U	7.70 U	7.70 U	7.70 U	7.70 U
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg wet)							
Acenaphthene	**0.120 J**	**0.130 J**	0.110 U	0.110 U	0.110 U	0.110 U	0.110 U
Anthracene	0.0650 U	**0.0980 J**	0.0650 U	0.0650 U	0.0650 U	0.0650 U	0.0650 U
Fluorene	0.150 U	**0.180 J**	0.150 U	0.150 U	0.150 U	0.150 U	0.150 U
Phenanthrene	**0.510**	**0.580**	0.360 U	0.360 U	0.360 U	0.360 U	0.360 U
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg wet)							
Benzo(a)anthracene	0.0660 U	0.0660 U	0.0660 U	0.0660 U	0.0660 U	0.0660 U	0.0660 U
Benzo(a)pyrene	0.0810 U	0.0810 U	0.0810 U	0.0810 U	0.0810 U	0.0810 U	0.0810 U
Benzo(b)fluoranthene	0.0700 U	0.0700 U	**0.0820 J**	0.0700 U	0.0700 U	0.0700 U	**0.0860 J**
Benzo(g,h,i)perylene	0.0730 U	0.0730 U	0.0730 U	0.0730 U	0.0730 U	0.0730 U	0.490 U
Benzo(k)fluoranthene	0.0560 U	0.0560 U	**0.0720 J**	0.0560 U	0.0560 U	0.0560 U	**0.0920 J**
Chrysene	0.0760 U	0.0760 U	**0.110 J**	0.0760 U	0.0760 U	0.0760 U	**0.120 J**
Dibenz(a,h)anthracene	0.0590 U	0.0590 U	0.0590 U	0.0590 U	0.0590 U	0.0590 U	**0.0720 J**
Fluoranthene	0.490 U	0.490 U	0.450 U	0.500 U	0.500 U	0.490 U	0.490 U
Indeno(1,2,3-cd)pyrene	0.0640 U	0.0640 U	0.0640 U	0.0640 U	0.0640 U	0.0640 U	**0.0870 J**
Pyrene	0.490 U	0.490 U	0.450 U	0.500 U	0.500 U	0.490 U	0.490 U

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
MDL = method detection limit
RDL = reported detection limit
ND = Non Detect
- = Not Analyzed
bold = analyte detected above MDL/RDL.
J = The reported value is an estimate.

[1] The crayfish Total PCBs as Aroclors is shown as the maximum MDL because all aroclors were undected in Reference Area crayfish samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.

Table 6-11a
Post-Removal Forebay Area Sculpin Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, and Metals
(Page 1 of 2)

Area	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	Selected SLV	SLV Source
Site ID	SF-01	SF-02	SF-03	SF-04	SF-05	SF-06	SF-07	SF-08		
Sample ID	F-1	F-2	F-3	F-4	F-5	F-6	F-7	F-8		
Sample Date	9/17/2008	9/17/2008	9/17/2008	9/17/2008	10/22/2008	9/19/2008	10/21/2008	9/17/2008		
Percent Lipids	3.59	4.83	3.94	2.56	4.38	7.69	4.62	4.05		
PCB Aroclors (µg/kg wet)										
Aroclor 1016	2.40 U	2.40 U	12.0 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	35.0	Eco
Aroclor 1221	2.60 U	2.60 U	13.0 U	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	35.0	Eco
Aroclor 1232	2.30 U	2.30 U	12.0 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	35.0	Eco
Aroclor 1242	2.20 U	2.20 U	11.0 U	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	35.0	Eco
Aroclor 1248	0.510 U	0.510 U	2.60 U	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U	35.0	Eco
Aroclor 1254	13.0 U	43.0 U	**1,700**	**470**	**130**	130 U	28.0 U	20.0 U	35.0	Eco
Aroclor 1260	1.90 U	36.0 U	9.50 U	1.90 U	1.90 U	82.0 U	1.90 U	1.90 U	35.0	Eco
Aroclor 1262	2.50 U	2.50 U	13.0 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	35.0	Eco
Aroclor 1268	2.00 U	2.00 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	35.0	Eco
Total PCBs as Aroclors (NDs at MDLs) [1]	13.0 U	43.0 U	**1700**	**470**	**130**	130 U	28.0 U	20.0 U	35.0	Eco
PCB Dioxin-Like Congeners (µg/kg wet)										
PCB 77	**0.0108**	**0.0199**	**0.443**	**0.111**	**0.0400**	**0.0487**	**0.0128**	**0.0298**	0.160	Eco
PCB 81	0.000449 EMPC	0.000807 EMPC	0.295 U	0.00950 U	0.00523 U	0.00388 U	0.000553 U	**0.00145**	0.0800	Eco
PCB 105	**0.383**	**0.881**	**269**	**38.2**	**21.4**	**5.13**	**0.600**	**0.752**	20.0	Eco
PCB 114	**0.0448**	**0.162**	**19.9**	**3.51**	**2.89**	**0.356**	**0.0553**	**0.0734**	20.0	Eco
PCB 118	**1.63**	**6.70**	**757**	**111**	**86.9**	**19.3**	**2.43**	**3.00**	20.0	Eco
PCB 123	**0.0229**	**0.0610**	**11.8**	**1.66**	**0.920**	**0.268**	**0.0326**	**0.0376**	20.0	Eco
PCB 126	**0.00321**	**0.00731**	0.405 EMPC	**0.0540**	**0.0291**	**0.0117**	**0.00435**	**0.00597**	0.00580	Eco
PCB 156	**0.306 C**	**1.22 C**	**118 C**	**21.9 C**	**25.4 C**	**2.02 C**	**0.340 C**	**0.428 C**	20.0	Eco
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**								20.0	Eco
PCB 167	**0.0979**	**0.322**	**30.8**	**5.23**	**3.52**	**0.766**	**0.116**	**0.140**	20.0	Eco
PCB 169	0.00246 U	0.00704 U	0.164 U	0.0232 U	0.0288 U	0.00551 U	**0.00365**	0.00363 U	0.0200	Eco
PCB 189	**0.0128**	**0.0881**	**2.48**	**0.400**	**0.501**	**0.0437**	**0.0135**	**0.0157**	20.0	Eco
Total PCBs as Congeners (KM, capped)	**14.9 J**	**48.8 J**	**4773 J**	**915 J**	**559 J**	**141 J**	**22.9 J**	**26.1 J**	35.0	Eco
Metals (mg/kg wet)										
Arsenic	**0.289**	**0.334**	**0.272**	**0.435**	**0.308**	**0.421**	**0.232**	**0.332**	6.60	Eco
Cadmium	**0.0148**	**0.0183**	**0.0224**	**0.0279**	**0.0140**	**0.00720**	**0.0194**	**0.0134**	0.150	Eco
Lead	**0.0750**	**0.0740**	**0.0546**	**0.0499**	**0.136**	0.0214 U	**0.0393**	**0.0813**	0.120	Eco
Mercury	**0.114 J**	**0.240 J**	**0.308 J**	**0.122 J**	**0.143 J**	**0.0327 J**	**0.188 J**	**0.131 J**	0.0740	Eco

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
RDL = reported detection limit
- = Not Analyzed
-- = SLV for analyte not available
ND = Non Detect

[1] Only Aroclor 1254 was included in summing sculpin Total PCBs as Aroclors because all other aroclors were undected in Forebay sculpin samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV

Table 6-11a
Post-Removal Forebay Area Sculpin Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, and Metals
(Page 2 of 2)

Area	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	**Selected SLV**	**SLV Source**
Site ID	SF-09	SF-10	SF-11	SF-12	SF-13	SF-14	SF-15	SF-16	SF-17		
Sample ID	F-9	F-10	F-11	F-12	F-13	F-14	F-15	F-16	F-17		
Sample Date	9/19/2008	10/21/2008	9/17/2008	2/22/2008	2/22/2008	10/22/2008	10/21/2008	10/21/2008	10/21/2008		
Percent Lipids	4.22	3.15	4.85	4.39	1.51	3.69	1.88	3.23	4.24		
PCB Aroclors (µg/kg wet)											
Aroclor 1016	2.40 U	2.40 U	2.40 U	14.0 UJ	8.20 UJ	2.40 U	2.40 U	2.40 U	2.40 U	35.0	Eco
Aroclor 1221	2.60 U	2.60 U	2.60 U	27.0 UJ	69.0 UJ	2.60 U	2.60 U	2.60 U	2.60 U	35.0	Eco
Aroclor 1232	2.30 U	2.30 U	2.30 U	38.0 UJ	62.0 UJ	2.30 U	2.30 U	2.30 U	2.30 U	35.0	Eco
Aroclor 1242	2.20 U	2.20 U	2.20 U	23.0 UJ	35.0 UJ	2.20 U	2.20 U	2.20 U	2.20 U	35.0	Eco
Aroclor 1248	0.510 U	0.510 U	0.510 U	13.0 UJ	6.70 UJ	0.510 U	0.510 U	0.510 U	0.510 U	35.0	Eco
Aroclor 1254	27.0 U	19.0 U	28.0 U	23.0 UJ	35.0 UJ	29.0 U	27.0 U	37.0 U	32.0 U	35.0	Eco
Aroclor 1260	13.0 U	1.90 U	1.90 U	38.0 UJ	6.50 UJ	1.90 U	1.90 U	1.90 U	1.90 U	35.0	Eco
Aroclor 1262	2.50 U	2.50 U	2.50 U	9.30 UJ	8.60 UJ	2.50 U	2.50 U	2.50 U	2.50 U	35.0	Eco
Aroclor 1268	2.00 U	2.00 U	2.00 U	7.50 UJ	6.90 UJ	2.00 U	2.00 U	2.00 U	2.00 U	35.0	Eco
Total PCBs as Aroclors (NDs at MDLs) [1]	27.0 U	19.0 U	28.0 U	23.0 UJ	35.0 UJ	29.0 U	27.0 U	37.0 U	32.0 U	35.0	Eco
PCB Dioxin-Like Congeners (µg/kg wet)											
PCB 77	**0.0114**	**0.0143**	**0.0142**	**0.0292 J**	**0.00431 J**	**0.0153**	**0.00464**	**0.0187**	**0.0154**	0.160	Eco
PCB 81	0.000382 EMPC	0.000524 U	0.000710 EMPC	0.000818 UJ	0.000225 UJ	0.000756 U	0.000278 U	0.000846 EMPC	0.00111 U	0.0800	Eco
PCB 105	**0.325**	**0.652**	**0.527**	**1.21 J**	**0.303 J**	**0.997**	**0.549**	**0.530**	**1.57**	20.0	Eco
PCB 114	**0.0327**	**0.0478**	**0.0682**	**0.0638 J**	**0.0212 J**	**0.0818**	**0.0488**	**0.239**	**0.128**	20.0	Eco
PCB 118	**1.36**	**2.09**	**2.88**	**3.84 J**	**0.870 J**	**3.75**	**1.86**	**7.34**	**4.80**	20.0	Eco
PCB 123	**0.0214**	**0.0241**	**0.0394**	**0.0303 J**	0.0128 EMPC	**0.0487**	**0.0196**	**0.160**	**0.0566**	20.0	Eco
PCB 126	**0.00321**	**0.00420**	**0.00550**	**0.0102 J**	**0.00239 J**	**0.00632**	**0.00290**	**0.00726**	**0.00596**	0.00580	Eco
PCB 156	**0.179 C**	**0.337 C**	**0.414 C**	**0.283 C J**	**0.123 C J**	**0.485 C**	**0.381 C**	**1.55 C**	**0.759 C**	20.0	Eco
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**									20.0	Eco
PCB 167	**0.0716**	**0.0935**	**0.165**	**0.131 J**	**0.0432 J**	**0.179**	**0.0875**	**0.671**	**0.193**	20.0	Eco
PCB 169	0.00218 U	0.00322 U	0.00479 U	0.00405 UJ	0.00145 UJ	0.00562 U	0.00369 U	0.00416 U	0.00370 U	0.0200	Eco
PCB 189	**0.00813**	**0.0136**	**0.0209**	**0.00962 J**	**0.00586 J**	**0.0158**	**0.0205**	**0.0413**	**0.0248**	20.0	Eco
Total PCBs as Congeners (KM, capped)	**12.3 J**	**23.1 J**	**24.1 J**	**39.6 J**	**9.87 J**	**35.3 J**	**19.4 J**	**35.6 J**	**40.7 J**	35.0	Eco
Metals (mg/kg wet)											
Arsenic	**0.243**	**0.407**	**0.269**	**0.402**	**0.280**	**0.401**	**0.243**	**0.244**	**0.184**	6.60	Eco
Cadmium	**0.0165**	**0.0135**	**0.0121**	**0.0162**	**0.0453**	**0.0194**	**0.0325**	**0.0214**	**0.0272**	0.150	Eco
Lead	**0.0833**	**0.0459**	**0.0334**	**0.0876**	**0.306**	**0.0315**	**0.0313**	**0.0918**	**0.0384**	0.120	Eco
Mercury	**0.162 J**	**0.0655 J**	**0.210 J**	**0.0543 J**	**0.0525 J**	**0.125 J**	**0.221 J**	**0.298 J**	**0.110 J**	0.0740	Eco

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
RDL = reported detection limit
- = Not Analyzed
-- = SLV for analyte not available
ND = Non Detect

[1] Only Aroclor 1254 was included in summing sculpin Total PCBs as Aroclors because all other aroclors were undected in Forebay sculpin samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV

Table 6-11b
Post-Removal Reference Area Sculpin Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, and Metals
(Page 1 of 2)

Area	Reference	Reference	Reference	Reference	Reference	Reference	Reference	Reference	Reference
Site ID	SR-01	SR-02	SR-03	SR-04	SR-05	SR-06	SR-07	SR-08	SR-09
Sample ID	R-1	R-2	R-3	R-4	R-5	R-6	R-7	R-8	R-9
Sample Date	7/23/2008	7/24/2008	3/14/2008	10/9/2008	7/24/2008	2/26/2008	3/10/2008	10/9/2008	7/24/2008
Percent Lipids	3.5	3.7	2.3	4.3	5.0	1.9	4.2	3.2	5.0
PCB Aroclors (µg/kg wet)									
Aroclor 1016	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U
Aroclor 1221	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U
Aroclor 1232	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U
Aroclor 1242	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U
Aroclor 1248	45.0 U	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U
Aroclor 1254	1.80 U	17.0 U	19.0 U	21.0 U	23.0 U	22.0 U	17.0 U	39.0 U	19.0 U
Aroclor 1260	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U
Aroclor 1262	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U
Aroclor 1268	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Total PCBs as Aroclors (NDs at MDLs) [1]	45.0 U	17.0 U	19.0 U	21.0 U	23.0 U	22.0 U	17.0 U	39.0 U	19.0 U
PCB Dioxin-Like Congeners (µg/kg wet)									
PCB 77	**0.0114**	**0.0129**	**0.0107**	**0.0138**	**0.0217**	**0.00519**	**0.00981 J**	**0.0139**	**0.0132**
PCB 81	0.000938 EMPC	0.00140 EMPC	0.00136 EMPC	0.000689 EMPC	0.00198 EMPC	0.000711 U	0.00141 EMPC	0.00119 EMPC	0.00104 EMPC
PCB 105	**0.505**	**0.685**	**0.972**	**0.455**	**1.04**	**0.358**	**0.591 J**	**0.593**	**0.531**
PCB 114	**0.0320**	**0.0471**	**0.0821**	**0.0272**	**0.0716**	**0.0250**	**0.0392 J**	**0.0376**	**0.0347**
PCB 118	**1.54**	**2.18**	**3.87**	**1.27**	**3.49**	**1.05**	**1.71 J**	**1.79**	**1.72**
PCB 123	**0.0202**	**0.0258**	**0.0445**	**0.0214**	**0.0453**	**0.0153**	**0.0255 J**	**0.0216**	**0.0232**
PCB 126	**0.00306**	**0.00364**	**0.00462**	**0.00254**	**0.00589**	**0.00272**	**0.00397 J**	**0.00340**	0.00335 EMPC
PCB 156	**0.183 C**	**0.239 C**	**0.464 C**	**0.148 C**	**0.438 C**	**0.140 C**	**0.187 C J**	**0.192 C**	**0.178 C**
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**								
PCB 167	**0.0708**	**0.0912**	**0.175**	**0.0606**	**0.149**	**0.0519**	**0.0770 J**	**0.0739**	**0.0811**
PCB 169	0.00336 U	0.00403 U	0.00777 U	0.00214 U	0.00756 U	0.00290 U	0.00395 UJ	0.00294 U	0.00384 U
PCB 189	**0.00691**	**0.00859**	0.000318 U	**0.00520**	**0.0172**	**0.00598**	**0.00673 J**	**0.00640**	**0.00593**
Total PCBs as Congeners (KM, capped)	**16.8 J**	**21.9 J**	**37.5 J**	**15.9 J**	**38.3 J**	**12.2 J**	**19.2 J**	**18.1 J**	**18.4 J**
Metals (mg/kg wet)									
Arsenic	**0.323**	**0.449**	**0.418**	**0.302**	**0.484**	**0.323**	**0.239**	**0.294**	**0.311**
Cadmium	**0.0244**	**0.0128**	**0.0158**	**0.0135**	**0.0114**	**0.0204**	**0.00970**	**0.0112**	**0.00870**
Lead	**0.0453**	**0.0526**	**0.0249**	**0.0239**	**0.0280**	**0.0370**	**0.0532**	**0.0402**	**0.0319**
Mercury	**0.0757 J**	**0.0694 J**	**0.0908 J**	**0.0889 J**	**0.102 J**	**0.102 J**	**0.0683 J**	**0.137 J**	**0.0533 J**

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
MDL = method detection limit
ND = Non Detect
RDL = reported detection limit
- = Not Analyzed
bold = analyte detected above MDL.
J = The reported value is an estimate.

[1] The sculpin Total PCBs as Aroclors is shown as the maximum MDL because all aroclors were undected in Reference Area sculpin samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.

Table 6-11b
Post-Removal Reference Area Sculpin Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, and Metals
(Page 2 of 2)

Area	Reference	Reference	Reference	Reference	Reference	Reference	Reference	Reference	Reference
Site ID	SR-10	SR-11	SR-12	SR-13	SR-14	SR-15	SR-16	SR-17	SR-18
Sample ID	R-10	R-11	R-12	R-13	R-14	R-15	R-16	R-17	R-18
Sample Date	7/23/2008	3/3/2008	10/9/2008	7/23/2008	10/10/2008	10/9/2008	10/10/2008	10/9/2008	7/24/2008
Percent Lipids	5.5	3.3	4.1	3.6	4.9	2.9	4.1	5.5	3.4
PCB Aroclors (µg/kg wet)									
Aroclor 1016	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U	2.40 U
Aroclor 1221	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U
Aroclor 1232	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U
Aroclor 1242	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U
Aroclor 1248	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U
Aroclor 1254	28.0 U	24.0 U	13.0 U	36.0 U	20.0 U	35.0 U	38.0 U	30.0 U	44.0 U
Aroclor 1260	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U
Aroclor 1262	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U
Aroclor 1268	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Total PCBs as Aroclors (NDs at MDLs) [1]	28.0 U	24.0 U	13.0 U	36.0 U	20.0 U	35.0 U	38.0 U	30.0 U	44.0 U
PCB Dioxin-Like Congeners (µg/kg wet)									
PCB 77	**0.0178**	**0.0138**	**0.0177**	**0.0213**	**0.0194**	**0.0160**	**0.0140**	**0.0259**	**0.0132**
PCB 81	0.00139 EMPC	0.00142 EMPC	0.000998 EMPC	0.00156 EMPC	0.00157 EMPC	0.00149 EMPC	0.000829 EMPC	0.00221 EMPC	0.00122 EMPC
PCB 105	**0.692**	**0.937**	**0.828**	**0.885**	**0.614**	**0.694**	**0.442**	**0.908**	**0.717**
PCB 114	**0.0478**	**0.0683**	**0.0544**	**0.0605**	**0.0403**	**0.0644**	**0.0337**	**0.0578**	**0.0439**
PCB 118	**2.19**	**3.13**	**2.80**	**2.79**	**1.92**	**3.11**	**1.61**	**2.85**	**1.93**
PCB 123	**0.0298**	**0.0358**	**0.0333**	**0.0470**	0.0320 EMPC	**0.0423**	**0.0219**	**0.0402**	**0.0313**
PCB 126	**0.00380**	**0.00519**	**0.00593**	**0.00483**	**0.00520**	**0.00493**	**0.00313**	**0.00552**	**0.00391**
PCB 156	**0.270 C**	**0.374 C**	**0.322 C**	**0.402 C**	**0.203 C**	**0.402 C**	**0.193 C**	**0.350 C**	**0.257 C**
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**								
PCB 167	**0.101**	**0.142**	**0.136**	**0.170**	**0.0968**	**0.146**	**0.0910**	**0.139**	**0.0992**
PCB 169	0.00456 U	0.00586 U	0.00384 U	0.00505 U	0.00366 U	0.00929 U	0.00488 U	0.00712 U	0.00467 U
PCB 189	**0.00963**	**0.0142**	**0.0115**	**0.00974**	**0.00690**	**0.0154**	**0.00820**	**0.0110 EMPC**	**0.00920**
Total PCBs as Congeners (KM, capped)	**24.0 J**	**32.4 J**	**27.5 J**	**31.5 J**	**22.3 J**	**27.2 J**	**17.3 J**	**30.5 J**	**24.2 J**
Metals (mg/kg wet)									
Arsenic	**0.473**	**0.370**	**0.484**	**0.427**	**0.398**	**0.350**	**0.355**	**0.461**	**0.407**
Cadmium	**0.0169**	**0.0156**	**0.0116**	**0.0146**	**0.0141**	**0.0154**	**0.0264**	**0.0176**	**0.0130**
Lead	**0.0252**	**0.0758**	0.0214 U	**0.0347**	**0.0312**	**0.0268**	**0.0314**	**0.0286**	**0.0341**
Mercury	**0.0790 J**	**0.112 J**	**0.0880 J**	**0.0922 J**	**0.0448 J**	**0.141 J**	**0.0902 J**	**0.0554 J**	**0.0862 J**

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
MDL = method detection limit
ND = Non Detect
RDL = reported detection limit
- = Not Analyzed
bold = analyte detected above MDL.
J = The reported value is an estimate.

[1] The sculpin Total PCBs as Aroclors is shown as the maximum MDL because all aroclors were undected in Reference Area sculpin samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.

Table 6-12a
Post-Removal Forebay Area Surface Water Analytical Results for High-Volume XAD Device Samples
PCB Aroclors, PCB Dioxin-Like Congeners, and Semivolatile Organic Compounds
(Page 1 of 2)

Area	Forebay			Forebay			Forebay			Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Site ID	P52			P53			P54						
Sample ID	08021252XAD			08022453XAD			08021354XAD						
Sample Date	2/12/2008			2/24/2008			2/13/2008						
Preparation Fraction	Column	Filter	Column+ Filter (ND=RDL/MDL)	Column	Filter	Column+ Filter (ND=RDL/MDL)	Column	Filter	Column+ Filter (ND=RDL/MDL)				
PCB Dioxin-Like Congeners (pg/L)													
PCB 77	0.0330 U	0.0310 U	0.0640 U	0.0770 EMPC	**0.0560**	**0.133 J**	0.0330 U	**0.0460**	**0.0790 J**	--	--	5,200	HH
PCB 81	0.00980 U	0.00450 U	0.0143 U	0.00590 U	0.00520 U	0.0111 U	0.00640 U	0.00600 U	0.0124 U	--	--	5,200	HH
PCB 105	**0.119**	**0.221**	**0.340**	**0.163**	**0.339**	**0.502**	**0.114**	**0.332**	**0.446**	--	--	5,200	HH
PCB 114	0.0120 U	0.0170 U	0.0290 U	0.00900 U	0.0200 U	0.0290 U	0.00800 U	0.0250 U	0.0330 U	--	--	100	HH
PCB 118	**0.360**	**0.518**	**0.878**	**0.499**	**1.07**	**1.57**	**0.325**	**0.947**	**1.27**	--	--	5,200	HH
PCB 123	0.00700 U	0.0130 U	0.0200 U	0.00900 EMPC	0.0170 U	0.0260 U	0.00370 U	0.0180 U	0.0217 U	--	--	5,200	HH
PCB 126	0.00540 U	0.00410 U	0.00950 U	0.00600 U	0.00570 U	0.0117 U	0.00420 U	0.0112 U	0.0154 U	--	--	5.20	HH
PCB 156	0.0260 C U	**0.0850 C**	**0.111 C J**	**0.0360 C**	**0.319 C**	**0.355 C**	0.0230 C U	**0.359 C**	**0.382 C J**	--	--	1,000	HH
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**									--	--	1,000	HH
PCB 167	**0.0140**	**0.0330**	**0.0470**	**0.0130**	**0.139**	**0.152**	**0.0100**	**0.148**	**0.158**	--	--	52,000	HH
PCB 169	0.00290 U	0.00170 U	0.00460 U	0.00140 U	0.00660 U	0.00800 U	0.00210 U	0.00880 U	0.0109 U	--	--	52.0	HH
PCB 189	0.00400 U	0.00700 U	0.0110 U	0.00220 U	**0.0640**	**0.0662 J**	0.00250 U	0.0900 EMPC	0.0925 U	--	--	5,200	HH
Total PCBs as Congeners (KM, capped)	**97.7 J**	**14.7 J**	**112 J**	**153 J**	**55.7 J**	**209 J**	**95.7 J**	**61.2 J**	**157 J**	64.0	HH	14,000	Eco
Semivolatile Organic Compounds (ng/L)													
Bis(2-ethylhexyl) Phthalate	11.8 U	4.51 U	16.3 U	10.5 U	3.74 U	14.2 U	8.77 U	4.63 U	13.4 U	1,200	HH	3,000	Eco
Butyl Benzyl Phthalate	0.418 U	0.198 U	0.616 U	0.316 U	0.157 U	0.473 U	2.29 U	0.155 U	2.45 U	19,000	Eco	19,000	Eco
Di-n-butyl Phthalate	1.97 U	0.266 U	2.24 U	0.800 U	0.281 U	1.08 U	0.925 U	0.247 U	1.17 U	35,000	Eco	35,000	Eco
Di-n-octyl Phthalate	0.314 U	0.249 U	0.563 U	0.154 U	0.0960 U	0.250 U	0.852 U	0.160 U	1.01 U	1,200	HH	4,100	HH
Low Molecular Weight PAHs (LPAHs) (ng/L)													
Acenaphthene	**0.706**	0.0329 U	**0.739 J**	**1.12**	0.0282 U	**1.15 J**	**0.894**	0.015 U	**0.909 J**	520,000	Eco	520,000	Eco
Anthracene	0.0754 U	**0.0317**	**0.107 J**	0.0787 U	**0.0267**	**0.105 J**	0.0569 U	**0.0288**	**0.0857 J**	13,000	Eco	13,000	Eco
Phenanthrene	**1.39**	0.0919 U	**1.48 J**	**1.27**	0.107 U	**1.38 J**	**1.50**	0.105 U	**1.61 J**	6,300	Eco	140	HH
High Molecular Weight PAHs (HPAHs) (ng/L)													
Benzo(a)anthracene	0.0116 U	0.0519 U	0.0635 U	0.00830 EMPC	0.0288 U	0.0371 U	**0.0083**	0.0475 U	**0.0558 J**	3.80	HH	27.0	Eco
Benzo(a)pyrene	0.0246 U	0.0441 U	0.0687 U	0.0151 U	0.0467 U	0.0618 U	0.0269 U	0.0457 U	0.0726 U	3.80	HH	2.90	HH
Benzo(b)fluoranthene	0.0173 U	**0.0713**	**0.0886 J**	0.0107 U	0.0333 U	0.0440 U	0.0182 U	0.0774 EMPC	0.0956 U	3.80	HH	29.0	HH
Benzo(g,h,i)perylene	0.0118 U	0.0390 U	0.0508 U	0.0139 U	0.0241 U	0.0380 U	0.0098 U	0.0523 U	0.0621 U	380	HH	290	HH
Benzo(j,k)flouranthenes	0.0185 U	0.0430 U	0.0615 U	0.0115 U	0.0318 U	0.0433 U	0.0208 U	0.0497 U	0.0705 U	3.80	HH	14.0	Eco
Chrysene	**0.0512**	0.0844 U	**0.136 J**	**0.0385**	0.0626 U	**0.101 J**	**0.0494**	**0.113**	**0.162 J**	3.80	HH	2,040	Eco
Dibenz(a,h)anthracene	0.0211 U	0.0187 U	0.0398 U	0.0190 U	0.0250 U	0.0440 U	0.0142 U	0.0395 U	0.0537 U	18.0	HH	2.90	HH
Fluoranthene	0.516 U	**0.143**	**0.659 J**	0.538 U	**0.120**	**0.658 J**	0.561 U	**0.194**	**0.755 J**	6,160	Eco	6,160	Eco
Indeno(1,2,3-cd)pyrene	0.0127 U	0.0459 U	0.0586 U	0.0148 U	0.0308 U	0.0456 U	0.0101 U	0.0365 U	0.0466 U	3.80	HH	29.0	HH

Notes:
ng/L = Nanogram per liter
pg/L = Picogram per liter
Eco = Ecological
HH = Human Health
MDL = Method detection limit
ND = Non Detect
RDL = reported detection limit
SLV = Screening level value
- = Result not available or not calculated

-- = SLV for analyte not available
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
bold = analyte detected above MDL/RDL.
= The reported concentration exceeds the selected SLV

Table 6-12a
Post-Removal Forebay Area Surface Water Analytical Results for High-Volume XAD Device Samples
PCB Aroclors, PCB Dioxin-Like Congeners, and Semivolatile Organic Compounds
(Page 2 of 2)

Area	Forebay			Forebay			Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Site ID	P55			P56						
Sample ID	08022555XAD			08022156XAD						
Sample Date	2/25/2008			2/21/2008						
Preparation Fraction	Column	Filter	Column+ Filter (ND=RDL/MDL)	Column	Filter	Column+ Filter (ND=RDL/MDL)				
PCB Dioxin-Like Congeners (pg/L)										
PCB 77	0.0480 EMPC	0.0390 U	0.0870 U	0.0290 U	**0.0510**	**0.0800 J**	--	--	5,200	HH
PCB 81	0.00600 U	0.00730 U	0.0133 U	0.00760 U	0.00840 U	0.0160 U	--	--	5,200	HH
PCB 105	**0.147**	**0.339**	**0.486**	**0.119**	**0.421**	**0.540**	--	--	5,200	HH
PCB 114	0.0150 U	0.0210 U	0.0360 U	0.0100 U	0.0200 U	0.0300 U	--	--	100	HH
PCB 118	**0.448**	**0.825**	**1.27**	**0.361**	**1.07**	**1.43**	--	--	5,200	HH
PCB 123	0.00600 U	0.0150 U	0.0210 U	0.0100 EMPC	0.0230 U	0.0330 U	--	--	5,200	HH
PCB 126	0.00600 U	0.00460 U	0.0106 U	0.00570 U	0.00590 U	0.0116 U	--	--	5.20	HH
PCB 156	0.0280 C U	**0.110 C**	**0.138 C J**	0.0230 C U	**0.101 C**	**0.124 C J**	--	--	1,000	HH
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**						--	--	1,000	HH
PCB 167	0.0140 U	**0.0490**	**0.0630 J**	0.0110 EMPC	**0.0440**	**0.0550 J**	--	--	52,000	HH
PCB 169	0.00230 U	0.00400 U	0.00630 U	0.00180 U	0.00240 U	0.00420 U	--	--	52.0	HH
PCB 189	0.00220 U	0.00600 U	0.00820 U	0.00180 U	0.00800 U	0.00980 U	--	--	5,200	HH
Total PCBs as Congeners (KM, capped)	**154 J**	**22.6 J**	**177 J**	**138 J**	**26.4 J**	**164 J**	64.0	HH	14,000	Eco
Semivolatile Organic Compounds (ng/L)										
Bis(2-ethylhexyl) Phthalate	7.92 U	3.47 U	11.4 U	6.52 U	3.41 U	9.93 U	1,200	HH	3,000	Eco
Butyl Benzyl Phthalate	0.273 U	0.150 U	0.423 U	0.260 U	0.181 U	0.441 U	19,000	Eco	19,000	Eco
Di-n-butyl Phthalate	0.574 U	0.200 U	0.774 U	0.562 U	0.303 U	0.865 U	35,000	Eco	35,000	Eco
Di-n-octyl Phthalate	0.126 U	0.208 U	0.334 U	0.110 U	0.139 U	0.249 U	1,200	HH	4,100	HH
Low Molecular Weight PAHs (LPAHs) (ng/L)										
Acenaphthene	**1.26**	0.0191 U	**1.28 J**	**1.03**	0.0275 U	**1.06 J**	520,000	Eco	520,000	Eco
Anthracene	0.103 U	**0.0181**	**0.121 J**	0.0797 U	**0.0316**	**0.111 J**	13,000	Eco	13,000	Eco
Phenanthrene	**1.28**	0.0660 U	**1.35 J**	**1.39**	**0.188**	**1.58**	6,300	Eco	140	HH
High Molecular Weight PAHs (HPAHs) (ng/L)										
Benzo(a)anthracene	**0.0152**	0.0299 U	**0.0451 J**	**0.0120**	0.0480 U	**0.0600 J**	3.80	HH	27.0	Eco
Benzo(a)pyrene	0.0164 U	0.0221 U	0.0385 U	0.0131 U	0.0582 U	0.0713 U	3.80	HH	2.90	HH
Benzo(b)fluoranthene	0.0110 U	0.0422 U	0.0532 U	0.00920 EMPC	**0.0825**	**0.0917 J**	3.80	HH	29.0	HH
Benzo(g,h,i)perylene	0.0194 U	0.0289 U	0.0483 U	0.0195 U	0.0410 U	0.0605 U	380	HH	290	HH
Benzo(j,k)flouranthenes	0.0122 U	0.0376 U	0.0498 U	0.0100 U	0.0443 U	0.0543 U	3.80	HH	14.0	Eco
Chrysene	**0.0514**	0.0728 U	**0.124 J**	**0.0464**	**0.125**	**0.171 J**	3.80	HH	2,040	Eco
Dibenz(a,h)anthracene	0.0212 U	0.0232 U	0.0444 U	0.0107 U	0.0240 U	0.0347 U	18.0	HH	2.90	HH
Fluoranthene	0.562 U	**0.112**	**0.674 J**	0.572 U	**0.212**	**0.784 J**	6,160	Eco	6,160	Eco
Indeno(1,2,3-cd)pyrene	0.0200 U	0.0293 U	0.0493 U	0.0202 U	0.0367 U	0.0569 U	3.80	HH	29.0	HH

Notes:
ng/L = Nanogram per liter
pg/L = Picogram per liter
Eco = Ecological
HH = Human Health
MDL = Method detection limit
ND = Non Detect
RDL = reported detection limit
SLV = Screening level value
- = Result not available or not calculated

-- = SLV for analyte not available
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
bold = analyte detected above MDL/RDL.
= The reported concentration exceeds the selected SLV

Table 6-12b
Post-Removal Reference Area Surface Water Analytical Results for High-Volume XAD Device Samples
PCB Aroclors, PCB Dioxin-Like Congeners, and Semivolatile Organic Compounds
(Page 1 of 2)

Area	Reference			Reference			Reference		
Site ID	P57			P58			P59		
Sample ID	08022757XAD			08030758XAD			08022959XAD		
Sample Date	2/27/2008			3/7/2008			2/29/2008		
Preparation Fraction	Column	Filter	Column+ Filter (ND=RDL/MDL)	Column	Filter	Column+ Filter (ND=RDL/MDL)	Column	Filter	Column+ Filter (ND=RDL/MDL)
PCB Dioxin-Like Congeners (pg/L)									
PCB 77	**0.0470**	0.0320 U	**0.0790 J**	**0.0920**	**0.0470**	**0.139**	0.0430 U	0.0390 U	0.0820 U
PCB 81	0.00730 U	0.00550 U	0.0128 U	0.00700 U	0.00430 U	0.0113 U	0.00700 U	0.00470 U	0.0117 U
PCB 105	**0.125**	**0.262**	**0.387**	**0.178**	**0.282**	**0.460**	**0.149**	**0.297**	**0.446**
PCB 114	0.0110 U	0.0140 U	0.0250 U	0.0110 U	0.0200 U	0.0310 U	0.0170 U	0.0170 U	0.0340 U
PCB 118	**0.378**	**0.743**	**1.12**	**0.593**	**0.932**	**1.53**	**0.489**	**0.884**	**1.37**
PCB 123	0.00700 U	0.0170 U	0.0240 U	0.0140 U	0.0190 U	0.0330 U	0.00900 U	0.0200 U	0.0290 U
PCB 126	0.00680 U	0.00550 U	0.0123 U	0.00600 U	0.00700 U	0.0130 U	0.00390 U	0.00630 U	0.0102 U
PCB 156	0.0260 C U	**0.0850 C**	**0.111 C**	0.0360 C U	**0.0940 C**	**0.130 C**	0.0320 C U	**0.0990 C**	**0.131 C**
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**								
PCB 167	0.0130 U	**0.0410**	**0.0540**	0.0180 U	**0.0570**	**0.0750**	0.0150 U	**0.0560**	**0.0710**
PCB 169	0.00300 U	0.00170 U	0.00470 U	0.00240 U	0.00340 U	0.00580 U	0.00100 U	0.00200 U	0.00300 U
PCB 189	0.00360 U	0.00500 U	0.00860 U	0.00210 U	0.00400 U	0.00610 U	0.00200 U	0.00600 U	0.00800 U
Total PCBs as Congeners (KM, capped)	**154 J**	**24.3 J**	**178 J**	**109 J**	**21.2 J**	**130 J**	**149 J**	**22.8 J**	**172 J**
Semivolatile Organic Compounds (ng/L)									
Bis(2-ethylhexyl) Phthalate	17.0 U	2.76 U	19.8 U	15.5 U	6.76 U	22.3 U	9.13 U	2.75 U	11.9 U
Butyl Benzyl Phthalate	0.450 U	0.203 U	0.653 U	0.501 U	5.47 U	5.97 U	0.322 U	0.158 U	0.480 U
Di-n-butyl Phthalate	0.657 U	0.290 U	0.947 U	0.733 U	0.548 U	1.28 U	0.642 U	0.243 U	0.885 U
Di-n-octyl Phthalate	0.187 U	0.129 U	0.316 U	0.202 U	1.09 U	1.29 U	0.155 U	0.120 U	0.275 U
Low Molecular Weight PAHs (LPAHs) (ng/L)									
Acenaphthene	**1.28**	0.0161 U	**1.30 J**	**0.862**	0.0262 U	**0.888 J**	**2.41**	0.0213 U	**2.43 J**
Anthracene	0.0846 U	**0.0109**	**0.0955 J**	0.0687 U	**0.0194**	**0.0881 J**	0.133 U	**0.0172**	**0.150 J**
Phenanthrene	**1.26**	0.0571 U	**1.32 J**	**1.20**	0.0877 U	**1.29 J**	**1.52**	0.0722 U	**1.59 J**
High Molecular Weight PAHs (HPAHs) (ng/L)									
Benzo(a)anthracene	0.00930 EMPC	0.0205 U	0.0298 U	0.0177 U	0.0209 U	0.0386 U	**0.0162**	0.0276 U	**0.0438 J**
Benzo(a)pyrene	0.0171 U	0.0195 U	0.0366 U	0.0146 U	0.0226 U	0.0372 U	0.0204 U	0.0300 U	0.0504 U
Benzo(b)fluoranthene	0.0120 U	0.0235 U	0.0355 U	0.0100 U	0.0230 U	0.0330 U	0.0146 U	0.0327 U	0.0473 U
Benzo(g,h,i)perylene	0.0199 U	0.0254 U	0.0453 U	0.0121 U	0.0174 U	0.0295 U	0.0148 U	0.0224 U	0.0372 U
Benzo(j,k)flouranthenes	0.0136 U	0.0222 U	0.0358 U	0.0110 U	0.0209 U	0.0319 U	0.0159 U	0.0326 U	0.0485 U
Chrysene	**0.0393**	0.0450 U	**0.0843 J**	**0.0482**	0.0588 U	**0.107 J**	**0.0457**	0.0731 U	**0.119 J**
Dibenz(a,h)anthracene	0.0179 U	0.0224 U	0.0403 U	0.0215 U	0.0289 U	0.0504 U	0.0163 U	0.0182 U	0.0345 U
Fluoranthene	0.485 U	0.0793 U	0.564 U	0.591 U	**0.101**	**0.692 J**	**0.626**	**0.129**	**0.755 J**
Indeno(1,2,3-cd)pyrene	0.0222 U	0.0276 U	0.0498 U	0.0128 U	0.0187 U	0.0315 U	0.0164 U	0.0147 U	0.0311 U

Notes:

ng/L = Nanogram per liter
pg/L = Picogram per liter
MDL = Method detection limit
ND = Non Detect
RDL = reported detection limit
- = Result not available or not calculated
J = The reported value is an estimate.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
bold = analyte detected above MDL/RDL.

Table 6-12b
Post-Removal Reference Area Surface Water Analytical Results for High-Volume XAD Device Samples
PCB Aroclors, PCB Dioxin-Like Congeners, and Semivolatile Organic Compounds
(Page 2 of 2)

Area	Reference			Reference		
Site ID	P60			P61		
Sample ID	08030460XAD			08030661XAD		
Sample Date	3/4/2008			3/6/2008		
Preparation Fraction	Column	Filter	Column+ Filter (ND=RDL/MDL)	Column	Filter	Column+ Filter (ND=RDL/MDL)
PCB Dioxin-Like Congeners (pg/L)						
PCB 77	0.0410 U	**0.0570**	**0.0980**	**0.0800**	**0.0710**	**0.151**
PCB 81	0.00620 U	0.00470 U	0.0109 U	0.00660 U	0.00570 U	0.0123 U
PCB 105	**0.144**	**0.3270**	**0.471**	**0.160**	**0.403**	**0.563**
PCB 114	0.0100 U	0.0200 U	0.0300 U	0.00900 U	0.0220 U	0.0310 U
PCB 118	**0.553**	**1.080**	**1.63**	**0.552**	**1.22**	**1.77**
PCB 123	0.0140 U	0.0260 U	0.0400 U	0.0110 U	0.0260 U	0.0370 U
PCB 126	0.00410 U	0.0080 U	0.0121 U	0.00700 U	0.00800 U	0.0150 U
PCB 156	C 0.0300 U	**0.115 C**	**0.145 C**	0.0340 C U	**0.104 C**	**0.138 C**
PCB 157						
PCB 167	0.0160 U	**0.0700**	**0.0860**	0.0180 U	**0.0600**	**0.0780**
PCB 169	0.00160 U	0.00320 U	0.00480 U	0.00140 U	0.00240 U	0.00380 U
PCB 189	0.00200 U	0.00400 U	0.00600 U	0.00140 U	0.00500 U	0.00640 U
Total PCBs as Congeners (KM, capped)	**146 J**	**26.7 J**	**172 J**	**123 J**	**25.6 J**	**148 J**
Semivolatile Organic Compounds (ng/L)						
Bis(2-ethylhexyl) Phthalate	5.77 U	13.0 U	18.8 U	8.37 U	5.01 U	13.4 U
Butyl Benzyl Phthalate	0.299 U	0.452 U	0.751 U	0.263 U	0.402 U	0.665 U
Di-n-butyl Phthalate	0.626 U	0.595 U	1.22 U	0.517 U	0.324 U	0.841 U
Di-n-octyl Phthalate	0.0990 U	0.285 U	0.384 U	0.0910 U	0.180 U	0.271 U
Low Molecular Weight PAHs (LPAHs) (ng/L)						
Acenaphthene	**1.57**	0.0328 U	**1.60 J**	**0.971**	0.0141 U	**0.985 J**
Anthracene	0.0804 U	**0.0218**	**0.102 J**	0.0594 U	**0.0238**	**0.0832 J**
Phenanthrene	**1.46**	0.108 U	**1.57 J**	**1.23**	0.114 U	**1.34 J**
High Molecular Weight PAHs (HPAHs) (ng/L)						
Benzo(a)anthracene	**0.0159**	0.0374 U	**0.0533 J**	**0.0115**	0.0376 U	**0.0491 J**
Benzo(a)pyrene	0.0172 U	0.0392 U	0.0564 U	0.0131 U	0.0405 U	0.0536 U
Benzo(b)fluoranthene	0.0114 U	**0.0555**	**0.0669 J**	0.00870 U	**0.0512**	**0.0599 J**
Benzo(g,h,i)perylene	0.0163 U	0.0344 U	0.0507 U	0.0203 U	0.0400 U	0.0603 U
Benzo(j,k)flouranthenes	0.0124 U	0.0344 U	0.0468 U	0.00930 U	0.0551 U	0.0644 U
Chrysene	**0.0661**	0.0832 U	**0.149 J**	**0.0562**	0.0930 U	**0.149 J**
Dibenz(a,h)anthracene	0.0147 U	0.0224 U	0.0371 U	0.0179 U	0.0221 U	0.0400 U
Fluoranthene	**0.630**	**0.139**	**0.769**	**0.620**	**0.163**	**0.783**
Indeno(1,2,3-cd)pyrene	0.0182 U	0.0328 U	0.0510 U	0.0222 U	0.0417 U	0.0639 U

Notes:
ng/L = Nanogram per liter
pg/L = Picogram per liter
MDL = Method detection limit
ND = Non Detect
RDL = reported detection limit
- = Result not available or not calculated
J = The reported value is an estimate.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
bold = analyte detected above MDL/RDL.

Table 6-12c
Post-Removal Forebay Surface Water Analytical Results for Grab Samples
Metals, Petroleum Hydrocarbons, and General Chemistry Parameters

Area	Forebay	Forebay	Forebay	Forebay	Forebay	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Site ID	P52	P53	P54	P55	P56				
Sample ID	08021252SW	08022453SW	08021354SW	08022555SW	08022156SW				
Sample Date	2/12/2008	2/24/2008	2/13/2008	2/25/2008	2/21/2008				
Total Metals (µg/L)									
Aluminum	145 U	**91.0**	152 U	**99.0**	**141**	--	--	37000	HH
Antimony	7.00 U	7.00 U	7.00 U	50.0 U	7.00 U	5.6	HH	15	HH
Arsenic	**0.810**	**0.930**	**0.880**	**0.920**	**1.01**	0.018	HH	0.038	HH
Barium	**22.0**	**25.0**	**23.0**	**24.0**	**27.0**	1000	HH	7300	HH
Beryllium	**0.00900**	0.0200 U	**0.00300**	0.0200 U	0.0200 U	--	--	73	HH
Cadmium	**0.0130**	**0.0170 J**	**0.00900**	**0.0190 J**	**0.0130 J**	--	--	18	HH
Chromium	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	--	--	55000	HH
Cobalt	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	--	--	11	HH
Copper	**0.670**	**0.670**	**0.670**	**0.790**	**0.720**	1300	HH	1500	HH
Lead	**0.0790**	**0.175**	**0.0870**	**0.108**	**0.140**	--	--	15	HH
Mercury	0.0300 U	0.0300 U	0.0300 U	0.0300 U	0.0300 U	--	--	11	HH
Nickel	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	610	HH	730	HH
Thallium	**0.0330**	**0.0260**	**0.0310**	**0.0280**	**0.0280**	0.24	HH	2	HH
Vanadium	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	--	--	2.6	HH
Zinc	7.00 U	7.00 U	7.00 U	7.00 U	7.00 U	7400	HH	11000	HH
Dissolved Metals (µg/L)									
Aluminum	50 U	20.0 U	50.0 U	20.0 U	20.0 U	87	Eco	87	Eco
Antimony	7.00 U	7.00 U	7.00 U	50.0 U	7.00 U	5.6	HH	15	HH
Arsenic	**0.720**	**0.890**	**0.820**	**0.940**	**0.890**	0.018	HH	0.038	HH
Barium	**21.0**	**24.0**	**22.0**	**23.0**	**24.0**	4	Eco	4	Eco
Beryllium	**0.00300**	0.0200 U	**0.00400**	0.0200 U	0.0200 U	5.3	Eco	5.3	Eco
Cadmium	**0.00800**	0.00700 U	0.00800 U	0.00700 U	**0.0100 J**	0.25	Eco	0.25	Eco
Chromium	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	74	Eco	74	Eco
Cobalt	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	23	Eco	11	HH
Copper	**0.520**	**0.450**	**0.440**	**0.480**	**0.460**	9	Eco	9	Eco
Lead	**0.0360**	**0.0220**	0.00300 U	**0.0140 J**	0.00900 U	2.5	Eco	2.5	Eco
Mercury	0.0300 U	0.0300 U	0.0300 U	0.0300 U	0.0300 U	0.77	Eco	0.77	Eco
Nickel	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	52	Eco	52	Eco
Thallium	**0.0300**	**0.0240**	**0.0310**	**0.0230**	**0.0240**	0.24	HH	2	HH
Vanadium	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	20	Eco	2.6	HH
Zinc	**7.50**	7.00 U	7.00 U	7.00 U	7.00 U	120	Eco	120	Eco
Total Petroleum Hydrocarbons (µg/L)									
Diesel Range Organics	**15.0 J**	11.0 U	**15.0 J**	11.0 U	11.0 U	--	--	90	HH
Residual Range Organics	110 U	100 U	120 U	100 U	19.0 U	--	--	290	HH
Dissolved Petroleum Hydrocarbons (µg/L)									
Diesel Range Organics	**15.0 J**	**14.0 J**	**28.0 J**	**46.0 J**	**18.0 J**	--	--	90	HH
Residual Range Organics	110 U	19.0 U	120 U	100 U	100 U	--	--	290	HH
General Chemistry Parameters (mg/L)									
Total Chloride	**3.20**	**4.20**	**2.90**	**3.30**	**3.30**	230	Eco	230	Eco
Total Sulfate	**13.3**	**14.7**	**13.8**	**14.7**	**14.9**	--	--	--	--
Total Nitrate+Nitrite Nitrogen	**0.200**	**0.300**	**0.200**	**0.200**	**0.200**	--	--	10	HH
Total Organic Carbon	**1.90**	**1.80**	**1.80**	**1.90**	**1.70**	--	--	--	--
Dissolved Organic Carbon	**2.10**	**1.80**	**1.80**	**1.70**	**1.80**	--	--	--	--

Notes:

µg/L = Microgram per liter
mg/L = Milligram per liter
Eco = Ecological
HH = Human Health
MDL = Method detection limit
SLV = Screening level value
- = Result not available
-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV

Table 6-12d
Reference Area Surface Water Analytical Results for Grab Samples
Metals, Petroleum Hydrocarbons, and General Chemistry Parameters

Area	Reference	Reference	Reference	Reference	Reference
Site ID	P57*	P58	P59	P60	P61
Sample ID	08022757SW	08030758SW	08022959SW	08030460SW	08030661SW
Sample Date	2/27/2008	3/7/2008	2/29/2008	3/4/2008	3/6/2008
Total Metals (µg/L)					
Aluminum	**91.0**	**118**	**123**	**100**	**115**
Antimony	7.00 U	7.00 U	7.00 U	**9.30 J**	7.00 U
Arsenic	**0.910**	1.05 U	**1.22**	**1.25**	**1.22**
Barium	**21.0**	**22.1**	**25.0**	**25.3**	**25.6**
Beryllium	0.0200 U	0.00800 U	**0.0210**	**0.00900 J**	**0.0110 J**
Cadmium	**0.0100 J**	0.0200 U	**0.0210**	0.0200 U	0.0200 U
Chromium	2.00 U	2.00 U	2.00 U	2.00 U	**2.00 J**
Cobalt	**2.00 J**	2.00 U	2.00 U	2.00 U	2.00 U
Copper	**0.605**	**0.770**	**0.710**	**0.760**	**0.830**
Lead	**0.0580**	**0.203**	**0.0910**	**0.0770**	**0.0920**
Mercury	0.0300 U	0.0300 U	0.0300 U	0.0300 U	0.0300 U
Nickel	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Thallium	**0.0205**	0.0200 U	0.0370 U	0.0240 U	0.0270 U
Vanadium	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Zinc	7.00 U	7.00 U	7.00 U	7.00 U	7.00 U
Dissolved Metals (µg/L)					
Aluminum	**27.0 J**	20.0 U	20.0 U	20.0 U	20.0 U
Antimony	7.00 U	7.00 U	7.00 U	7.00 U	7.00 U
Arsenic	**0.935**	1.15 U	**1.26**	1.10 U	1.14 U
Barium	**21.5**	**22.2**	**23.5**	**23.3**	**23.5**
Beryllium	0.0200 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U
Cadmium	0.00700 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U
Chromium	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Cobalt	**2.20 J**	2.00 U	2.00 U	2.00 U	2.00 U
Copper	**0.450**	**0.550**	**0.550**	**0.600**	**0.610**
Lead	**0.0140 J**	**0.0150**	0.0090 U	0.00900 U	**0.0240**
Mercury	0.0300 U	0.0300 U	0.0300 U	0.0300 U	0.0300 U
Nickel	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Thallium	**0.0185 J**	**0.0200**	0.0240 U	0.0200 U	0.0200 U
Vanadium	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Zinc	7.00 U	7.00 U	7.00 U	7.00 U	7.00 U
Total Petroleum Hydrocarbons (µg/L)					
Diesel Range Organics	11.0 U	12.0 U	**13.0 J**	**14.0 J**	**19.0 J**
Residual Range Organics	100 U	20 U	**24 J**	**22 J**	**71 J**
Dissolved Petroleum Hydrocarbons (µg/L)					
Diesel Range Organics	11.0 U	12.0 U	11.0 U	**13.0 J**	12.0 U
Residual Range Organics	100 U	21 U	**24 J**	**20 J**	**21 J**
General Chemistry Parameters (mg/L)					
Total Chloride	**3.30**	**3.20**	**3.50**	**3.50**	**3.30**
Total Sulfate	**14.0**	**13.9**	**14.5**	**14.3**	**14.5**
Total Nitrate+Nitrite Nitrogen	**0.200**	**0.250**	**0.290**	**0.300**	**0.310**
Total Organic Carbon	**1.70**	**1.90**	**1.80**	**2.00**	**2.10**
Dissolved Organic Carbon	**1.70**	**1.80**	**1.80**	**1.80**	**2.30**

Notes:

µg/L = Microgram per liter
mg/L Milligram per liter
MDL = Method detection limit
- = Result not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-13a
Goose Island Area Crayfish, Sculpin, and Clam Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, Metals, and Semivolatile Organic Compounds

Area	Forebay - Goose Island	Forebay - Goose Island	Forebay - Goose Island	Selected SLV (Crayfish)	SLV Source (Crayfish)	Selected SLV (Sculpin and Clam)	SLV Source (Sculpin and Clam)
Site ID	P110	P110	P110				
Sample ID	090429110CF	090429110SC	090429110TC				
Sample Date	4/29/2009	4/29/2009	4/29/2009				
Percent Lipds	0.62	4.2	3.0				
Medium	Crayfish Tissue	Sculpin Tissue	Clam Tissue				
PCB Aroclors (µg/kg wet)							
Aroclor 1016	2.40 U	-	6.10 UJ	0.570	HH	35.0	Eco
Aroclor 1221	2.60 U	-	5.90 UJ	0.570	HH	35.0	Eco
Aroclor 1232	2.30 U	-	9.70 UJ	0.570	HH	35.0	Eco
Aroclor 1242	2.20 U	-	6.60 UJ	0.570	HH	35.0	Eco
Aroclor 1248	0.510 U	-	5.20 UJ	0.570	HH	35.0	Eco
Aroclor 1254	1.80 U	-	14.0 UJ	0.570	HH	35.0	Eco
Aroclor 1260	1.90 U	-	6.30 UJ	0.570	HH	35.0	Eco
Aroclor 1262	2.50 U	-	3.20 UJ	0.570	HH	35.0	Eco
Aroclor 1268	2.00 U	-	2.00 UJ	0.570	HH	35.0	Eco
Total PCBs as Aroclors (NDs at MDL) [1]	2.60 U	-	14.0 UJ	0.570	HH	35.0	Eco
PCB Dioxin-Like Congeners (µg/kg wet)							
PCB 77	**0.00226**	**0.00799**	**0.0337**	0.0760	HH	0.160	Eco
PCB 81	0.000145 U	0.000882 EMPC	0.00217 EMPC	0.0250	HH	0.0800	Eco
PCB 105	**0.00624**	**0.362**	**0.352**	0.250	HH	20.0	Eco
PCB 114	**0.00235**	**0.0220**	**0.0228**	0.250	HH	20.0	Eco
PCB 118	**0.0870**	**0.872**	**1.59**	0.250	HH	20.0	Eco
PCB 123	**0.00256**	**0.0163**	**0.0280**	0.250	HH	20.0	Eco
PCB 126	0.000261 EMPC	**0.00315**	**0.00307**	0.0000760	HH	0.00580	Eco
PCB 156	**0.0133 C**	**0.106 C**	**0.0969 C**	0.250	HH	20.0	Eco
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**			0.250	HH	20.0	Eco
PCB 167	**0.0112**	**0.0348**	**0.0925**	0.250	HH	20.0	Eco
PCB 169	0.000164 U	0.00131 U	0.00108 U	0.000250	HH	0.0200	Eco
PCB 189	**0.000662**	**0.00383**	**0.00157**	0.250	HH	20.0	Eco
Total PCBs as Congeners (KM, capped)	**0.587 J**	**8.14 J**	**21.4 J**	0.570	HH	35.0	Eco
Metals (mg/kg wet)							
Aluminum	**147**	-	**75.5**	--	--	--	--
Antimony	**0.00800 J**	-	0.00100 U	--	--	--	--
Arsenic	**0.303**	-	**1.59**	0.000760	HH	6.60	Eco
Barium	**57.0**	-	**1.66**	--	--	--	--
Beryllium	**0.00400 J**	-	**0.00200 J**	--	--	--	--
Cadmium	**0.0769**	-	**0.243**	0.150	Eco	0.150	Eco
Chromium	**0.190**	-	**0.492**	--	--	--	--
Cobalt	**0.391**	-	**0.0996**	--	--	--	--
Copper	**15.5**	-	**6.75**	--	--	--	--
Lead	**0.471**	-	**0.0615**	0.120	Eco	0.120	Eco
Mercury	**0.0359 J**	-	**0.0163 J**	0.0490	HH	0.0740	Eco
Methyl Mercury	-	-	-	--	--	--	--
Nickel	**1.21**	-	**0.221**	--	--	--	--
Thallium	**0.0128**	-	**0.00650**	--	--	--	--
Vanadium	**0.729**	-	**0.253**	--	--	--	--
Zinc	**20.3**	-	**20.5**	--	--	--	--
Semivolatile Organic Compounds (µg/kg wet)							
Bis(2-ethylhexyl) Phthalate	66.0 U	-	66.0 U	81.9	HH	1,760	Eco
Butyl Benzyl Phthalate	7.30 U	-	7.30 U	310	Eco	310	Eco
Carbazole	7.70 U	-	7.70 U	-	-	--	--
Di-n-butyl Phthalate	140 U	-	170 U	626	Eco	626	Eco
Di-n-octyl Phthalate	11.0 U	-	11.0 U	626	Eco	626	Eco
p-cresol (4-Methylphenol)	11.0 U	-	**29.0 J**	-	-	--	--
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg wet)							
Acenaphthene	0.500 U	-	**0.680**	15,000	HH	19,000	Eco
Anthracene	**0.430 J**	-	**1.20**	15,000	HH	19,000	Eco
Fluorene	**0.510**	-	**1.80**	15,000	HH	19,000	Eco
Phenanthrene	**0.820**	-	**10.0**	15,000	HH	19,000	Eco
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg wet)							
Benzo(a)anthracene	0.500 U	-	**3.40**	1.57	HH	1,000	Eco
Benzo(a)pyrene	0.0610 U	-	**0.750**	0.157	HH	1,000	Eco
Benzo(b)fluoranthene	**0.150 J**	-	**2.20**	1.57	HH	1,000	Eco
Benzo(g,h,i)perylene	**0.110 J**	-	**0.740**	15.7	HH	1,000	Eco
Benzo(k)fluoranthene	**0.110 J**	-	**1.30**	15.7	HH	1,000	Eco
Chrysene	0.200 U	-	**2.50**	157	HH	1,000	Eco
Dibenz(a,h)anthracene	0.0450 U	-	**0.480 J**	0.157	HH	1,000	Eco
Fluoranthene	0.500 U	-	**18.0**	19,000	Eco	19,000	Eco
Indeno(1,2,3-cd)pyrene	**0.150 J**	-	**0.890**	1.57	HH	1,000	Eco
Pyrene	0.500 U	-	**5.40**	1,000	Eco	1,000	Eco

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
RDL = reported detection limit
- = Not Analyzed
-- = SLV for analyte not available
ND = Non Detect
J = The reported value is an estimate.

[1] Only Aroclor 1254 was included in summing clam Total PCBs as Aroclors because all other aroclors were undected in Forebay clam samples.
The crayfish Total PCBs as Aroclors is shown as the maximum MDL because all aroclors were undected in Forebay crayfish samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
bold = analyte detected above MDL/RDL.
= The reported concentration exceeds the selected SLV

Table 6-13b
Mouth of Eagle Creek and Goose Island Area Sediment Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, Metals, Petroleum Hydrocarbons, Semivolatile Organic Compounds, General Chemistry Parameters, and Grain Size

Area	Forebay - Eagle Creek	Forebay - Eagle Creek	Forebay - Goose Island	Forebay - Goose Island	Selected SLV	SLV Source
Site ID	P43	P44	P110	P111		
Sample ID	08032043SD	08032044SD	090427110SD	090429111SD		
Sample Date	3/20/2008	3/20/2008	4/27/2009	4/29/2009		
PCB Aroclors (µg/kg dry)						
Aroclor 1016	1.70 U	1.70 U	2.50 U	2.70 U	0.0480	HH
Aroclor 1221	1.70 U	1.70 U	2.50 U	2.70 U	0.0480	HH
Aroclor 1232	1.70 U	1.70 U	2.50 U	2.70 U	0.0480	HH
Aroclor 1242	1.70 U	1.70 U	2.50 U	2.70 U	0.0480	HH
Aroclor 1248	**76.0**	1.70 U	2.50 U	2.70 U	0.0480	HH
Aroclor 1254	1.70 U	1.70 U	2.50 U	**9.90 J**	0.0480	HH
Aroclor 1260	1.70 U	1.70 U	2.50 UJ	2.70 UJ	0.0480	HH
Aroclor 1262	1.70 U	1.70 U	-	-	0.0480	HH
Aroclor 1268	1.70 U	1.70 U	-	-	0.0480	HH
Total PCBs as Aroclors (NDs at MDL) [1]	**77.7 J**	3.40 U	5.00 U	**12.6 J**	0.0480	HH
PCB Dioxin-Like Congeners (µg/kg dry)						
PCB 77	-	-	**0.00285**	**0.00353**	0.00640	HH
PCB 81	-	-	**0.000135**	0.000150 EMPC	0.00210	HH
PCB 105	-	-	**0.0249**	**0.0277**	0.0210	HH
PCB 114	-	-	**0.00129**	**0.00137**	0.0210	HH
PCB 118	-	-	**0.0657**	**0.0695**	0.0260	HH
PCB 123	-	-	**0.000963**	0.000970 EMPC	0.0260	HH
PCB 126	-	-	0.000255 EMPC	0.000419 EMPC	0.00000620	HH
PCB 156	-	-	**0.00850 C**	**0.0104 C**	0.0260	HH
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**				0.0260	HH
PCB 167	-	-	**0.00402**	**0.00381**	0.0260	HH
PCB 169	-	-	0.000241 U	0.000250 U	0.0000210	HH
PCB 189	-	-	**0.000615**	**0.000869**	0.140	HH
Total PCBs as Congeners (KM, capped)	-	-	**1.20 J**	**1.34 J**	0.0480	HH
Metals (mg/kg dry)						
Aluminum	**16,300**	**18,000**	**17,100**	**18,800**	38,000	UPL
Antimony	**0.0400 J**	**0.0800 J**	**0.440**	**0.580**	3.00	Eco
Arsenic	**0.680**	**3.23**	**4.00**	**4.25**	6.00	Eco
Barium	**74.4**	**110**	**112**	**131**	315	UPL
Beryllium	**0.353**	**0.371**	**0.561**	**0.505**	0.847	UPL
Cadmium	0.0750 U	0.131 U	**0.887**	**1.17**	0.674	UPL
Chromium	**20.2**	**23.5**	**20.6**	**21.6**	37.0	Eco
Cobalt	**11.0**	**9.93**	**11.6**	**11.2**	15.2	UPL
Copper	**16.6**	**24.8**	**32.6**	**34.2**	55.6	UPL
Lead	**4.19**	**10.9**	**13.1**	**13.6**	35.0	Eco
Mercury	**0.00700**	**0.0290**	**0.181**	**0.179**	0.214	UPL
Nickel	**19.9**	**15.6**	**19.4**	**18.1**	21.2	UPL
Thallium	0.0560 U	0.156 U	**0.272**	**0.435**	0.354	UPL
Vanadium	**70.3**	**62.5**	**61.5**	**59.3**	70.6	UPL
Zinc	**52.7**	**65.1**	**115**	**148**	123	Eco
Petroleum Hydrocarbons (mg/kg dry)						
Diesel Range Organics	**2.90 J**	**13.0 J**	**53.0 J**	**49.0 J**	--	--
Residual Range Organics	150 U	150 U	**480**	**410**	--	--
Semivolatile Organic Compounds (µg/kg dry)						
Bis(2-ethylhexyl) Phthalate	200 U	200 U	**13.0 J**	**9.90 J**	750	Eco
Butyl Benzyl Phthalate	9.90 U	9.90 U	1.80 U	1.90 U	110	Eco
Carbazole	1.30 U	**2.20 J**	1.60 U	1.70 U	140	Eco
Di-n-butyl Phthalate	9.90 U	11.0 U	**10.0 J**	**5.60 J**	110	Eco
Di-n-octyl Phthalate	1.20 U	1.20 U	1.50 U	1.60 U	110	Eco
p-cresol (4-Methylphenol)	2.90 U	2.90 U	**8.50 J**	3.70 U	--	--
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)						
Acenaphthene	1.00 U	1.00 U	1.20 U	1.30 U	*290*	*Eco*
Anthracene	1.40 U	**2.60 J**	1.70 U	1.80 U	57.0	Eco
Fluorene	1.70 U	1.70 U	2.10 U	2.20 U	*77.0*	*Eco*
Phenanthrene	**2.30 J**	**6.50 J**	**3.80 J**	**4.60 J**	42.0	Eco
Total LPAHs (KM, capped; NDs at MDL)	**6.40 J**	**11.8 J**	**8.80 J**	**9.90 J**	76.0	Eco
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)						
Benzo(a)anthracene	1.40 U	**6.60 J**	**4.20 J**	**7.80 J**	32.0	Eco
Benzo(a)pyrene	1.60 U	**7.10 J**	**8.70 J**	**13.0 J**	32.0	Eco
Benzo(b)fluoranthene	2.50 U	**11.0**	**6.50 J**	**15.0**	27.0	Eco
Benzo(g,h,i)perylene	2.30 U	**5.00 J**	**5.60 J**	**9.90 J**	300	Eco
Benzo(k)fluoranthene	2.50 U	**3.40 J**	3.00 U	**4.10 J**	27.0	Eco
Chrysene	**1.80 J**	**13.0**	**5.80 J**	**11.0 J**	57.0	Eco
Dibenz(a,h)anthracene	2.20 U	2.20 U	2.70 U	2.80 U	33.0	Eco
Fluoranthene	2.20 U	**11.0**	**7.30 J**	**9.60 J**	111	Eco
Indeno(1,2,3-cd)pyrene	1.90 U	**4.60 J**	**5.00 J**	**7.10 J**	17.0	Eco
Pyrene	**3.40 J**	**17.0**	**7.20 J**	**8.80 J**	53.0	Eco
Total HPAHs (KM, capped; NDs at MDL)	**17.2 J**	**80.9 J**	**55.7 J**	**89.1 J**	193	Eco
Total Polycyclic Aromatic Hydrodarbons (PAHs) (µg/kg dry)						
Total PAHs (KM, capped; NDs at MDL)	**19.5 J**	**90.8 J**	**60.1 J**	**96.1 J**	1600	Eco
General Chemistry Parameters (mg/kg dry) and Grain Size (%)						
Carbon, Total Organic	**2,300**	**5,700**	**25,600**	**11,000**	--	--
Gravel (>2.00 mm)	**15.2**	**37.4**	**5.84**	**1.94**	--	--
Sand, Very Coarse (1.00 - 2.00 mm)	**10.9**	**9.70**	**7.41**	**1.77**	--	--
Sand, Coarse (0.50 - 1.00 mm)	**27.7**	**13.3**	**5.99**	**1.31**	--	--
Sand, Medium (0.25 - 0.50 mm)	**27.5**	**13.9**	**5.74**	**2.04**	--	--
Sand, Fine (0.125 - 0.25 mm)	**14.5**	**14.6**	**7.56**	**5.34**	--	--
Sand, Very Fine (0.0625 - 0.125 mm)	**2.23**	**5.84**	**8.44**	**14.3**	--	--
Silt (0.039 - 0.0625 mm)	**2.00**	**6.09**	**42.9**	**59.6**	--	--
Clay (<0.039 mm)	**0.470**	**0.920**	**11.8**	**10.3**	--	--

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
Eco = Ecological
HH = Human Health
MDL = method detection limit
ND = Non Detect
SLV = screening level value
RDL = reported detection limit
UPL = Reference Area Upper Prediction Limit
- = Not Analyzed
-- = SLV for analyte not available

[1] Only Aroclors 1248 and 1254 were included in summing sediment Total PCBs as Aroclors because all other aroclors were undected in Forebay sediment
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
bold = analyte detected above MDL/RDL.
= The reported concentration exceeds the selected SLV

Table 6-14
Post-Removal Downstream Area Sediment Analytical Results
PCB Aroclors, PCB Congeners, Metals, Petroleum Hydrocarbons, Semivolatile Organic Compounds, General Chemistry Parameters, and Grain Size

Area	Downstream	Downstream	Downstream	Downstream	Downstream	Downstream	Selected SLV	SLV Source
Site ID	P46	P47	P48	P49	P50	P51		
Sample ID	08031046SD	08031047SD	08031048SD	08031049SD	08031150SD	08031151SD		
Sample Date	3/10/2008	3/10/2008	3/10/2008	3/10/2008	3/11/2008	3/11/2008		
PCB Aroclors (µg/kg dry)								
Aroclor 1016	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1221	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1232	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1242	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1248	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1254	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1260	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1262	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1268	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Total PCBs as Aroclors (NDs at MDL) [1]	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
PCB Dioxin-Like Congeners (µg/kg dry)								
PCB 77	0.000259 EMPC	0.000531 EMPC	**0.000478**	**0.00160**	**0.00201**	**0.000573**	0.00640	HH
PCB 81	0.0000831 U	0.0000707 U	0.0000492 U	**0.000260**	0.000100 U	0.0000981 U	0.00210	HH
PCB 105	**0.00179**	**0.00626**	**0.00426**	**0.00943**	**0.0197**	**0.00398**	0.0210	HH
PCB 114	0.0000976 U	**0.000383**	**0.000239**	**0.000650**	**0.000957**	**0.000315**	0.0210	HH
PCB 118	**0.00409**	**0.0132**	**0.00918**	**0.0167**	**0.0456**	**0.0109**	0.0260	HH
PCB 123	0.000168 EMPC	**0.000271**	**0.000130**	**0.000497**	**0.000874**	**0.000226**	0.0260	HH
PCB 126	0.000113 U	0.0000805 U	0.0000787 U	0.000171 U	**0.000211**	0.0000962 U	0.00000620	HH
PCB 156	0.000604 EMPC	**0.00182 C**	0.00139 C EMPC	**0.00289 C**	**0.00625 C**	**0.00174 C**	0.0260	HH
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**						0.0260	HH
PCB 167	**0.000320**	**0.000697**	**0.000554**	**0.00103**	**0.00261**	**0.000765**	0.0260	HH
PCB 169	0.0000697 U	0.0000894 U	0.0000630 U	0.0000900 U	0.000154 U	0.0000837 U	0.0000210	HH
PCB 189	0.0000733 U	0.000115 EMPC	**0.0000970**	**0.000254**	**0.000596**	**0.000140**	0.140	HH
Total PCBs as Congeners (KM, capped)	**0.0880 J**	**0.215 J**	**0.173 J**	**0.418 J**	**0.917 J**	**0.213 J**	0.0480	HH
Metals (mg/kg dry)								
Aluminum	**20,700**	**10,600**	**11,100**	**10,600**	**18,800**	**21,600**	38,000	UPL
Antimony	**0.240 J**	**0.0600 J**	**0.0800 J**	**0.120 J**	**0.230 J**	**0.400 J**	3.00	Eco
Arsenic	**5.84**	**3.72**	**2.48**	**2.80**	**3.25**	**5.71**	6.00	Eco
Barium	**161**	**96.5**	**99.0**	**124**	**172**	**140**	315	UPL
Beryllium	**0.444**	**0.288**	**0.286**	**0.300**	**0.472**	**0.513**	0.847	UPL
Cadmium	**0.209**	**0.290**	**0.229**	**0.345**	**0.791**	**0.308**	0.674	UPL
Chromium	**25.0**	**16.1**	**20.1**	**19.7**	**22.8**	**29.9**	37.0	Eco
Cobalt	**10.1**	**7.05**	**6.93**	**8.06**	**8.53**	**11.5**	15.2	UPL
Copper	**20.0**	**12.5**	**13.3**	**14.5**	**20.9**	**24.1**	55.6	UPL
Lead	**8.18**	**8.50**	**6.67**	**11.6**	**12.7**	**9.00**	35.0	Eco
Mercury	**0.0340**	**0.0330**	**0.0690**	**0.0480**	**0.136**	**0.0580**	0.214	UPL
Nickel	**12.5**	**13.2**	**13.0**	**13.6**	**14.1**	**15.2**	21.2	UPL
Thallium	**0.163**	**0.165**	0.130 U	**0.205**	**0.234**	**0.178**	0.354	UPL
Vanadium	**65.0**	**43.8**	**44.6**	**47.4**	**49.8**	**73.5**	70.6	UPL
Zinc	**67.7**	**79.6**	**56.7**	**105**	**117**	**70.5**	123	Eco
Petroleum Hydrocarbons (mg/kg dry)								
Diesel Range Organics	**8.20 J**	**8.10 J**	**8.70 J**	**5.90 J**	**21.0**	**25.0**	--	--
Residual Range Organics	140 U	140 U	150 U	**41.0 J**	180 U	150 U	--	--
Semivolatile Organic Compounds (µg/kg dry)								
Bis(2-ethylhexyl) Phthalate	200 U	200 U	200 U	200 U	200 U	200 U	750	Eco
Butyl Benzyl Phthalate	1.50 U	1.50 U	1.50 U	9.90 U	1.50 U	1.50 U	110	Eco
Carbazole	1.30 U	1.30 U	1.30 U	1.30 U	**1.60 J**	1.30 U	140	Eco
Di-n-butyl Phthalate	11.0 U	11.0 U	14.0 U	10.0 U	9.90 U	9.80 U	110	Eco
Di-n-octyl Phthalate	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	110	Eco
p-cresol (4-Methylphenol)	2.90 U	2.90 U	2.90 U	2.90 U	**130**	**3.40 J**	--	--
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)								
Acenaphthene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	290	Eco
Anthracene	**2.70 J**	1.40 U	1.40 U	1.40 U	**3.10 J**	**1.60 J**	57.0	Eco
Fluorene	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	77.0	Eco
Phenanthrene	**4.80 J**	1.30 U	1.30 U	**2.20 J**	**4.90 J**	**4.00 J**	42.0	Eco
Total LPAHs (KM, capped; NDs at MDL)	**10.2 J**	5.40 U	5.40 U	**6.30 J**	**10.7 J**	**8.30 J**	76.0	Eco
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)								
Benzo(a)anthracene	**9.60 J**	**1.70 J**	**1.80 J**	**3.30 J**	**12.0**	**3.70 J**	32.0	Eco
Benzo(a)pyrene	**11.0**	**1.90 J**	1.60 U	**4.30 J**	**14.0**	**4.50 J**	32.0	Eco
Benzo(b)fluoranthene	**9.70 J**	2.50 U	2.50 U	**4.50 J**	**16.0**	**3.30 J**	27.0	Eco
Benzo(g,h,i)perylene	**5.80 J**	2.30 U	2.30 U	**2.80 J**	**6.80 J**	2.30 U	300	Eco
Benzo(k)fluoranthene	**4.20 J**	2.50 U	2.50 U	2.50 U	**6.50 J**	2.50 U	27.0	Eco
Chrysene	**9.60 J**	**1.60 J**	1.40 U	**3.50 J**	**18.0**	**3.40 J**	57.0	Eco
Dibenz(a,h)anthracene	2.20 U	2.20 U	2.20 U	2.20 U	**2.30 J**	2.20 U	33.0	Eco
Fluoranthene	**20.0**	**2.90 J**	2.20 U	**4.30 J**	**22.0**	**6.20 J**	111	Eco
Indeno(1,2,3-cd)pyrene	**6.30 J**	1.90 U	1.90 U	**2.80 J**	**8.20 J**	1.90 U	17.0	Eco
Pyrene	**20.0**	**2.60 J**	**1.80 J**	**4.60 J**	**21.0**	**6.40 J**	53.0	Eco
Total HPAHs (KM, capped; NDs at MDL)	**98.4 J**	**19.2 J**	**16.0 J**	**34.5 J**	**127 J**	**35.1 J**	193	Eco
Total Polycyclic Aromatic Hydrodarbons (PAHs) (µg/kg dry)								
Total PAHs (KM, capped; NDs at MDL)	**107 J**	**21.4 J**	**16.8 J**	**37.5 J**	**137 J**	**40.6 J**	1600	Eco
General Chemistry Parameters (mg/kg dry) and Grain Size (%)								
Carbon, Total Organic	**3,600**	**3,400**	**3,600**	**7,500**	**11,500**	**5,200**	--	--
Gravel (>2.00 mm)	**0.0600**	**0.640**	**1.66**	**0.530**	**1.53**	**4.58**	--	--
Sand, Very Coarse (1.00 - 2.00 mm)	**0.160**	**2.42**	**1.03**	**0.380**	**2.02**	**6.61**	--	--
Sand, Coarse (0.50 - 1.00 mm)	**0.330**	**15.6**	**1.57**	**0.630**	**2.86**	**10.3**	--	--
Sand, Medium (0.25 - 0.50 mm)	**11.6**	**43.8**	**31.1**	**6.31**	**2.92**	**24.4**	--	--
Sand, Fine (0.125 - 0.25 mm)	**65.3**	**26.7**	**35.6**	**66.4**	**10.2**	**30.1**	--	--
Sand, Very Fine (0.0625 - 0.125 mm)	**20.6**	**3.89**	**9.19**	**16.2**	**35.7**	**9.35**	--	--
Silt (0.039 - 0.0625 mm)	**0.0200**	**8.13**	**15.1**	**5.33**	**39.1**	**9.71**	--	--
Clay (<0.039 mm)	**8.74**	**0.440**	**1.97**	**1.31**	**5.76**	**1.22**	--	--

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
Eco = Ecological
HH = Human Health
MDL = method detection limit
ND = Non Detect
RDL = reported detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit
- = Not Analyzed
-- = SLV for analyte not available

[1] Total PCBs as Aroclors is shown as the maximum MDL because all aroclors were undected in Downstream sediment samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
bold = analyte detected above MDL/RDL.
= The reported concentration exceeds the selected SLV

Table 6-2a
2009 Landfill Soil Analytical Results
Volatile and Semivolatile Organic Compounds, Total Solids, and Grain Size

Site ID	L-01	L-01	L-02	L-02	L-03	L-03	L-04*	L-04	LF-EUA	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	090129-L-L1-0-1So	090129-L-L1-1-3So	090129-L-L2-0-1So	090129-L-L2-1-3So	090129-L-L3-0-1So	090129-L-L3-1-3So	090129-L-L4-0-1So	090129-L-L4-1-3So	090319-LF-EUA-So		
Sample Date	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	3/19/2009		
Sample Depth (Feet bgs)	0.0-1.0	1.0-3.0	0.0-1.0	1.0-3.0	0.0-1.0	1.0-3.0	0.0-1.0	1.0-3.0	0.0-0.17		
Volatile Organic Compounds (µg/kg dry)											
o-Xylene	0.0950 U	0.0590 U	0.0590 U	0.0590 U	0.0590 U	0.0590 U	0.0620 U	0.0590 U	-	1,000	Eco
Tetrachloroethene (PCE)	**2.90 J**	**25.0 J**	**1.50 J**	**19.0 J**	**5.90 J**	**2.80 J**	**9.70 J**	**27.0 J**	-	1,600	HH
Toluene	**1.30 J**	**3.90 J**	**0.350 J**	**0.900 J**	**0.690 J**	**0.170 J**	**1.46 J**	**1.80 J**	-	200,000	Eco
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)											
Acenaphthene	**66.0**	**170**	**220**	**1,900**	**700**	**360**	**1,160**	**420**	-	19,000,000	HH
Acenaphthylene	**3.40**	**12.0**	**15.0**	**41.0**	**13.0**	**15.0**	**19.0**	**13.0**	-	23,000	HH
Anthracene	**99.0**	**400**	**650**	**2,100**	**880**	**900**	**1,070**	**740**	-	93,000,000	HH
Fluorene	**33.0**	**99.0**	**130**	**630**	**340**	**210**	**510**	**240**	-	12,000,000	HH
Naphthalene	**5.00**	**22.0**	**14.0**	**140**	**49.0**	**49.0**	**79.0**	**57.0**	-	23,000	HH
Phenanthrene	**350**	**1,500**	**2,000**	**7,400**	**3,400**	**2,800**	**4,200**	**2,800**	-	93,000,000	HH
Total LPAHs (KM, capped; NDs at MDL)	**556**	**2,203**	**3,029**	**12,211**	**5,382**	**4,334**	**7,043**	**4,270**	-	29,000	Eco
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)											
Benzo(a)anthracene	**690**	**4,500**	**4,100**	**11,000**	**4,500**	**4,800**	**4,500**	**4,800**	-	2,700	HH
Benzo(a)pyrene	**820**	**5,800**	**4,700**	**16,000**	**5,900**	**5,800**	**5,800**	**6,200**	-	270	HH
Benzo(b)fluoranthene	**990**	**7,100**	**5,700**	**16,000**	**6,400**	**6,500**	**6,500**	**7,200**	-	2,700	HH
Benzo(g,h,i)perylene	**460**	**3,300**	**2,500**	**9,500**	**3,300**	**3,100**	**3,250**	**3,500**	-	27,000	HH
Benzo(k)fluoranthene	**310**	**2,400**	**2,000**	**5,900**	**2,300**	**2,400**	**2,300**	**2,500**	-	27,000	HH
Chrysene	**790**	**5,000**	**4,900**	**14,000**	**5,000**	**5,400**	**5,150**	**5,600**	-	270,000	HH
Dibenz(a,h)anthracene	**130**	**970**	**710**	**2,300**	**1,000**	**900**	**900**	**1,100**	-	270	HH
Fluoranthene	**1,200**	**7,700**	**7,000**	**21,000**	**8,200**	**8,700**	**8,700**	**8,600**	-	8,900,000	HH
Indeno(1,2,3-cd)pyrene	**620**	**4,500**	**3,500**	**13,000**	**4,600**	**4,400**	**4,450**	**4,900**	-	2,700	HH
Pyrene	**1,200**	**7,500**	**6,700**	**21,000**	**7,900**	**9,400**	**8,150**	**8,600**	-	6,700,000	HH
Total HPAHs (KM, capped; NDs at MDL)	**7,210**	**48,770**	**41,810**	**129,700**	**49,100**	**51,400**	**49,700**	**53,000**	-	1,100	Eco
Total Solids (mg/kg) and Grain Size (%)											
Solids, Total	**750,000**	**820,000**	**807,000**	**835,000**	**833,000**	**836,000**	**828,000**	**858,000**	**667,000**	-	-
Gravel (>2.00 mm)	-	-	-	-	-	-	-	-	**52.6**	-	-
Sand, Very Coarse (1.00 - 2.00 mm)	-	-	-	-	-	-	-	-	**7.81**	-	-
Sand, Coarse (0.50 - 1.00 mm)	-	-	-	-	-	-	-	-	**5.66**	-	-
Sand, Medium (0.25 - 0.50 mm)	-	-	-	-	-	-	-	-	**6.07**	-	-
Sand, Fine (0.125 - 0.25 mm)	-	-	-	-	-	-	-	-	**7.17**	-	-
Sand, Very Fine (0.0625 - 0.125 mm)	-	-	-	-	-	-	-	-	**6.05**	-	-
Silt (0.039 - 0.0625 mm)	-	-	-	-	-	-	-	-	**16.6**	-	-
Clay (<0.039 mm)	-	-	-	-	-	-	-	-	**2.88**	-	-

Notes:

µg/kg = microgram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed

-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-2b
2008-2009 Landfill AOPC Quarterly Groundwater Analytical Results
Metals, Petroleum Hydrocarbons, Butyltins, Volatile Organic Compounds, Semivolatile Organic Compounds, and General Chemistry Parameters
(Page 1 of 3)

Site ID	MW-01	MW-01	MW-01	MW-01	MW-02	MW-02	MW-02	MW-02	MW-03	MW-03	MW-03	MW-03	MW-04	MW-04	MW-04	MW-04	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	080416MW1 GW	080718MW1GW	081024MW1GW	090115MW1GW	080416MW2 GW	080715MW2GW	081022MW2GW	090113MW2GW	080417MW3 GW	080717MW3GW	081023MW3GW	090113MW3GW	080417MW4 GW	080717MW4GW	081023MW4GW	090114MW4GW				
Sample Date	4/16/2008	7/18/2008	10/24/2008	1/15/2009	4/16/2008	7/15/2008	10/22/2008	1/13/2009	4/17/2008	7/17/2008	10/23/2008	1/13/2009	4/17/2008	7/17/2008	10/23/2008	1/14/2009				
Sample Depth (Feet btc)	25	28	31	31	27	27	27	28	16	19	20	19	27	26	23	18				
Sample Depth (Feet btc)	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater				
Total Metals (µg/L)																				
Arsenic	**21.3**	**19.6**	**16.2**	**15.8**	**6.93**	**9.06**	**8.81**	**8.20**	**0.350 J**	**0.400 J**	**0.520**	0.500 U	**0.550**	**0.300 J**	**0.340 J**	0.500 U	0.0180	HH	0.0380	HH
Iron	**75.5**	**7,910**	**2,620**	**4,710**	**185**	**178**	**174**	**198**	**112**	57.8 U	**9.40 J**	60.6 U	**746**	**14,700**	**28,100**	**156**	300	HH	26,000	HH
Lead	**0.558**	**6.36**	**1.70**	**1.44**	**0.397**	**0.556**	**0.343**	**0.377**	**0.154**	0.0560 U	0.0200 U	**0.0400**	**26.9**	**4.96**	**1.65**	**7.45**	-	-	15.0	HH
Manganese	**3.85**	**291**	**69.0**	**77.6**	**6.74**	**4.50 J**	**2.50**	**3.25**	**6.25**	**4.20 J**	**0.810**	**2.07**	**53.2**	**780**	**1,260**	**36.8**	50.0	HH	880	HH
Mercury	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.0	HH
Dissolved Metals (µg/L)																				
Arsenic	**19.3**	**18.3**	-	**14.2**	**7.98**	**9.11**	**8.54**	**8.30**	0.500 U	**0.220 J**	**0.640**	0.500 U	0.500 U	**0.410 J**	**0.370 J**	0.500 U	0.0180	HH	0.0380	HH
Calcium	**42,000**	-	-	-	**9,510**	-	-	-	**12,300**	-	-	-	**98,000**	-	-	-	116,000	Eco	116,000	Eco
Iron	**14.6 J**	**534**	-	20.0 U	**20.1**	20.0 U	**7.50 J**	20.0 U	**5.80 J**	4.00 U	4.00 U	20.0 U	**8.80 J**	**13,200**	**29,600**	27.7 U	300	HH	1,000	Eco
Lead	**0.281**	**0.536**	-	**0.0160 J**	0.00900 U	0.0520 U	0.0230 U	**0.0270 J**	**0.0120 J**	0.0300 U	0.0200 U	0.00600 U	**3.50**	**1.62**	**0.372**	**3.16**	2.50	Eco	2.50	Eco
Magnesium	**2,810**	-	-	-	**1,210**	-	-	-	**4,200**	-	-	-	**7,550**	-	-	-	82,000	Eco	82,000	Eco
Manganese	**0.280**	**22.8**	-	**11.3**	**0.120**	**1.10 J**	0.400 U	**0.330**	**0.550**	**0.400 J**	0.400 U	**0.450**	**53.1**	**737**	**1,340**	**37.1**	50.0	HH	120	Eco
Mercury	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.770	Eco	0.770	Eco
Potassium	**4,620**	-	-	-	**5,020**	-	-	-	**808 J**	-	-	-	**3,750**	-	-	-	53,000	Eco	53,000	Eco
Sodium	**355,000**	-	-	-	**77,400**	-	-	-	**4,100**	-	-	-	**4,040**	-	-	-	680,000	Eco	680,000	Eco
Total Petroleum Hydrocarbons (µg/L)																				
Diesel Range Organics	12.0 U	-	**480**	-	110 U	110 U	13.0 U	**19.0 J**	110 U	110 U	**13.0 J**	**23.0 J**	120 U	**130**	**120**	**210**	-	-	90.0	HH
Residual Range Organics	21.0 U	-	**200**	-	110 U	110 U	120 U	**57.0 J**	110 U	110 U	110 U	**51.0 J**	110 U	140 U	**160**	**160**	-	-	290	HH
Gasoline Range Organics	13.0 U	13.0 U	**14.0 J**	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	**18.0 J**	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	-	-	100	HH
Total Butyltins (µg/L)																				
Dibutyltin	0.00810 U	-	-	-	0.00810 U	0.00730 U	0.00730 U	0.00730 U	**0.0150 J**	**0.0910 J**	0.00730 U	0.00730 U	0.00810 U	**0.110 J**	0.00730 U	0.00730 U	0.0630	Eco	0.0630	Eco
Monobutyltin	0.0110 U	-	-	-	0.0110 U	**0.0290 J**	0.0290 U	0.0290 U	0.0110 U	0.0290 UJ	0.0290 U	0.0290 U	0.0110 U	0.0290 UJ	0.0290 U	0.0290 U	0.0630	Eco	0.0630	Eco
Total Volatile Organic Compounds (µg/L)																				
Chloroform	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	**2.20**	**0.100 J**	0.0820 U	**3.70**	5.70	HH	0.190	HH
Tetrachloroethene (PCE)	0.0970 U	0.0970 U	0.0970 U	0.0970 U	0.0970 U	0.0970 U	0.0970 U	0.0970 U	**6.80**	**7.20**	**5.90**	**5.70**	**0.250 J**	0.0970 U	0.0970 U	**0.230 J**	0.690	HH	0.0930	HH
Vinyl Chloride	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0440 U	**0.410 J**	**0.330 J**	0.0440 U	0.0250	HH	0.0250	HH
Total Semivolatile Organic Compounds (µg/L)																				
1,4-Dichlorobenzene	0.0310 U	-	-	-	0.0290 U	0.0290 U	0.0310 UJ	0.0330 U	0.0300 U	0.0320 U	0.0300 UJ	0.0300 U	0.0310 U	0.0290 U	0.0300 UJ	0.0340 U	15.0	Eco	0.420	HH
4-Nitrophenol	0.300 U	-	-	-	0.280 U	0.280 U	0.300 U	0.320 U	0.290 U	0.310 U	0.290 U	0.290 U	0.300 U	0.280 U	0.290 U	0.330 U	150	Eco	150	Eco
Phenanthrene	0.0230 U	-	-	-	0.0220 U	0.0220 U	0.0240 U	0.0250 U	0.0230 U	0.0240 U	0.0230 U	0.0230 U	0.0240 U	0.0220 U	0.0230 U	0.0260 U	6.30	Eco	0.140	HH
Phenol	0.0660 U	-	-	-	0.0630 U	0.0630 U	0.0680 U	0.0700 U	0.0650 U	0.0690 U	0.0650 U	0.0650 U	0.0670 U	0.0630 U	0.0640 U	0.0740 U	110	Eco	110	Eco
General Chemistry Parameters (mg/L)																				
Dissolved Bromide	**0.0720 J**	-	-	-	0.0100 U	-	-	-	0.0100 U	-	-	-	0.0100 U	-	-	-	-	-	-	-
Dissolved Chloride	**5.30**	-	-	-	**3.80**	-	-	-	**0.900**	-	-	-	**1.60**	-	-	-	230	Eco	230	Eco
Dissolved Fluoride	**0.500**	-	-	-	**0.0600 J**	-	-	-	0.200 U	-	-	-	**0.121 J**	-	-	-	-	-	1.50	HH
Dissolved Sulfate	**708**	-	-	-	**93.8**	-	-	-	**4.20**	-	-	-	**7.70**	-	-	-	-	-	-	-
Dissolved Ammonia	0.0500 U	-	-	-	0.0500 U	-	-	-	**0.100**	-	-	-	0.0500 U	-	-	-	-	-	-	-
Dissolved Nitrate+Nitrite	**0.470**	-	-	-	**0.0260 J**	-	-	-	**0.570**	-	-	-	**0.320**	-	-	-	-	-	10.0	HH
Total Organic Carbon	**2.80**	-	-	-	**1.30**	-	-	-	**1.80**	-	-	-	**3.90**	-	-	-	-	-	-	-
Dissolved Organic Carbon	**2.80**	-	-	-	**1.30**	-	-	-	**1.70**	-	-	-	**4.10 J**	-	-	-	-	-	-	-
Dissolved Bicarbonate as CaCO3	**66.0**	-	-	-	**96.0**	-	-	-	**44.0**	-	-	-	**287**	-	-	-	-	-	-	-
Dissolved Carbonate as CaCO3	1.00 U	-	-	-	1.00 U	-	-	-	1.00 U	-	-	-	1.00 U	-	-	-	-	-	-	-

Notes:

µg/L = microgram per liter
mg/L = milligram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed

-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-2b
2008-2009 Landfill AOPC Quarterly Groundwater Analytical Results
Metals, Petroleum Hydrocarbons, Butyltins, Volatile Organic Compounds, Semivolatile Organic Compounds, and General Chemistry Parameters
(Page 2 of 3)

Site ID	MW-05	MW-05	MW-05	MW-05	MW-06	MW-06*	MW-06*	MW-06*	MW-07*	MW-07	MW-07	MW-07	MW-08	MW-08	MW-08	MW-08	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	080416MW5 GW	080716MW5GW	081022MW5GW	090114MW5GW	080417MW6 GW	080716MW6GW	081022MW6GW	090114MW6GW	080416MW7 GW	080717MW07GW	081021MW7GW	090112MW7GW	080418MW8GW	080716MW8GW	081023MW8GW	090115MW8GW				
Sample Date	4/16/2008	7/16/2008	10/22/2008	1/14/2009	4/17/2008	7/16/2008	10/22/2008	1/14/2009	4/16/2008	7/17/2008	10/21/2008	1/12/2009	4/18/2008	7/16/2008	10/23/2008	1/15/2009				
Sample Depth (Feet btc)	30	30	30	32	28	28	28	30	28	30	20	20	58	55.5	55	57				
Sample Depth (Feet btc)	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater				
Total Metals (µg/L)																				
Arsenic	**2.65**	**2.85**	**4.16**	**2.30**	**2.69**	**3.21**	**3.50**	**2.90**	**15.9**	**16.8**	**17.4**	**18.7**	**6.86**	**5.76**	**5.40**	**7.20**	0.0180	HH	0.0380	HH
Iron	**19,300**	**21,500**	**25,100**	**21,300**	**25,100**	**23,800**	**25,850**	**28,150**	**29,000**	**30,700**	**36,600**	**35,700**	**854**	**631**	33.7 U	**112**	300	HH	26,000	HH
Lead	**0.442**	0.0740 U	0.0680 U	**0.102**	**0.0560**	0.0300 U	0.0200 U	0.00600 U	**0.272**	0.136 U	0.0380 U	**0.129**	**0.463**	**0.540**	**0.338**	**0.140**	-	-	15.0	HH
Manganese	**2,210**	**2,460**	**2,840**	**4,220**	**3,280**	**2,930**	**3,110**	**5,385**	**1,445**	**1,710**	**2,000**	**3,300**	**265**	**173**	**172**	**270**	50.0	HH	880	HH
Mercury	-	-	0.0500 U	-	-	-	0.0500 U	-	-	-	0.0500 U	-	**0.0300 J**	-	-	-	-	-	11.0	HH
Dissolved Metals (µg/L)																				
Arsenic	**2.52**	**2.97**	**3.68**	**2.30**	**2.33**	**3.18**	**3.54**	**2.90**	**10.7**	**14.7**	**15.7**	**16.7**	**7.92**	**5.65**	**5.24**	**7.10**	0.0180	HH	0.0380	HH
Calcium	**66,300**	-	-	-	**76,600**	-	-	-	**43,100**	-	-	-	**172,000**	-	-	-	116,000	Eco	116,000	Eco
Iron	**18,800**	**19,800**	**24,400**	**19,900**	**24,200**	**22,750**	**25,650**	**27,150**	**25,650**	**27,900**	**35,400**	**33,800**	**5.80 J**	20.0 U	**8.90 J**	4.00 U	300	HH	1,000	Eco
Lead	**0.0140 J**	0.0300 U	0.0200 U	**0.0130 J**	**0.0170 J**	0.00600 U	0.00600 U	0.00600 U	0.00900 U	0.00600 U	0.0200 U	0.0300 U	0.00900 U	0.0460 U	**0.227**	**0.0130 J**	2.50	Eco	2.50	Eco
Magnesium	**21,800**	-	-	-	**25,800**	-	-	-	**16,850**	-	-	-	**13,000**	-	-	-	82,000	Eco	82,000	Eco
Manganese	**2,200**	**2,360**	**2,760**	**3,790**	**3,200**	**3,015**	**3,115**	**5,545**	**1,455**	**1,650**	**1,940**	**3,410**	**238**	**151**	**172**	**266**	50.0	HH	120	Eco
Mercury	-	-	0.0500 U	-	-	-	0.0500 U	-	-	-	0.0500 U	-	0.0300 U	-	-	-	0.770	Eco	0.770	Eco
Potassium	**7,310**	-	-	-	**7,240**	-	-	-	**3,195**	-	-	-	**12,900**	-	-	-	53,000	Eco	53,000	Eco
Sodium	**15,400**	-	-	-	**41,300**	-	-	-	**7,340**	-	-	-	**740,000**	-	-	-	680,000	Eco	680,000	Eco
Total Petroleum Hydrocarbons (µg/L)																				
Diesel Range Organics	**490**	**980**	**730**	**970**	**360**	**465**	**395**	**515**	110 U	110 U	**97.0 J**	**77.0 J**	**15.0 J**	**110**	**440**	**53.0 J**	-	-	90.0	HH
Residual Range Organics	**180**	**370**	**260**	**330**	120 U	**230**	170 U	**140**	110 U	110 U	130 U	**80.0 J**	22.0 U	100 U	**150**	**52.0 J**	-	-	290	HH
Gasoline Range Organics	**120 J**	**110 J**	**32.0 J**	**90.0 J**	**30.0 J**	**35.5 J**	**30.0 J**	**29.5 J**	**13.0 J**	13.0 U	13.0 U	13.0 U	13.0 U	**14.0 J**	**13.0 J**	13.0 U	-	-	100	HH
Total Butyltins (µg/L)																				
Dibutyltin	0.00810 U	0.00730 U	0.00730 U	0.00730 U	0.00810 U	0.00730 U	0.00730 U	0.00730 U	0.00810 U	**0.130 J**	0.00730 U	0.00730 U	0.00810 U	0.00730 U	0.00730 U	**0.0130 J**	0.0630	Eco	0.0630	Eco
Monobutyltin	0.0110 U	0.0290 U	0.0290 U	0.0290 U	0.0110 U	0.0290 U	0.0290 U	0.0290 U	0.0110 U	0.0290 UJ	0.0290 U	0.0290 U	0.0290 U	0.0290 U	0.0290 U	0.0290 U	0.0630	Eco	0.0630	Eco
Total Volatile Organic Compounds (µg/L)																				
Chloroform	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	5.70	HH	0.190	HH
Tetrachloroethene (PCE)	0.0970 U	0.0970 U	0.0970 U	0.0970 U	0.0970 U	0.0970 U	0.0970 U	0.0970 U	0.0970 U	0.0970 U	0.0970 U	0.0970 U	0.0970 U	0.0970 U	0.0970 U	0.0970 U	0.690	HH	0.0930	HH
Vinyl Chloride	**0.180 J**	**0.310 J**	**0.390 J**	**0.250 J**	**0.160 J**	**0.170 J**	**0.160 J**	**0.205 J**	**0.955**	**0.880**	**0.340 J**	**0.680**	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0250	HH	0.0250	HH
Total Semivolatile Organic Compounds (µg/L)																				
1,4-Dichlorobenzene	0.0290 U	0.0290 U	0.0290 UJ	0.0290 U	0.0290 U	0.0290 U	0.0310 UJ	0.0300 U	0.0310 U	0.0290 U	0.0320 U	0.0310 U	0.0330 U	0.0290 U	0.0290 UJ	0.0290 U	15.0	Eco	0.420	HH
4-Nitrophenol	0.280 U	0.280 U	0.280 U	0.280 U	0.280 U	0.280 U	0.300 U	0.290 U	0.300 U	0.280 U	0.310 U	0.300 U	0.320 U	0.280 U	0.280 U	0.280 U	150	Eco	150	Eco
Phenanthrene	**0.210**	**0.300**	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0230 U	0.0230 U	0.0240 U	0.0220 U	0.0240 U	0.0240 U	0.0250 U	0.0220 U	**3.90**	0.0220 U	6.30	Eco	0.140	HH
Phenol	0.0630 U	0.0630 U	0.0630 U	0.0630 U	0.0630 U	0.0630 U	0.0660 U	0.0640 U	0.0670 U	0.0630 U	0.0690 U	0.0670 U	0.0710 U	0.0630 U	0.0630 U	0.0630 U	110	Eco	110	Eco
General Chemistry Parameters (mg/L)																				
Dissolved Bromide	**0.0200 J**	-	-	-	**0.0290 J**	-	-	-	0.0100 U	-	-	-	**0.0490 J**	-	-	-	-	-	-	-
Dissolved Chloride	**4.70**	-	-	-	**22.6**	-	-	-	**1.40**	-	-	-	**13.5**	-	-	-	230	Eco	230	Eco
Dissolved Fluoride	**0.120 J**	-	-	-	**0.200**	-	-	-	**0.300**	-	-	-	0.0120 U	-	-	-	-	-	1.50	HH
Dissolved Sulfate	**1.70**	-	-	-	**13.7**	-	-	-	**1.30**	-	-	-	**1,790**	-	-	-	-	-	-	-
Dissolved Ammonia	**1.51**	-	-	-	**1.16**	-	-	-	**0.690**	-	-	-	**0.300**	-	-	-	-	-	-	-
Dissolved Nitrate+Nitrite	0.00500 UJ	-	-	-	**0.150**	-	-	-	0.00500 U	-	-	-	0.00500 U	-	-	-	-	-	10.0	HH
Total Organic Carbon	**9.40**	-	-	-	**9.30**	-	-	-	**7.05**	-	-	-	**2.80**	-	-	-	-	-	-	-
Dissolved Organic Carbon	**8.70 J**	-	-	-	**9.30**	-	-	-	**7.55 J**	-	-	-	**2.90**	-	-	-	-	-	-	-
Dissolved Bicarbonate as CaCO3	**305**	-	-	-	**356**	-	-	-	**196**	-	-	-	**44.0**	-	-	-	-	-	-	-
Dissolved Carbonate as CaCO3	1.00 U	-	-	-	1.00 U	-	-	-	1.00 U	-	-	-	1.00 U	-	-	-	-	-	-	-

Notes:
µg/L = microgram per liter
mg/L = milligram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed

-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-2b
2008-2009 Landfill AOPC Quarterly Groundwater Analytical Results
Metals, Petroleum Hydrocarbons, Butyltins, Volatile Organic Compounds, Semivolatile Organic Compounds, and General Chemistry Parameters
(Page 3 of 3)

Site ID	MW-09	MW-09	S2	S2	S2	S2	S4	S4	S4	S4	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	080417MW9GW	090114MW9GW	08041852SP	08041852SW	090111S2SP	090111S2SW	08041754 SP	08041754 SW	090111S4SP	090111S4SW				
Sample Date	4/17/2008	1/14/2009	4/18/2008	4/18/2008	1/11/2009	1/11/2009	4/17/2008	4/17/2008	1/11/2009	1/11/2009				
Sample Depth (Feet btc)	15.5	15	0.0	1.0	0.0	0.5	0.0	1.0	0.0	0.5				
Sample Depth (Feet btc)	Groundwater	Groundwater	Seep Water	Surface Water	Seep Water	Surface Water	Seep Water	Surface Water	Seep Water	Surface Water				
Total Metals (µg/L)														
Arsenic	0.720 U	0.500 U	1.01 U	1.10 U	**0.500**	**0.900**	**12.8**	**1.17**	**1.10**	**0.800**	0.0180	HH	0.0380	HH
Iron	**2,550**	**532**	**5,300**	**251**	**433**	**167**	**121,000**	**446**	**271**	**188**	300	HH	26,000	HH
Lead	**0.718**	**0.871**	**2.23**	**0.243**	**0.342**	**0.105**	**25.7**	**0.407**	**0.113**	**0.289**	-	-	15.0	HH
Manganese	**103**	**10.4**	**75.0**	**11.1**	**15.5**	**6.37**	**3,240**	**13.6**	**8.90**	**5.90**	50.0	HH	880	HH
Mercury	**0.0300 J**	-	**0.0300 J**	0.0300 U	-	-	-	-	-	-	-	-	11.0	HH
Dissolved Metals (µg/L)														
Arsenic	**1.40**	0.500 U	0.520 U	**1.01**	**0.500**	**0.800**	**1.00**	**0.870**	**1.00**	**0.800**	0.0180	HH	0.0380	HH
Calcium	**11,600**	-	**22,600**	**20,500**	-	-	**76,400**	**19,900**	-	-	116,000	Eco	116,000	Eco
Iron	**176**	20.0 U	**14.9 J**	4.00 U	20.0 U	20.0 U	**9.70 J**	**9.20 J**	20.0 U	20.0 U	300	HH	1,000	Eco
Lead	**0.107**	**0.0440**	**0.0650**	**0.0160 J**	0.0300 U	**0.0100 J**	**0.0180 J**	0.00900 U	**0.00800 J**	**0.0100 J**	2.50	Eco	2.50	Eco
Magnesium	**2,560**	-	**5,070**	**6,330**	-	-	**16,600**	**6,190**	-	-	82,000	Eco	82,000	Eco
Manganese	**48.9**	**10.4**	**5.41**	**0.490**	0.160 U	**1.01**	**1.99**	**0.560**	0.140 U	**0.930**	50.0	HH	120	Eco
Mercury	0.0300 U	-	0.0300 U	0.0300 U	-	-	-	-	-	-	0.770	Eco	0.770	Eco
Potassium	**2,680**	-	**771 J**	**1,490 J**	-	-	**4,160**	**1,510 J**	-	-	53,000	Eco	53,000	Eco
Sodium	**11,800**	-	**19,700**	**7,900**	-	-	**6,680**	**7,630**	-	-	680,000	Eco	680,000	Eco
Total Petroleum Hydrocarbons (µg/L)														
Diesel Range Organics	**65.0 J**	**110 J**	13.0 U	12.0 U	**29.0 J**	**26.0 J**	120 U	120 U	**130**	**30.0 J**	-	-	90.0	HH
Residual Range Organics	**130**	**130**	23.0 U	20.0 U	110 U	100 U	120 U	120 U	**130**	100 U	-	-	290	HH
Gasoline Range Organics	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	-	-	100	HH
Total Butyltins (µg/L)														
Dibutyltin	0.00810 U	0.00730 U	0.00810 U	0.00810 U	0.00730 U	0.00730 U	0.00810 U	0.00810 U	0.00730 U	0.00730 U	0.0630	Eco	0.0630	Eco
Monobutyltin	0.0290 U	0.0290 U	0.0290 U	0.0290 U	0.0290 U	0.0290 U	0.0110 U	0.0110 U	0.0290 U	0.0290 U	0.0630	Eco	0.0630	Eco
Total Volatile Organic Compounds (µg/L)														
Chloroform	**0.220 J**	**0.450 J**	0.0820 U	0.0820 U	0.0820 U	0.0820 U	**0.740**	0.0820 U	**2.80**	0.0820 U	5.70	HH	0.190	HH
Tetrachloroethene (PCE)	**2.60**	**4.80**	**0.150 J**	0.0970 U	0.0970 U	0.0970 U	**1.70**	0.0970 U	**4.40**	0.0970 U	0.690	HH	0.0930	HH
Vinyl Chloride	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0250	HH	0.0250	HH
Total Semivolatile Organic Compounds (µg/L)														
1,4-Dichlorobenzene	0.0290 U	0.0310 U	0.0330 U	0.0290 U	0.0300 U	0.0290 U	0.0290 U	0.0310 U	0.0300 U	0.0290 U	15.0	Eco	0.420	HH
4-Nitrophenol	0.280 U	0.300 U	0.320 U	0.280 U	0.290 U	0.280 U	0.280 U	0.300 U	0.290 U	0.280 U	150	Eco	150	Eco
Phenanthrene	0.0220 U	0.0240 U	0.0250 U	0.0220 U	0.0230 U	0.0220 U	0.0220 U	0.0230 U	0.0230 U	0.0220 U	6.30	Eco	0.140	HH
Phenol	0.0630 U	0.0670 U	0.0710 U	0.0630 U	0.0650 U	0.0630 U	0.0630 U	0.0660 U	0.0640 U	0.0630 U	110	Eco	110	Eco
General Chemistry Parameters (mg/L)														
Dissolved Bromide	0.0100 U	-	0.0100 U	0.0100 U	-	-	0.0100 U	0.0100 U	-	-	-	-	-	-
Dissolved Chloride	**0.900**	-	**1.10**	**3.70**	-	-	**1.60**	**3.70**	-	-	230	Eco	230	Eco
Dissolved Fluoride	0.0120 U	-	**0.0310 J**	**0.147 J**	-	-	**0.0930 J**	**0.150 J**	-	-	-	-	1.50	HH
Dissolved Sulfate	**16.2**	-	**13.6**	**14.5**	-	-	**20.4**	**14.4**	-	-	-	-	-	-
Dissolved Ammonia	**0.0800**	-	0.0500 U	0.0500 U	-	-	0.0500 U	0.0500 U	-	-	-	-	-	-
Dissolved Nitrate+Nitrite	**0.00700 J**	-	**1.11**	**0.360**	-	-	**0.180**	**0.440**	-	-	-	-	10.0	HH
Total Organic Carbon	**4.50**	-	**2.50**	**2.10**	-	-	**3.40**	**2.00**	-	-	-	-	-	-
Dissolved Organic Carbon	**6.10 J**	-	**2.50**	**2.30 J**	-	-	**3.50 J**	**2.10 J**	-	-	-	-	-	-
Dissolved Bicarbonate as CaCO3	**46.0**	-	**102**	**76.0**	-	-	**256**	**76.0**	-	-	-	-	-	-
Dissolved Carbonate as CaCO3	1.00 U	-	1.00 U	1.00 U	-	-	1.00 U	1.00 U	-	-	-	-	-	-

Notes:

µg/L = microgram per liter
mg/L = milligram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed

-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-3a
2009 Sandblast Area AOPC - Laydown Area Soil Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, Butyltins, Pesticides, and General Chemistry Parameters
(Page 1 of 2)

Site ID	LD-01	LD-01	LD-02	LD-02	LD-03	LD-03	LD-04	LD-04	LD-05	LD-05	LD-06	LD-07	LD-08	LD-09	LD-10	LD-11*	Selected SLV	SLV Source
Sample ID	090320-LD-1So-0-1	090320-LD-1So-1-3	090320-LD-2So-0-1	090320-LD-2So-1-3	090320-LD-3So-0-1	090320-LD-3So-1-3	090320-LD-4So-0-1	090320-LD-4So-1-3	090320-LD-5So-0-1	090320-LD-5So-1-3	090319-LD-6-So	090319-LD-7-So	090319-LD-8-So	090319-LD-9-So	090319-LD-10-So	090319-LD-11-So		
Sample Date	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/19/2009	3/19/2009	3/19/2009	3/19/2009	3/19/2009	3/19/2009		
Sample Depth (Feet bgs)	0.0-1.0	1.0-3.0	0.0-1.0	1.0-3.0	0.0-1.0	1.0-3.0	0.0-1.0	1.0-3.0	0.0-1.0	1.0-3.0	0.0-0.17	0.0-0.17	0.0-0.17	0.0-0.17	0.0-0.17	0.0-0.17	(0-3 ft bgs)	(0-3 ft bgs)
PCB Aroclors (µg/kg dry)																		
Aroclor 1016	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	11.0 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	11.0 U	2.10 U	371	Eco
Aroclor 1221	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	11.0 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	11.0 U	2.10 U	371	Eco
Aroclor 1232	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	11.0 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	11.0 U	2.10 U	371	Eco
Aroclor 1242	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	11.0 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	11.0 U	2.10 U	371	Eco
Aroclor 1248	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	11.0 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	11.0 U	2.10 U	371	Eco
Aroclor 1254	**700**	**23.0**	**280**	**16.0**	**160**	**11.0**	2.10 U	2.10 U	**1,500**	**230**	2.10 U	2.10 U	2.10 U	2.10 U	**1,700**	**475**	371	Eco
Aroclor 1260	**690**	**22.0**	**130**	**18.0**	**160**	**11.0**	2.10 U	2.10 U	**480**	**130**	**50.0**	**660 J**	2.10 U	**7.50 J**	**440**	**215**	371	Eco
Aroclor 1262	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	11.0 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	11.0 U	2.10 U	371	Eco
Aroclor 1268	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	11.0 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	11.0 U	2.10 U	371	Eco
Total PCBs as Aroclors (NDs at MDL) [1]	**1390**	**45.0**	**410**	**34.0**	**320**	**22.0**	4.20 U	4.20 U	**1980**	**360**	**52.1 J**	**662 J**	4.20 U	**9.60 J**	**2140**	**690**	371	Eco
Metals (mg/kg dry)																		
Aluminum	**10,100**	**15,400**	**12,200**	**16,200**	**9,960**	**15,600**	**12,200**	**15,000**	**16,100**	**17,400**	**6,360**	**12,100**	**24,300**	**18,600**	**12,800**	**21,100**	31,400	UPL
Antimony	**1.72 J**	**0.140 J**	**1.07 J**	**0.0900 J**	**0.310 J**	**0.0800 J**	**0.130 J**	**0.0700 J**	**0.560 J**	**0.170 J**	0.360 U	**0.540 J**	0.160 U	0.170 U	**0.830 J**	**0.455 J**	0.270	Eco
Arsenic	**5.89**	**7.26**	**5.79**	**5.30**	**2.96**	**5.70**	**3.86**	**6.44**	**5.04**	**5.80**	**1.86**	**5.50**	**4.81**	**4.22**	**15.0**	**7.63**	5.40	UPL
Barium	**95.3**	**103**	**114**	**91.3**	**70.4**	**85.1**	**111**	**93.7**	**113**	**138**	**72.3**	**93.6**	**109**	**101**	**104**	**133**	330	Eco
Beryllium	**0.240 J**	**0.470 J**	**0.260 J**	**0.530 J**	**0.320 J**	**0.370 J**	**0.350 J**	**0.410 J**	**0.370 J**	**0.500 J**	**0.230 J**	**0.290 J**	**0.630 J**	**0.520 J**	**0.280 J**	**0.505 J**	21.0	Eco
Cadmium	**6.45**	**0.259**	**7.92**	**0.154**	**1.31**	**0.134**	**0.235**	**0.0770**	**17.3**	**0.383**	**0.379**	**4.88**	**0.146**	**0.276**	**3.98**	**7.73**	0.360	Eco
Calcium	**5,060 J**	**7,120 J**	**5,240 J**	**7,850 J**	**5,290 J**	**8,080 J**	**6,400 J**	**7,470 J**	**7,290 J**	**9,030 J**	**4,520 J**	**7,610 J**	**10,700 J**	**9,680 J**	**5,520 J**	**8,840 J**	10,400	UPL
Chromium	**94.9 J**	**19.5 J**	**49.5 J**	**17.3 J**	**33.3 J**	**15.4 J**	**12.0 J**	**16.8 J**	**35.7 J**	**29.3 J**	**169 J**	**33.1 J**	**18.6 J**	**22.5 J**	**129 J**	**80.7 J**	28.1	UPL
Cobalt	**12.8**	**16.1**	**13.4**	**15.6**	**10.0**	**15.9**	**10.6**	**14.4**	**13.3**	**18.4**	**10.6**	**12.5**	**15.7**	**16.2**	**12.7**	**18.6**	19.9	UPL
Copper	**189 J**	**60.6 J**	**195 J**	**60.5 J**	**103 J**	**55.4 J**	**32.6 J**	**51.7 J**	**165 J**	**64.8 J**	**30.8 J**	**73.7 J**	**71.4 J**	**57.2 J**	**298 J**	**158 J**	56.7	UPL
Iron	**44,800**	**29,000**	**42,400**	**29,900**	**26,700**	**28,000**	**28,000**	**27,200**	**40,400**	**32,500**	**28,400**	**33,100**	**33,000**	**30,800**	**39,300**	**41,400**	36,900	UPL
Lead	**765**	**26.5**	**963**	**11.6**	**233**	**18.7**	**279**	**13.4**	**311**	**34.9**	**591**	**988**	**15.4**	**80.1**	**408**	**95.8**	25.5	UPL
Magnesium	**6,250**	**8,060**	**5,590**	**8,920**	**5,020**	**9,490**	**6,020**	**8,140**	**7,470**	**10,700**	**8,260**	**6,070**	**13,700**	**10,300**	**7,100**	**10,600**	12,400	UPL
Manganese	**526**	**512**	**614**	**466**	**391**	**460**	**360**	**430**	**500**	**487**	**342**	**526**	**789**	**678**	**508**	**598**	885	UPL
Mercury	**0.497**	**0.0470**	**0.267**	**0.0330**	**0.0940**	**0.0400**	**0.0170 J**	**0.0570**	**0.723**	**0.106**	**0.0480**	**0.0370**	**0.0650**	**0.0490**	**0.358**	**0.124**	0.0660	UPL
Nickel	**57.7 J**	**20.4 J**	**41.5 J**	**20.8 J**	**26.3 J**	**25.2 J**	**16.7 J**	**19.4 J**	**42.2 J**	**35.3 J**	**61.8 J**	**26.3 J**	**24.4 J**	**24.3 J**	**71.9 J**	**57.0 J**	38.0	Eco
Potassium	**610**	**895**	**636**	**809**	**429**	**705**	**630**	**860**	**835**	**1,010**	**580**	**1,230**	**1,480**	**1,250**	**827**	**1,100**	2,050	UPL
Selenium	**0.800 J**	**0.700 J**	**0.900 J**	**0.800 J**	**0.500 J**	**0.600 J**	**0.800 J**	**0.600 J**	**0.600 J**	**0.700 J**	0.500 U	**0.600 J**	**0.600 J**	**0.700 J**	**0.800 J**	**0.750 J**	0.520	Eco
Silver	**0.376**	**0.0700 J**	**0.406**	**0.0550 J**	**0.135**	**0.0450 J**	**0.0660**	**0.0520 J**	**0.431**	**0.0650**	**0.107**	**0.148**	**0.0740**	**0.0880**	**0.270**	**0.128**	4.20	Eco
Sodium	**413**	**391**	**391**	**382**	**373**	**547**	**453**	**365**	**470**	**461**	**269**	**285**	**350**	**444**	**433**	**459**	341	UPL
Thallium	**0.0790**	**0.115**	**0.0940**	**0.0940**	**0.0580**	**0.104**	**0.0830**	**0.126**	**0.0920**	**0.108**	**0.0340**	**0.104**	**0.112**	**0.120**	**0.212**	**0.124**	1.00	Eco
Vanadium	**67.7**	**68.1**	**74.0**	**66.6**	**68.9**	**63.4**	**84.7**	**69.4**	**75.0**	**77.5**	**67.3**	**65.0**	**62.4**	**75.0**	**72.9**	**80.0**	104	UPL
Zinc	**377 J**	**61.6 J**	**456 J**	**59.4 J**	**164 J**	**58.8 J**	**56.6 J**	**50.0 J**	**210 J**	**75.2 J**	**132 J**	**548 J**	**65.5 J**	**70.2 J**	**412 J**	**219 J**	71.7	UPL
Petroleum Hydrocarbons (mg/kg dry)																		
Diesel Range Organics	**260**	**6.30 J**	**410**	**7.50 J**	**85.0**	**50.0**	**5.90 J**	**5.90 J**	**160**	**14.0 J**	**61.0**	**170**	**3.60 J**	**13.0 J**	**260**	**38.5**	23,000	HH
Residual Range Organics	**1,300**	**25.0 J**	**2,300**	**23.0 J**	**860**	**82.0 J**	**21.0 J**	**16.0 J**	**270**	**52.0 J**	**290**	**430**	**30.0 J**	**85.0 J**	**1,200**	**170**	40,000	HH
Gasoline Range Organics	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	**1.60 J**	**3.40 J**	1.50 U	1.50 U	**3.10 J**	1.50 U	13,000	HH
Butyltins (µg/kg dry)																		
Dibutyltin	**5.80**	0.290 U	**4.80**	0.280 U	**2.50**	0.290 U	0.270 U	0.270 U	**1.20 J**	0.300 U	**5.70**	**13.0**	0.310 U	**0.800 J**	**3.40**	0.290 U	28,000	Eco
Monobutyltin	**2.20**	0.250 U	**1.60**	0.250 U	**0.570 J**	0.250 U	0.240 U	0.240 U	**1.10 J**	0.260 U	**2.10**	**2.10**	0.270 U	**0.420 J**	**2.50**	**0.900 J**	28,000	Eco
Tributyltin	**3.00**	0.360 U	**1.80**	0.350 U	0.340 U	0.360 U	0.340 U	0.340 U	0.340 U	0.370 U	**36.0**	0.440 U	0.390 U	0.400 U	**3.10**	0.360 U	28,000	Eco

Table 6-3a
2009 Sandblast Area AOPC - Laydown Area Soil Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, Butyltins, Pesticides, and General Chemistry Parameters
(Page 2 of 2)

Site ID	LD-01	LD-01	LD-02	LD-02	LD-03	LD-03	LD-04	LD-04	LD-05	LD-05	LD-06	LD-07	LD-08	LD-09	LD-10	LD-11*	Selected SLV	SLV Source
Sample ID	090320-LD-1So-0-1	090320-LD-1So-1-3	090320-LD-2So-0-1	090320-LD-2So-1-3	090320-LD-3So-0-1	090320-LD-3So-1-3	090320-LD-4So-0-1	090320-LD-4So-1-3	090320-LD-5So-0-1	090320-LD-5So-1-3	090319-LD-6-So	090319-LD-7-So	090319-LD-8-So	090319-LD-9-So	090319-LD-10-So	090319-LD-11-So		
Sample Date	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/19/2009	3/19/2009	3/19/2009	3/19/2009	3/19/2009	3/19/2009		
Sample Depth (Feet bgs)	0.0-1.0	1.0-3.0	0.0-1.0	1.0-3.0	0.0-1.0	1.0-3.0	0.0-1.0	1.0-3.0	0.0-1.0	1.0-3.0	0.0-0.17	0.0-0.17	0.0-0.17	0.0-0.17	0.0-0.17	0.0-0.17	**(0-3 ft bgs)**	**(0-3 ft bgs)**
Pesticides (µg/kg dry)																		
4,4'-DDD	1.90 U	0.110 U	0.640 U	0.140 U	**0.690 J**	0.570 U	0.110 U	0.110 U	3.40 U	0.200 U	**0.990 J**	10.0 U	0.110 U	0.110 U	5.00 U	0.550 U	21.0	Eco
4,4'-DDE	5.00 U	0.190 U	7.80 U	0.640 U	4.40 U	1.00 U	0.110 U	0.110 U	5.10 U	0.970 U	0.610 U	5.00 U	0.110 U	**0.610 J**	0.550 U	1.70 U	21.0	Eco
4,4'-DDT	**130**	**3.00**	**28.0**	**2.80**	**24.0**	**2.40**	**0.840 J**	0.170 U	**140**	**27.0**	5.10 U	78.0 U	0.270 U	**1.80**	**140**	**53.0**	21.0	Eco
Aldrin	**4.40 J**	0.160 U	1.00 U	0.160 U	0.980 U	0.160 U	0.160 U	0.160 U	0.800 U	0.160 U	0.800 U	5.00 U	0.160 U	0.160 U	5.00 U	0.160 U	4.90	Eco
BHC (alpha)	0.550 U	0.110 U	1.00 U	0.110 U	0.110 U	0.110 U	0.110 U	0.110 U	0.550 U	0.110 U	0.550 U	0.550 U	0.110 U	0.110 U	0.550 U	0.110 U	340	HH
BHC (beta)	0.900 U	0.180 U	0.180 U	0.180 U	0.180 U	0.180 U	0.180 U	0.180 U	0.900 U	0.180 U	0.900 U	0.900 U	0.180 U	0.180 U	0.900 U	0.180 U	960	HH
BHC (delta)	0.380 U	0.0740 U	0.490 U	0.0740 U	0.200 U	0.0740 U	0.0740 U	0.0740 U	0.370 U	0.0740 U	0.370 U	0.370 U	0.0740 U	0.0740 U	5.00 U	0.0740 U	340	HH
BHC (gamma) Lindane	0.400 U	0.0800 U	1.00 U	0.0800 U	0.980 U	0.0800 U	0.0800 U	0.0800 U	0.400 U	**0.200 J**	0.400 U	5.00 U	0.0800 U	0.120 U	37.0 U	0.0800 U	2,000	HH
Chlordane (alpha)	**1.50 J**	0.100 U	0.470 U	0.100 U	**0.660 J**	0.100 U	0.100 U	0.100 U	0.810 U	0.100 U	**0.860 J**	0.800 U	0.100 U	0.100 U	5.00 U	0.100 U	7,200	HH
Chlordane (gamma)	**40.0**	**0.760 J**	**12.0**	**0.890 J**	**7.60**	**0.610 J**	0.0900 U	0.0900 U	**86.0**	**9.20**	5.00 U	9.90 U	0.0900 U	1.00 U	**97.0**	**19.5**	7,200	HH
Dieldrin	8.70 U	1.00 U	3.90 U	1.00 U	1.90 U	1.00 U	0.140 U	0.140 U	31.0 U	3.60 U	0.700 U	18.0 U	0.140 U	1.00 U	31.0 U	5.70 U	4.90	Eco
Endosulfan I	5.00 U	0.0630 U	1.00 U	**0.260 J**	**2.20**	**0.140 J**	0.0630 U	0.0630 U	9.50 U	**2.00**	0.740 U	5.00 U	0.0660 U	0.0630 U	8.30 U	**6.45**	20,000	Eco
Endosulfan II	5.60 U	0.140 U	8.40 U	0.140 U	0.980 U	0.290 U	0.140 U	0.140 U	4.90 U	0.970 U	0.700 U	5.00 U	0.140 U	0.140 U	5.00 U	1.00 U	20,000	Eco
Endosulfan Sulfate	2.50 U	0.110 U	**1.80**	0.110 U	0.980 U	0.110 U	0.110 U	0.110 U	**0.630 J**	0.110 U	**1.70 J**	5.00 U	0.110 U	0.110 U	**3.30 J**	0.110 U	20,000	Eco
Endrin	5.00 U	0.0940 U	1.10 U	1.00 U	0.980 U	0.0940 U	0.0940 U	0.0940 U	**17.0**	**2.10**	0.470 U	6.80 U	0.0940 U	0.0940 U	**15.0**	**3.00 J**	4.90	Eco
Endrin Aldehyde	9.60 U	0.220 U	2.80 U	0.160 U	1.10 U	0.170 U	0.120 U	0.120 U	**16.0**	**1.90**	0.600 U	5.00 U	0.120 U	0.120 U	**11.0**	**4.40**	4.90	Eco
Endrin Ketone	20.0 U	1.00 U	2.90 U	1.00 U	2.70 U	0.170 U	0.0930 U	0.0930 U	**13.0**	0.690 U	5.00 U	21.0 U	0.0930 U	0.190 U	8.50 U	1.10 U	4.90	Eco
Heptachlor	0.600 U	0.120 U	0.530 U	0.120 U	**0.180 J**	0.120 U	0.120 U	0.120 U	4.90 U	0.120 U	0.600 U	**2.90 J**	0.120 U	0.120 U	5.00 U	0.120 U	480	HH
Heptachlor Epoxide	5.00 U	0.0840 U	1.50 U	0.0970 U	0.980 U	0.130 U	0.0840 U	0.0840 U	0.870 U	0.350 U	0.420 U	0.420 U	0.0840 U	0.0840 U	0.420 U	1.00 U	240	HH
Methoxychlor	6.90 U	0.190 U	**1.20**	1.00 U	**1.00**	0.190 U	0.190 U	0.190 U	4.90 U	0.970 U	2.00 U	5.10 U	0.190 U	0.190 U	4.40 U	1.00 U	500,000	Eco
Toxaphene	2,200 U	50.0 U	230 U	44.0 U	180 U	31.0 U	4.80 U	4.80 U	2,900 U	330 U	110 U	980 U	19.0 U	17.0 U	1,700 U	440 U	2,000	HH
General Chemistry Parameters (mg/kg)																		
Carbon, Total Organic	**29,900**	**3,000**	**35,900**	**1,300**	**17,600**	**1,300**	**1,000**	**1,100**	**7,400**	**1,500**	**13,200**	**26,600**	**9,500**	**30,600**	**52,800**	**9,550**	-	-
Solids, Total	**836,000**	**831,000**	**824,000**	**850,000**	**867,000**	**838,000**	**901,000**	**878,000**	**860,000**	**789,000**	**859,000**	**694,000**	**768,000**	**737,000**	**871,000**	**854,000**	-	-

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit

[1] Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandlbast Area AOPC soil samples.
- = Not Analyzed
-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-3b
2009 Sandblast Area AOPC - Laydown Area Soil Analytical Results
Volatile Organic Compounds
(Page 1 of 2)

Site ID	LD-01	LD-01	LD-02	LD-02	LD-03	LD-03	LD-04	LD-04	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	090320-LD-1So-0-1	090320-LD-1So-1-3	090320-LD-2So-0-1	090320-LD-2So-1-3	090320-LD-3So-0-1	090320-LD-3So-1-3	090320-LD-4So-0-1	090320-LD-4So-1-3		
Sample Date	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009		
Sample Depth (Feet bgs)	0.0-1.0	1.0-3.0	0.0-1.0	1.0-3.0	0.0-1.0	1.0-3.0	0.0-1.0	1.0-3.0		
Volatile Organic Compounds (µg/kg dry)										
1,1,1,2-Tetrachloroethane	0.190 U	0.180 U	0.180 U	0.180 U	0.210 U	0.180 U	0.180 U	0.180 U	9,300	HH
1,1,1-Trichloroethane (TCA)	0.160 U	0.150 U	0.150 U	0.150 U	0.170 U	0.150 U	0.150 U	0.150 U	38,000,000	HH
1,1,2,2-Tetrachloroethane	0.0940 U	0.0890 U	0.0890 U	0.0890 U	0.110 U	0.0890 U	0.0890 U	0.0890 U	2,800	HH
1,1,2-Trichloroethane	0.0930 U	0.0880 U	0.0880 U	0.0880 U	0.100 U	0.0880 U	0.0880 U	0.0880 U	2,700	HH
1,1-Dichloroethane	0.0510 U	0.0480 U	0.0480 U	0.0480 U	0.0550 U	0.0480 U	0.0480 U	0.0480 U	5,900	HH
1,1-Dichloroethene	0.0740 U	0.0700 U	0.0700 U	0.0700 U	0.0800 U	0.0700 U	0.0700 U	0.0700 U	680,000	HH
1,1-Dichloropropene	0.160 U	0.150 U	0.150 U	0.150 U	0.170 U	0.150 U	0.150 U	0.150 U	8,100	HH
1,2,3-Trichlorobenzene	0.150 U	0.140 U	0.140 U	0.140 U	0.160 U	0.140 U	0.140 U	0.140 U	20,000	Eco
1,2,3-Trichloropropane	0.290 U	0.270 U	0.270 U	0.270 U	0.310 U	0.270 U	0.270 U	0.270 U	95.0	HH
1,2,4-Trichlorobenzene	0.240 U	0.220 U	0.220 U	0.220 U	0.250 U	0.220 U	0.220 U	0.220 U	20,000	Eco
1,2,4-Trimethylbenzene	**0.110 J**	0.0930 U	0.0930 U	**0.110 J**	0.110 U	**0.0980 J**	0.0930 U	0.0930 U	200,000	Eco
1,2-Dibromo-3-chloropropane	0.830 U	0.780 U	0.780 U	0.780 U	0.890 U	0.780 U	0.780 U	0.780 U	69.0	HH
1,2-Dibromoethane (EDB)	0.210 U	0.190 U	0.190 U	0.190 U	0.220 U	0.190 U	0.190 U	0.190 U	140	HH
1,2-Dichlorobenzene	0.0670 U	0.0630 U	0.0630 U	0.0630 U	0.0720 U	0.0630 U	0.0630 U	0.0630 U	2,260	Eco
1,2-Dichloroethane (EDC)	0.0570 U	0.0540 U	0.0540 U	0.0540 U	0.0620 U	0.0540 U	0.0540 U	0.0540 U	590	HH
1,2-Dichloropropane	0.0690 U	0.0650 U	0.0650 U	0.0650 U	0.0740 U	0.0650 U	0.0650 U	0.0650 U	4,500	HH
1,3,5-Trimethylbenzene	0.0430 U	0.0400 U	0.0400 U	0.0400 U	0.0460 U	0.0400 U	0.0400 U	0.0400 U	150,000	HH
1,3-Dichlorobenzene	0.0740 U	0.0700 U	0.0700 U	0.0700 U	0.0800 U	0.0700 U	0.0700 U	0.0700 U	2,260	Eco
1,3-Dichloropropane	0.0630 U	0.0590 U	0.0590 U	0.0590 U	0.0670 U	0.0590 U	0.0590 U	0.0590 U	20,000,000	HH
1,4-Dichlorobenzene	0.110 U	0.100 U	0.100 U	0.100 U	0.120 U	0.100 U	0.100 U	0.100 U	17,000	HH
2,2-Dichloropropane	0.110 U	0.100 U	0.100 U	0.100 U	0.120 U	0.100 U	0.100 U	0.100 U	4,500	HH
2-Butanone (MEK)	1.70 U	**4.30 J**	**12.0 J**	1.60 U	**4.90 J**	**2.40 J**	1.60 U	1.60 U	200,000,000	HH
2-Chlorotoluene	0.0540 U	0.0510 U	0.0510 U	0.0510 U	0.0580 U	0.0510 U	0.0510 U	0.0510 U	20,000,000	HH
2-Hexanone	0.830 U	0.780 U	0.780 U	0.780 U	0.890 U	0.780 U	0.780 U	0.780 U	1,250,000	Eco
4-Chlorotoluene	0.0980 U	0.0920 U	0.0920 U	0.0920 U	0.110 U	0.0920 U	0.0920 U	0.0920 U	72,000,000	HH
4-Isopropyltoluene	0.0880 U	0.0830 U	0.0830 U	0.0830 U	0.0940 U	0.0830 U	0.0830 U	0.0830 U	200,000	Eco
4-Methyl-2-pentanone (MIBK)	0.260 U	0.240 U	**0.330 J**	0.240 U	0.280 U	0.240 U	0.240 U	0.240 U	1,250,000	Eco
Acetone	**88.0**	**54.0**	**160**	**9.90 J**	**67.0**	**22.0**	**7.90 J**	**10.0 J**	1,250,000	Eco
Benzene	**0.490 J**	0.140 U	**0.340 J**	0.140 U	**0.180 J**	0.140 U	**0.210 J**	0.140 U	1,200	HH
Bromobenzene	0.0980 U	0.0920 U	0.0920 U	0.0920 U	0.110 U	0.0920 U	0.0920 U	0.0920 U	1,800,000	HH
Bromochloromethane	0.270 U	0.250 U	0.250 U	0.250 U	0.290 U	0.250 U	0.250 U	0.250 U	1,900	HH
Bromodichloromethane	0.0470 U	0.0440 U	0.0440 U	0.0440 U	0.0500 U	0.0440 U	0.0440 U	0.0440 U	1,900	HH
Bromoform	0.270 U	0.250 U	0.250 U	0.250 U	0.290 U	0.250 U	0.250 U	0.250 U	360,000	HH
Bromomethane	0.450 U	0.420 U	**0.480 J**	0.420 U	0.480 U	0.420 U	**4.40 J**	0.420 U	17,000	HH
Carbon Disulfide	**0.180 J**	**0.490 J**	**0.180 J**	**0.590 J**	**0.240 J**	**2.70 J**	**1.60 J**	**0.580 J**	1,000,000	Eco
Carbon Tetrachloride	0.0830 U	0.0780 U	0.0780 U	0.0780 U	0.0890 U	0.0780 U	0.0780 U	0.0780 U	630	HH
Chlorobenzene	0.0570 U	0.0540 U	0.0540 U	0.0540 U	0.0620 U	0.0540 U	0.0540 U	0.0540 U	40,000	Eco
Chloroethane	0.320 U	0.300 U	0.300 U	0.300 U	0.340 U	0.300 U	0.300 U	0.300 U	61,000,000	HH
Chloroform	0.0510 U	0.0480 U	0.0480 U	0.0480 U	0.0550 U	0.0480 U	0.0480 U	0.0480 U	410	HH
Chloromethane	0.0610 U	0.0570 U	0.0570 U	0.0570 U	0.0650 U	0.0570 U	0.0570 U	0.0570 U	300,000	HH
cis-1,2-Dichloroethene	0.0860 U	0.0810 U	0.0810 U	0.0810 U	0.0920 U	0.0810 U	0.0810 U	0.0810 U	2,500,000	Eco
cis-1,3-Dichloropropene	0.0330 U	0.0310 U	0.0310 U	0.0310 U	0.0360 U	0.0310 U	0.0310 U	0.0310 U	8,100	HH
Dibromochloromethane	0.170 U	0.160 U	0.160 U	0.160 U	0.190 U	0.160 U	0.160 U	0.160 U	34,000	HH
Dibromomethane	0.190 U	0.180 U	0.180 U	0.180 U	0.210 U	0.180 U	0.180 U	0.180 U	110,000	HH
Dichlorodifluoromethane	0.0760 U	0.0720 U	0.0720 U	0.0720 U	0.0820 U	0.0720 U	0.0720 U	0.0720 U	730,000	Eco
Dichloromethane (Methylene Chloride)	**0.280 J**	**0.280 J**	**0.370 J**	**0.300 J**	**0.460 J**	**0.630 J**	0.140 U	**0.310 J**	20,000	HH
Ethylbenzene	0.0440 U	0.0410 U	0.0410 U	0.0410 U	0.0470 U	0.0410 U	0.0410 U	0.0410 U	2,260	Eco
Hexachlorobutadiene	0.180 U	0.170 U	0.170 U	0.170 U	0.200 U	0.170 U	0.170 U	0.170 U	22,000	HH
Isopropylbenzene	0.0330 U	0.0310 U	0.0310 U	0.0310 U	0.0360 U	0.0310 U	0.0310 U	0.0310 U	2,260	Eco
m,p-Xylenes	0.0990 U	0.0930 U	0.0930 U	0.0930 U	0.110 U	0.0930 U	0.0930 U	0.0930 U	120,000	Eco
Naphthalene	0.340 U	0.320 U	0.320 U	0.320 U	0.370 U	0.320 U	**0.500 J**	0.320 U	23,000	HH
n-Butylbenzene	0.0930 U	0.0880 U	0.0880 U	0.0880 U	0.100 U	0.0880 U	0.0880 U	0.0880 U	-	-
n-Propylbenzene	0.0660 U	0.0620 U	0.0620 U	0.0620 U	0.0710 U	0.0620 U	0.0620 U	0.0620 U	2,260	Eco
o-Xylene	0.0630 U	0.0590 U	0.0590 U	0.0590 U	0.0670 U	0.0590 U	0.0590 U	0.0590 U	1,000	Eco
sec-Butylbenzene	0.0690 U	0.0650 U	0.0650 U	0.0650 U	0.0740 U	0.0650 U	0.0650 U	0.0650 U	2,260	Eco
Styrene	0.0810 U	0.0760 U	0.0760 U	0.0760 U	0.0860 U	0.0760 U	0.0760 U	0.0760 U	300,000	Eco
tert-Butylbenzene	0.0570 U	0.0540 U	0.0540 U	0.0540 U	0.0620 U	0.0540 U	0.0540 U	0.0540 U	2,260	Eco
Tetrachloroethene (PCE)	0.130 U	0.120 U	0.120 U	0.120 U	0.140 U	0.120 U	0.120 U	0.120 U	1,600	HH
Toluene	**0.460 J**	**0.110 J**	**0.340 J**	**0.120 J**	**0.240 J**	**0.150 J**	0.0440 U	**0.140 J**	200,000	Eco
trans-1,2-Dichloroethene	0.0510 U	0.0480 U	0.0480 U	0.0480 U	0.0550 U	0.0480 U	0.0480 U	0.0480 U	200,000	HH
trans-1,3-Dichloropropene	0.110 U	0.100 U	0.100 U	0.100 U	0.120 U	0.100 U	0.100 U	0.100 U	8,100	HH
Trichloroethene (TCE)	0.140 U	0.130 U	0.130 U	0.130 U	0.150 U	0.130 U	0.130 U	0.130 U	130	HH
Trichlorofluoromethane	0.0570 U	0.0540 U	0.0540 U	0.0540 U	0.0620 U	0.0540 U	0.0540 U	0.0540 U	730,000	Eco
Vinyl Acetate	0.640 U	0.600 U	0.600 U	0.600 U	0.680 U	0.600 U	0.600 U	0.600 U	4,100,000	HH
Vinyl Chloride	0.0610 U	0.0570 U	0.0570 U	0.0570 U	0.0650 U	0.0570 U	0.0570 U	0.0570 U	2,200	HH

Notes:

µg/kg = microgram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-3b
2009 Sandblast Area AOPC - Laydown Area Soil Analytical Results
Volatile Organic Compounds
(Page 2 of 2)

Site ID	LD-05	LD-05	LD-06	LD-07	LD-08	LD-09	LD-10	LD-11*	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	090320-LD-5So-0-1	090320-LD-5So-1-3	090319-LD-6-So	090319-LD-7-So	090319-LD-8-So	090319-LD-9-So	090319-LD-10-So	090319-LD-11-So		
Sample Date	3/20/2009	3/20/2009	3/19/2009	3/19/2009	3/19/2009	3/19/2009	3/19/2009	3/19/2009		
Sample Depth (Feet bgs)	0.0-1.0	1.0-3.0	0.0-0.17	0.0-0.17	0.0-0.17	0.0-0.17	0.0-0.17	0.0-0.17		
Volatile Organic Compounds (µg/kg dry)										
1,1,1,2-Tetrachloroethane	0.180 U	0.190 U	0.190 U	0.220 U	0.200 U	0.220 U	0.240 U	0.230 U	9,300	HH
1,1,1-Trichloroethane (TCA)	**0.580 J**	0.160 U	0.160 U	0.180 U	0.170 U	0.190 U	0.200 U	**0.490 J**	38,000,000	HH
1,1,2,2-Tetrachloroethane	0.0890 U	0.0920 U	0.0920 U	0.110 U	0.0990 U	0.110 U	0.120 U	0.120 U	2,800	HH
1,1,2-Trichloroethane	0.0880 U	0.0910 U	0.0910 U	0.110 U	0.0970 U	0.110 U	0.120 U	0.120 U	2,700	HH
1,1-Dichloroethane	**0.290 J**	0.0500 U	0.0500 U	0.0580 U	0.0530 U	0.0590 U	0.0620 U	0.0610 U	5,900	HH
1,1-Dichloroethene	0.0700 U	0.0730 U	0.0720 U	0.0840 U	0.0780 U	0.0860 U	0.0910 U	0.0880 U	680,000	HH
1,1-Dichloropropene	0.150 U	0.160 U	0.160 U	0.180 U	0.170 U	0.190 U	0.200 U	0.190 U	8,100	HH
1,2,3-Trichlorobenzene	0.140 U	0.150 U	0.150 U	0.170 U	0.160 U	0.180 U	0.190 U	0.180 U	20,000	Eco
1,2,3-Trichloropropane	0.270 U	0.280 U	0.280 U	0.330 U	0.300 U	0.330 U	0.350 U	0.340 U	95.0	HH
1,2,4-Trichlorobenzene	0.220 U	0.230 U	0.230 U	0.270 U	0.250 U	0.270 U	0.290 U	0.280 U	20,000	Eco
1,2,4-Trimethylbenzene	**0.260 J**	**0.160 J**	**0.380 J**	**0.190 J**	**0.240 J**	0.120 U	0.120 U	**0.205 J**	200,000	Eco
1,2-Dibromo-3-chloropropane	0.780 U	0.810 U	0.810 U	0.940 U	0.860 U	0.960 U	1.10 U	0.980 U	69.0	HH
1,2-Dibromoethane (EDB)	0.190 U	0.200 U	0.200 U	0.230 U	0.210 U	0.240 U	0.250 U	0.240 U	140	HH
1,2-Dichlorobenzene	0.0630 U	0.0650 U	0.0650 U	0.0760 U	0.0700 U	0.0770 U	0.0820 U	0.0790 U	2,260	Eco
1,2-Dichloroethane (EDC)	0.0540 U	0.0560 U	0.0560 U	0.0650 U	0.0600 U	0.0660 U	0.0700 U	0.0680 U	590	HH
1,2-Dichloropropane	0.0650 U	0.0670 U	0.0670 U	0.0780 U	0.0720 U	0.0800 U	0.0840 U	0.0820 U	4,500	HH
1,3,5-Trimethylbenzene	**0.0930 J**	0.0420 U	**0.100 J**	0.0480 U	0.0450 U	0.0490 U	0.0520 U	0.0510 U	150,000	HH
1,3-Dichlorobenzene	0.0700 U	0.0730 U	0.0720 U	0.0840 U	0.0780 U	0.0860 U	0.0910 U	0.0880 U	2,260	Eco
1,3-Dichloropropane	0.0590 U	0.0610 U	0.0610 U	0.0710 U	0.0650 U	0.0720 U	0.0760 U	0.0740 U	20,000,000	HH
1,4-Dichlorobenzene	**0.160 J**	**0.140 J**	0.110 U	0.120 U	0.120 U	0.130 U	0.130 U	0.130 U	17,000	HH
2,2-Dichloropropane	0.100 U	0.110 U	0.110 U	0.120 U	0.120 U	0.130 U	0.130 U	0.130 U	4,500	HH
2-Butanone (MEK)	**13.0 J**	**2.30 J**	**14.0 J**	**13.0 J**	**12.0 J**	**15.0 J**	**32.0**	**8.80 J**	200,000,000	HH
2-Chlorotoluene	0.0510 U	0.0530 U	0.0530 U	0.0620 U	0.0570 U	0.0630 U	0.0660 U	0.0640 U	20,000,000	HH
2-Hexanone	0.780 U	0.810 U	0.810 U	0.940 U	0.860 U	0.960 U	1.10 U	0.980 U	1,250,000	Eco
4-Chlorotoluene	0.0920 U	0.0950 U	0.0950 U	0.120 U	0.110 U	0.120 U	0.120 U	0.120 U	72,000,000	HH
4-Isopropyltoluene	**0.350 J**	0.0860 U	**1.60 J**	**0.340 J**	**0.290 J**	**12.0 J**	**0.900 J**	0.110 U	200,000	Eco
4-Methyl-2-pentanone (MIBK)	**0.550 J**	0.250 U	**0.690 J**	**0.500 J**	0.270 U	0.300 U	**0.670 J**	**0.510 J**	1,250,000	Eco
Acetone	**150**	**18.0 J**	**150**	**180**	**150**	**250**	**330**	**124**	1,250,000	Eco
Benzene	**0.450 J**	0.150 U	**1.20 J**	**0.540 J**	**0.310 J**	0.220 U	**0.700 J**	**0.390 J**	1,200	HH
Bromobenzene	0.0920 U	0.0950 U	0.0950 U	0.120 U	0.110 U	0.120 U	0.120 U	0.120 U	1,800,000	HH
Bromochloromethane	0.250 U	0.260 U	0.260 U	0.300 U	0.280 U	0.310 U	0.330 U	0.320 U	1,900	HH
Bromodichloromethane	0.0440 U	0.0460 U	0.0460 U	0.0530 U	0.0490 U	0.0540 U	0.0570 U	0.0560 U	1,900	HH
Bromoform	0.250 U	0.260 U	0.260 U	0.300 U	0.280 U	0.310 U	0.330 U	0.320 U	360,000	HH
Bromomethane	**0.500 J**	**0.840 J**	0.440 U	**0.530 J**	**0.570 J**	0.520 U	0.550 U	0.530 U	17,000	HH
Carbon Disulfide	**0.530 J**	**1.40 J**	**1.60 J**	**0.750 J**	**6.90**	**0.830 J**	**0.360 J**	**0.715 J**	1,000,000	Eco
Carbon Tetrachloride	0.0780 U	0.0810 U	0.0810 U	0.0940 U	0.0860 U	0.0960 U	0.110 U	0.0980 U	630	HH
Chlorobenzene	0.0540 U	0.0560 U	0.0560 U	0.0650 U	0.0600 U	0.0660 U	0.0700 U	0.0680 U	40,000	Eco
Chloroethane	0.300 U	0.310 U	0.310 U	0.360 U	0.340 U	0.370 U	0.390 U	0.380 U	61,000,000	HH
Chloroform	0.0480 U	0.0500 U	0.0500 U	0.0580 U	0.0530 U	0.0590 U	0.0620 U	0.0610 U	410	HH
Chloromethane	0.0570 U	0.0590 U	0.0590 U	0.0690 U	0.0630 U	0.0700 U	0.0740 U	0.0720 U	300,000	HH
cis-1,2-Dichloroethene	0.0810 U	0.0840 U	0.0840 U	0.0970 U	0.0900 U	0.0990 U	0.110 U	0.110 U	2,500,000	Eco
cis-1,3-Dichloropropene	0.0310 U	0.0320 U	0.0320 U	0.0380 U	0.0350 U	0.0380 U	0.0400 U	0.0390 U	8,100	HH
Dibromochloromethane	0.160 U	0.170 U	0.170 U	0.200 U	0.180 U	0.200 U	0.210 U	0.210 U	34,000	HH
Dibromomethane	0.180 U	0.190 U	0.190 U	0.220 U	0.200 U	0.220 U	0.240 U	0.230 U	110,000	HH
Dichlorodifluoromethane	**16.0**	0.0750 U	**0.260 J**	0.0870 U	0.0800 U	0.0880 U	0.0930 U	**0.695 J**	730,000	Eco
Dichloromethane (Methylene Chloride)	**0.770 J**	**0.480 J**	0.150 U	**0.390 J**	**0.500 J**	0.180 U	**0.240 J**	**0.430 J**	20,000	HH
Ethylbenzene	**0.180 J**	**0.0720 J**	**0.320 J**	**0.0720 J**	**0.0770 J**	0.0500 U	0.0530 U	**0.100 J**	2,260	Eco
Hexachlorobutadiene	0.170 U	0.180 U	0.180 U	0.210 U	0.190 U	0.210 U	0.220 U	0.220 U	22,000	HH
Isopropylbenzene	0.0310 U	0.0320 U	0.0320 U	0.0380 U	0.0350 U	0.0380 U	0.0400 U	0.0390 U	2,260	Eco
m,p-Xylenes	**0.410 J**	**0.150 J**	**0.440 J**	**0.140 J**	**0.140 J**	0.120 U	0.120 U	**0.250 J**	120,000	Eco
Naphthalene	**1.50 J**	**0.520 J**	**0.850 J**	**0.540 J**	**0.470 J**	0.390 U	0.420 U	**0.550 J**	23,000	HH
n-Butylbenzene	0.0880 U	0.0910 U	**0.0920 J**	0.110 U	0.0970 U	0.110 U	0.120 U	0.120 U	-	-
n-Propylbenzene	0.0620 U	0.0640 U	**0.150 J**	0.0750 U	0.0690 U	0.0760 U	0.0800 U	0.0780 U	2,260	Eco
o-Xylene	**0.180 J**	0.0610 U	**0.170 J**	0.0710 U	0.0650 U	0.0720 U	0.0760 U	0.0740 U	1,000	Eco
sec-Butylbenzene	0.0650 U	0.0670 U	0.0670 U	0.0780 U	0.0720 U	0.0800 U	0.0840 U	0.0820 U	2,260	Eco
Styrene	0.0760 U	0.0790 U	0.0790 U	0.0910 U	0.0840 U	0.0930 U	0.0980 U	0.0960 U	300,000	Eco
tert-Butylbenzene	0.0540 U	0.0560 U	0.0560 U	0.0650 U	0.0600 U	0.0660 U	0.0700 U	0.0680 U	2,260	Eco
Tetrachloroethene (PCE)	0.120 U	0.130 U	0.130 U	0.150 U	0.140 U	0.150 U	0.160 U	0.160 U	1,600	HH
Toluene	**0.630 J**	**0.360 J**	**1.50 J**	**0.800 J**	**0.630 J**	**5.80 J**	**0.990 J**	**0.415 J**	200,000	Eco
trans-1,2-Dichloroethene	0.0480 U	0.0500 U	0.0500 U	0.0580 U	0.0530 U	0.0590 U	0.0620 U	0.0610 U	200,000	HH
trans-1,3-Dichloropropene	0.100 U	0.110 U	0.110 U	0.120 U	0.120 U	0.130 U	0.130 U	0.130 U	8,100	HH
Trichloroethene (TCE)	0.130 U	0.140 U	0.140 U	0.160 U	0.150 U	0.160 U	0.170 U	0.170 U	130	HH
Trichlorofluoromethane	0.0540 U	0.0560 U	0.0560 U	0.0650 U	0.0600 U	0.0660 U	0.0700 U	0.0680 U	730,000	Eco
Vinyl Acetate	0.600 U	0.620 U	0.620 U	0.720 U	0.670 U	0.740 U	0.780 U	0.760 U	4,100,000	HH
Vinyl Chloride	0.0570 U	0.0590 U	0.0590 U	0.0690 U	0.0630 U	0.0700 U	0.0740 U	0.0720 U	2,200	HH

Notes:

µg/kg = microgram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-3c
2009 Sandblast Area AOPC - Laydown Area Soil Analytical Results
Semivolatile Organic Compounds
(Page 1 of 2)

Site ID	LD-01	LD-01	LD-02	LD-02	LD-03	LD-03	LD-04	LD-04	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	090320-LD-1So-0-1	090320-LD-1So-1-3	090320-LD-2So-0-1	090320-LD-2So-1-3	090320-LD-3So-0-1	090320-LD-3So-1-3	090320-LD-4So-0-1	090320-LD-4So-1-3		
Sample Date	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009	3/20/2009		
Sample Depth (Feet bgs)	0.0-1.0	1.0-3.0	0.0-1.0	1.0-3.0	0.0-1.0	1.0-3.0	0.0-1.0	1.0-3.0		
Semivolatile Organic Compounds (µg/kg dry)										
1,2,4-Trichlorobenzene	38.0 U	1.50 U	38.0 U	1.50 U	38.0 U	1.50 U	1.50 U	1.50 U	20,000	Eco
1,2-Dichlorobenzene	33.0 U	1.30 U	33.0 U	1.30 U	33.0 U	1.30 U	1.30 U	1.30 U	2,260	Eco
1,3-Dichlorobenzene	40.0 U	1.60 U	40.0 U	1.60 U	40.0 U	1.60 U	1.60 U	1.60 U	2,260	Eco
1,4-Dichlorobenzene	48.0 U	1.90 U	48.0 U	1.90 U	48.0 U	1.90 U	1.90 U	1.90 U	17,000	HH
2,4,5-Trichlorophenol	75.0 U	3.00 U	75.0 U	3.00 U	75.0 U	3.00 U	3.00 U	3.00 U	4,000	Eco
2,4,6-Trichlorophenol	45.0 U	1.80 U	45.0 U	1.80 U	45.0 U	1.80 U	1.80 U	1.80 U	10,000	Eco
2,4-Dichlorophenol	45.0 U	1.80 U	45.0 U	1.80 U	45.0 U	1.80 U	1.80 U	1.80 U	20,000	Eco
2,4-Dimethylphenol	140 U	5.50 U	140 U	5.50 U	140 U	5.50 U	5.50 U	5.50 U	20,000	Eco
2,4-Dinitrophenol	900 U	36.0 U	900 U	36.0 U	900 U	36.0 U	36.0 U	36.0 U	20,000	Eco
2,4-Dinitrotoluene	70.0 U	2.80 U	70.0 U	2.80 U	70.0 U	2.80 U	2.80 U	2.80 U	5,500	HH
2,6-Dinitrotoluene	70.0 U	2.80 U	70.0 U	2.80 U	70.0 U	2.80 U	2.80 U	2.80 U	240,000	HH
2-Chloronaphthalene	90.0 U	3.60 U	90.0 U	3.60 U	90.0 U	3.60 U	3.60 U	3.60 U	82,000,000	HH
2-Chlorophenol	43.0 U	1.70 U	43.0 U	1.70 U	43.0 U	1.70 U	1.70 U	1.70 U	60,000	Eco
2-Methylphenol	85.0 U	3.40 U	85.0 U	3.40 U	85.0 U	3.40 U	3.40 U	3.40 U	50,000	Eco
2-Nitroaniline	68.0 U	2.70 U	68.0 U	2.70 U	68.0 U	2.70 U	2.70 U	2.70 U	6,000,000	HH
2-Nitrophenol	65.0 U	2.60 U	65.0 U	2.60 U	65.0 U	2.60 U	2.60 U	2.60 U	180,000,000	HH
3,3'-Dichlorobenzidine	93.0 U	3.70 U	93.0 U	3.70 U	93.0 U	3.70 U	3.70 U	3.70 U	4,800	HH
3-Nitroaniline	65.0 U	2.60 U	65.0 U	2.60 U	65.0 U	2.60 U	2.60 U	2.60 U	70,000	Eco
4,6-Dinitro-2-methylphenol	43.0 U	1.70 U	43.0 U	1.70 U	43.0 U	1.70 U	1.70 U	1.70 U	49,000	HH
4-Bromophenyl Phenyl Ether	35.0 U	1.40 U	35.0 U	1.40 U	35.0 U	1.40 U	1.40 U	1.40 U	-	-
4-Chloro-3-methylphenol	53.0 U	2.10 U	53.0 U	2.10 U	53.0 U	2.10 U	2.10 U	2.10 U	62,000,000	HH
4-Chloroaniline	53.0 U	2.10 U	53.0 U	2.10 U	53.0 U	2.10 U	2.10 U	2.10 U	8,600	HH
4-Chlorophenyl Phenyl Ether	50.0 U	2.00 U	50.0 U	2.00 U	50.0 U	2.00 U	2.00 U	2.00 U	-	-
4-Nitroaniline	85.0 U	3.40 U	85.0 U	3.40 U	85.0 U	3.40 U	3.40 U	3.40 U	40,000	Eco
4-Nitrophenol	750 U	30.0 U	750 U	30.0 U	750 U	30.0 U	30.0 U	30.0 U	7,000	Eco
Aniline	38.0 U	1.50 U	38.0 U	1.50 U	38.0 U	1.50 U	1.50 U	1.50 U	200,000	Eco
Benzoic Acid	2,400 U	96.0 U	2,400 U	96.0 U	2,400 U	96.0 U	96.0 U	96.0 U	200,000	Eco
Benzyl Alcohol	93.0 U	3.70 U	93.0 U	3.70 U	93.0 U	3.70 U	3.70 U	3.70 U	2,260	Eco
Bis(2-chloroethoxy)methane	33.0 U	1.30 U	33.0 U	1.30 U	33.0 U	1.30 U	1.30 U	1.30 U	730,000	Eco
Bis(2-chloroethyl) Ether	60.0 U	2.40 U	60.0 U	2.40 U	60.0 U	2.40 U	2.40 U	2.40 U	1,000	HH
Bis(2-chloroisopropyl) Ether	30.0 U	1.20 U	30.0 U	1.20 U	30.0 U	1.20 U	1.20 U	1.20 U	1,000	HH
Bis(2-ethylhexyl) Phthalate	**7,600**	**360**	**9,200**	**39.0 J**	**3,500**	**170**	**170**	**15.0 J**	4,500	Eco
Butyl Benzyl Phthalate	38.0 U	1.50 U	38.0 U	1.50 U	38.0 U	1.50 U	1.50 U	1.50 U	450	Eco
Carbazole	**270**	**2.20 J**	**280**	**6.50 J**	**530**	**9.20**	**1.40 J**	1.30 U	2,260	Eco
Dibenzofuran	**69.0 J**	1.30 U	**45.0 J**	**3.30 J**	**220**	**1.90 J**	1.30 U	1.30 U	2.00	Eco
Diethyl Phthalate	88.0 U	3.50 U	88.0 U	3.50 U	88.0 U	3.50 U	3.50 U	3.50 U	100,000	Eco
Dimethyl Phthalate	45.0 U	1.80 U	45.0 U	1.80 U	45.0 U	1.80 U	1.80 U	1.80 U	150,000	HH
Di-n-butyl Phthalate	**180 J**	**28.0**	**130 J**	2.60 U	65.0 U	**3.70 J**	2.60 U	2.60 U	450	Eco
Di-n-octyl Phthalate	30.0 U	1.20 U	30.0 U	1.20 U	30.0 U	1.20 U	1.20 U	1.20 U	450	Eco
Hexachlorobenzene	53.0 U	2.10 U	53.0 U	2.10 U	53.0 U	2.10 U	2.10 U	2.10 U	1,800	HH
Hexachlorobutadiene	35.0 U	1.40 U	35.0 U	1.40 U	35.0 U	1.40 U	1.40 U	1.40 U	22,000	HH
Hexachlorocyclopentadiene	380 U	15.0 U	380 U	15.0 U	380 U	15.0 U	15.0 U	15.0 U	10,000	Eco
Hexachloroethane	55.0 U	2.20 U	55.0 U	2.20 U	55.0 U	2.20 U	2.20 U	2.20 U	150,000	HH
Isophorone	40.0 U	1.60 U	40.0 U	1.60 U	40.0 U	1.60 U	1.60 U	1.60 U	1,800,000	HH
Nitrobenzene	50.0 U	2.00 U	50.0 U	2.00 U	50.0 U	2.00 U	2.00 U	2.00 U	8,000	Eco
N-Nitrosodimethylamine	160 U	6.10 U	160 U	6.10 U	160 U	6.10 U	6.10 U	6.10 U	34.0	HH
N-Nitrosodi-n-propylamine	80.0 U	3.20 U	80.0 U	3.20 U	80.0 U	3.20 U	3.20 U	3.20 U	250	HH
N-Nitrosodiphenylamine	55.0 U	2.20 U	55.0 U	2.20 U	55.0 U	2.20 U	2.20 U	2.20 U	20,000	Eco
p-cresol (4-Methylphenol)	73.0 U	2.90 U	73.0 U	2.90 U	73.0 U	2.90 U	2.90 U	2.90 U	50,000	Eco
Pentachlorophenol	220 U	8.50 U	220 U	8.50 U	220 U	8.50 U	8.50 U	8.50 U	2,100	Eco
Phenol	48.0 U	**2.40 J**	48.0 U	**35.0**	48.0 U	1.90 U	**2.00 J**	**3.00 J**	30,000	Eco
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)										
2-Methylnaphthalene	**40.0 J**	1.20 U	**40.0 J**	**3.30 J**	**43.0 J**	1.20 U	1.20 U	1.20 U	4,100,000	HH
Acenaphthene	**160 J**	**1.10 J**	**140 J**	**9.00**	**430**	**4.10 J**	**1.50 J**	1.00 U	19,000,000	HH
Acenaphthylene	35.0 U	1.40 U	**37.0 J**	1.40 U	35.0 U	1.40 U	1.40 U	1.40 U	23,000	HH
Anthracene	**330**	**1.80 J**	**280**	**14.0**	**780**	**11.0**	**2.00 J**	1.40 U	93,000,000	HH
Fluorene	**130 J**	1.70 U	**120 J**	**9.70**	**380**	**3.80 J**	1.70 U	1.70 U	12,000,000	HH
Naphthalene	**66.0 J**	1.30 U	**69.0 J**	**6.30 J**	**62.0 J**	**2.20 J**	1.30 U	1.30 U	23,000	HH
Phenanthrene	**1,900**	**15.0**	**1,900**	**71.0**	**4,000**	**59.0**	**16.0**	1.30 U	93,000,000	HH
Total LPAHs (KM, capped; NDs at MDL)	**2,621 J**	**21.2 J**	**2,546 J**	**111 J**	**5,687 J**	**81.5 J**	**23.5 J**	8.10 U	29,000	Eco
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)										
Benzo(a)anthracene	**1,500**	**15.0**	**2,700**	**37.0**	**2,100**	**71.0**	**27.0**	1.40 U	2,700	HH
Benzo(a)pyrene	**1,400**	**19.0**	**2,800**	**35.0**	**1,900**	**72.0**	**38.0**	1.60 U	270	HH
Benzo(b)fluoranthene	**2,000**	**27.0**	**4,100**	**45.0**	**2,600**	**100**	**53.0**	2.50 U	2,700	HH
Benzo(g,h,i)perylene	**950**	**21.0**	**2,000**	**33.0**	**1,100**	**54.0**	**42.0**	2.30 U	27,000	HH
Benzo(k)fluoranthene	**770**	**10.0**	**1,400**	**16.0**	**880**	**36.0**	**19.0**	2.50 U	27,000	HH
Chrysene	**1,900**	**21.0**	**3,500**	**42.0**	**2,300**	**85.0**	**39.0**	**1.80 J**	270,000	HH
Dibenz(a,h)anthracene	**270**	**4.40 J**	**640**	**7.00**	**350**	**15.0**	**9.70**	2.20 U	270	HH
Fluoranthene	**3,100**	**29.0**	**4,700**	**71.0**	**5,000**	**130**	**36.0**	2.20 U	8,900,000	HH
Indeno(1,2,3-cd)pyrene	**1,100**	**16.0**	**2,200**	**25.0**	**1,300**	**55.0**	**35.0**	1.90 U	2,700	HH
Pyrene	**2,800**	**29.0**	**4,400**	**76.0**	**4,200**	**120**	**47.0**	**2.10 J**	6,700,000	HH
Total HPAHs (KM, capped; NDs at MDL)	**15,790**	**191 J**	**28,440**	**387**	**21,730**	**738**	**346**	**16.5 J**	1,100	Eco

Notes:

µg/kg = microgram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-3c
2009 Sandblast Area AOPC - Laydown Area Soil Analytical Results
Semivolatile Organic Compounds
(Page 2 of 2)

Site ID	LD-05	LD-05	LD-06	LD-07	LD-08	LD-09	LD-10	LD-11*	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	090320-LD-5So-0-1	090320-LD-5So-1-3	090319-LD-6-So	090319-LD-7-So	090319-LD-8-So	090319-LD-9-So	090319-LD-10-So	090319-LD-11-So		
Sample Date	3/20/2009	3/20/2009	3/19/2009	3/19/2009	3/19/2009	3/19/2009	3/19/2009	3/19/2009		
Sample Depth (Feet bgs)	0.0-1.0	1.0-3.0	0.0-0.17	0.0-0.17	0.0-0.17	0.0-0.17	0.0-0.17	0.0-0.17		
Semivolatile Organic Compounds (µg/kg dry)										
1,2,4-Trichlorobenzene	1.50 U	1.50 U	15.0 U	15.0 U	1.50 U	1.50 U	15.0 U	1.50 U	20,000	Eco
1,2-Dichlorobenzene	1.30 U	1.30 U	13.0 U	13.0 U	1.30 U	1.30 U	13.0 U	1.30 U	2,260	Eco
1,3-Dichlorobenzene	1.60 U	1.60 U	16.0 U	16.0 U	1.60 U	1.60 U	16.0 U	1.60 U	2,260	Eco
1,4-Dichlorobenzene	1.90 U	1.90 U	19.0 U	19.0 U	1.90 U	1.90 U	19.0 U	1.90 U	17,000	HH
2,4,5-Trichlorophenol	3.00 U	3.00 U	30.0 U	30.0 U	3.00 U	3.00 U	30.0 U	3.00 U	4,000	Eco
2,4,6-Trichlorophenol	1.80 U	1.80 U	18.0 U	18.0 U	1.80 U	1.80 U	18.0 U	1.80 U	10,000	Eco
2,4-Dichlorophenol	1.80 U	1.80 U	18.0 U	18.0 U	1.80 U	1.80 U	18.0 U	1.80 U	20,000	Eco
2,4-Dimethylphenol	5.50 U	5.50 U	55.0 U	55.0 U	5.50 U	5.50 U	55.0 U	5.50 U	20,000	Eco
2,4-Dinitrophenol	36.0 U	36.0 U	360 U	360 U	36.0 U	36.0 U	360 U	36.0 U	20,000	Eco
2,4-Dinitrotoluene	2.80 U	2.80 U	28.0 U	28.0 U	2.80 U	2.80 U	28.0 U	2.80 U	5,500	HH
2,6-Dinitrotoluene	2.80 U	2.80 U	28.0 U	28.0 U	2.80 U	2.80 U	28.0 U	2.80 U	240,000	HH
2-Chloronaphthalene	3.60 U	3.60 U	36.0 U	36.0 U	3.60 U	3.60 U	36.0 U	3.60 U	82,000,000	HH
2-Chlorophenol	1.70 U	1.70 U	17.0 U	17.0 U	1.70 U	1.70 U	17.0 U	1.70 U	60,000	Eco
2-Methylphenol	3.40 U	3.40 U	34.0 U	34.0 U	3.40 U	3.40 U	34.0 U	3.40 U	50,000	Eco
2-Nitroaniline	2.70 U	2.70 U	27.0 U	27.0 U	2.70 U	2.70 U	27.0 U	2.70 U	6,000,000	HH
2-Nitrophenol	2.60 U	2.60 U	26.0 U	26.0 U	2.60 U	2.60 U	26.0 U	2.60 U	180,000,000	HH
3,3'-Dichlorobenzidine	3.70 U	3.70 U	37.0 U	37.0 U	3.70 U	3.70 U	37.0 U	3.70 U	4,800	HH
3-Nitroaniline	2.60 U	2.60 U	26.0 U	26.0 U	2.60 U	2.60 U	26.0 U	2.60 U	70,000	Eco
4,6-Dinitro-2-methylphenol	1.70 U	1.70 U	17.0 U	17.0 U	1.70 U	1.70 U	17.0 U	1.70 U	49,000	HH
4-Bromophenyl Phenyl Ether	1.40 U	1.40 U	14.0 U	14.0 U	1.40 U	1.40 U	14.0 U	1.40 U	-	-
4-Chloro-3-methylphenol	2.10 U	2.10 U	21.0 U	21.0 U	2.10 U	2.10 U	21.0 U	2.10 U	62,000,000	HH
4-Chloroaniline	2.10 U	2.10 U	21.0 U	21.0 U	2.10 U	2.10 U	21.0 U	2.10 U	8,600	HH
4-Chlorophenyl Phenyl Ether	2.00 U	2.00 U	20.0 U	20.0 U	2.00 U	2.00 U	20.0 U	2.00 U	-	-
4-Nitroaniline	3.40 U	3.40 U	34.0 U	34.0 U	3.40 U	3.40 U	34.0 U	3.40 U	40,000	Eco
4-Nitrophenol	30.0 U	30.0 U	300 U	300 U	30.0 U	30.0 U	300 U	30.0 U	7,000	Eco
Aniline	1.50 U	1.50 U	15.0 U	15.0 U	1.50 U	1.50 U	15.0 U	1.50 U	200,000	Eco
Benzoic Acid	96.0 U	96.0 U	**980 J**	960 U	96.0 U	**100 J**	960 U	**120 J**	200,000	Eco
Benzyl Alcohol	3.70 U	3.70 U	37.0 U	37.0 U	3.70 U	3.70 U	37.0 U	3.70 U	2,260	Eco
Bis(2-chloroethoxy)methane	1.30 U	1.30 U	13.0 U	13.0 U	1.30 U	1.30 U	13.0 U	1.30 U	730,000	Eco
Bis(2-chloroethyl) Ether	2.40 U	2.40 U	24.0 U	24.0 U	2.40 U	2.40 U	24.0 U	2.40 U	1,000	HH
Bis(2-chloroisopropyl) Ether	1.20 U	1.20 U	12.0 U	12.0 U	1.20 U	1.20 U	12.0 U	1.20 U	1,000	HH
Bis(2-ethylhexyl) Phthalate	**980**	**320**	**9,900**	**13,000**	**260**	**630**	**13,000**	**895**	4,500	Eco
Butyl Benzyl Phthalate	1.50 U	1.50 U	15.0 U	15.0 U	1.50 U	1.50 U	15.0 U	1.50 U	450	Eco
Carbazole	**46.0**	**9.50**	**150**	**240**	**2.60 J**	**22.0**	**130**	**32.5**	2,260	Eco
Dibenzofuran	**10.0**	**1.80 J**	**59.0 J**	**58.0 J**	1.30 U	**4.50 J**	**38.0 J**	**7.80 J**	2.00	Eco
Diethyl Phthalate	3.50 U	3.50 U	35.0 U	35.0 U	3.50 U	3.50 U	35.0 U	**8.80 J**	100,000	Eco
Dimethyl Phthalate	1.80 U	1.80 U	**32.0 J**	**30.0 J**	1.80 U	1.80 U	**41.0 J**	1.80 U	150,000	HH
Di-n-butyl Phthalate	**46.0**	**22.0**	**130**	**52.0 J**	**7.60 J**	**6.10 J**	**280**	**165**	450	Eco
Di-n-octyl Phthalate	1.20 U	1.20 U	12.0 U	12.0 U	1.20 U	1.20 U	12.0 U	1.20 U	450	Eco
Hexachlorobenzene	2.10 U	2.10 U	21.0 U	21.0 U	2.10 U	2.10 U	21.0 U	2.10 U	1,800	HH
Hexachlorobutadiene	1.40 U	1.40 U	14.0 U	14.0 U	1.40 U	1.40 U	14.0 U	1.40 U	22,000	HH
Hexachlorocyclopentadiene	15.0 U	15.0 U	150 U	150 U	15.0 U	15.0 U	150 U	15.0 U	10,000	Eco
Hexachloroethane	2.20 U	2.20 U	22.0 U	22.0 U	2.20 U	2.20 U	22.0 U	2.20 U	150,000	HH
Isophorone	1.60 U	1.60 U	16.0 U	16.0 U	1.60 U	1.60 U	16.0 U	1.60 U	1,800,000	HH
Nitrobenzene	2.00 U	2.00 U	20.0 U	20.0 U	2.00 U	2.00 U	20.0 U	2.00 U	8,000	Eco
N-Nitrosodimethylamine	6.10 U	6.10 U	61.0 U	61.0 U	6.10 U	6.10 U	61.0 U	6.10 U	34.0	HH
N-Nitrosodi-n-propylamine	3.20 U	3.20 U	32.0 U	32.0 U	3.20 U	3.20 U	32.0 U	3.20 U	250	HH
N-Nitrosodiphenylamine	2.20 U	2.20 U	**27.0 J**	22.0 U	2.20 U	2.20 U	22.0 U	2.20 U	20,000	Eco
p-cresol (4-Methylphenol)	2.90 U	2.90 U	29.0 U	29.0 U	2.90 U	2.90 U	29.0 U	2.90 U	50,000	Eco
Pentachlorophenol	**11.0 J**	8.50 U	85.0 U	85.0 U	8.50 U	8.50 U	85.0 U	**32.0 J**	2,100	Eco
Phenol	**3.70 J**	1.90 U	19.0 U	19.0 U	1.90 U	1.90 U	19.0 U	1.90 U	30,000	Eco
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)										
2-Methylnaphthalene	**6.90**	1.20 U	**29.0 J**	**27.0 J**	1.20 U	**2.80 J**	**36.0 J**	**7.60 J**	4,100,000	HH
Acenaphthene	**30.0**	**4.70 J**	**210**	**110**	1.00 U	**14.0**	**99.0 J**	**20.0**	19,000,000	HH
Acenaphthylene	**4.60 J**	1.40 U	**15.0 J**	**31.0 J**	1.40 U	**2.60 J**	**25.0 J**	**3.15 J**	23,000	HH
Anthracene	**90.0**	**13.0**	**220**	**270**	**2.90 J**	**29.0**	**170**	**55.0**	93,000,000	HH
Fluorene	**29.0**	**5.20 J**	**130**	**130**	1.70 U	**13.0**	**75.0 J**	**17.5**	12,000,000	HH
Naphthalene	**8.90**	**4.00 J**	**78.0 J**	**41.0 J**	**3.90 J**	**6.70 J**	**45.0 J**	**8.75 J**	23,000	HH
Phenanthrene	**460**	**79.0**	**1,100**	**1,800**	**16.0**	**180**	**810**	**260**	93,000,000	HH
Total LPAHs (KM, capped; NDs at MDL)	**623 J**	**107 J**	**1,753 J**	**2,382 J**	**25.8 J**	**245 J**	**1,224 J**	**364 J**	29,000	Eco
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)										
Benzo(a)anthracene	**530**	**96.0**	**960**	**1,800**	**16.0**	**190**	**660**	**275**	2,700	HH
Benzo(a)pyrene	**450**	**86.0**	**1,100**	**1,600**	**17.0**	**200**	**670**	**265**	270	HH
Benzo(b)fluoranthene	**640**	**120**	**1,500**	**2,600**	**25.0**	**290**	**1,100**	**365**	2,700	HH
Benzo(g,h,i)perylene	**280**	**54.0**	**820**	**1,100**	**11.0**	**120**	**440**	**165**	27,000	HH
Benzo(k)fluoranthene	**220**	**45.0**	**560**	**860**	**8.30 J**	**89.0**	**360**	**125**	27,000	HH
Chrysene	**620**	**120**	**1,100**	**2,100**	**20.0**	**220**	**870**	**305**	270,000	HH
Dibenz(a,h)anthracene	**91.0**	**18.0**	**240**	**350**	2.20 U	**38.0**	**130**	**47.0**	270	HH
Fluoranthene	**1,100**	**170**	**1,700**	**3,300**	**31.0**	**350**	**1,300**	**555**	8,900,000	HH
Indeno(1,2,3-cd)pyrene	**320**	**60.0**	**880**	**1,200**	**12.0**	**130**	**450**	**180**	2,700	HH
Pyrene	**950**	**150**	**1,600**	**2,800**	**28.0**	**310**	**1,300**	**500**	6,700,000	HH
Total HPAHs (KM, capped; NDs at MDL)	**5,201**	**919**	**10,460**	**17,710**	**171 J**	**1,937**	**7,280**	**2,782**	1,100	Eco

Notes:

µg/kg = microgram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-3d
2009 Sandblast Area AOPC - Soil Analytical Results
Lead

Location	Sample ID	Sample Date	Sample Grain Size	Sample Interval (feet bgs)	Lead
Metals by EPA Method 6010B (mg/kg dry)					
SB-01	090127-SB-SB1-0-1So	1/27/2009	<250um	0.0-1.0	**398**
SB-01	090127-SB-SB1-0-1So	1/27/2009	<2mm	0.0-1.0	**258**
SB-01	090127-SB-SB1-1-3So	1/27/2009	<250um	1.0-3.0	**16.2**
SB-01	090127-SB-SB1-1-3So	1/27/2009	<2mm	1.0-3.0	**13.9**
SB-02	090127-SB-SB2-0-1So	1/27/2009	<250um	0.0-1.0	**220**
SB-02	090127-SB-SB2-0-1So	1/27/2009	<2mm	0.0-1.0	**176**
SB-02	090127-SB-SB2-1-3So	1/27/2009	<250um	1.0-3.0	**12.0**
SB-02	090127-SB-SB2-1-3So	1/27/2009	<2mm	1.0-3.0	**8.10 J**
SB-03	090127-SB-SB3-0-1So	1/27/2009	<250um	0.0-1.0	**921**
SB-03	090127-SB-SB3-0-1So	1/27/2009	<2mm	0.0-1.0	**768**
SB-03	090127-SB-SB3-1-3So	1/27/2009	<250um	1.0-3.0	**44.8**
SB-03	090127-SB-SB3-1-3So	1/27/2009	<2mm	1.0-3.0	**25.2**
SB-04	090127-SB-SB4-0-1So	1/27/2009	<250um	0.0-1.0	**90.8**
SB-04	090127-SB-SB4-0-1So	1/27/2009	<2mm	0.0-1.0	**52.7**
SB-04	090127-SB-SB4-1-3So	1/27/2009	<250um	1.0-3.0	**9.5 J**
SB-04	090127-SB-SB4-1-3So	1/27/2009	<2mm	1.0-3.0	**6.90 J**
SB-05	090127-SB-SB5-0-1So	1/27/2009	<250um	0.0-1.0	**525**
SB-05	090127-SB-SB5-0-1So	1/27/2009	<2mm	0.0-1.0	**451**
SB-05	090127-SB-SB5-1-3So	1/27/2009	<250um	1.0-3.0	**738**
SB-05	090127-SB-SB5-1-3So	1/27/2009	<2mm	1.0-3.0	**426**
SB-06*	090127-SB-SB6-0-1So	1/27/2009	<250um	0.0-1.0	**90.6**
SB-06*	090127-SB-SB6-0-1So	1/27/2009	<2mm	0.0-1.0	**42.4**
SB-06	090127-SB-SB6-1-3So	1/27/2009	<250um	1.0-3.0	**6.80 J**
SB-06	090127-SB-SB6-1-3So	1/27/2009	<2mm	1.0-3.0	**6.50 J**
SB-07	090127-SB-SB7-0-1So	1/27/2009	<250um	0.0-1.0	**99.4**
SB-07	090127-SB-SB7-0-1So	1/27/2009	<2mm	0.0-1.0	**90.0**
SB-07	090127-SB-SB7-1-3So	1/27/2009	<250um	1.0-3.0	**6.60 J**
SB-07	090127-SB-SB7-1-3So	1/27/2009	<2mm	1.0-3.0	**14.8**
SB-08	090127-SB-SB8-0-1So	1/27/2009	<250um	0.0-1.0	**53.9**
SB-08	090127-SB-SB8-0-1So	1/27/2009	<2mm	0.0-1.0	**27.5**
SB-08	090127-SB-SB8-1-3So	1/27/2009	<250um	1.0-3.0	**7.90 J**
SB-08	090127-SB-SB8-1-3So	1/27/2009	<2mm	1.0-3.0	**6.70 J**
Selected SLV (0-3 ft bgs)					**25.5**

Notes:
mg/kg = milligram per kilogram
bgs = below ground surface
MDL = Method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
The source for the selected lead SLV is the Reference area UPL.
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-3e
2009 Sandblast Area AOPC - Erodibility Study Surface Soil Grab Sample Analytical Results
Petroleum Hydrocarbons and Volatile Organic Compounds

Site ID	SB-EUA-02	SB-EUA-04	SB-EUA-06	SB-EUA-08	SB-EUB-02	SB-EUB-03	SB-EUB-12	SB-EUB-15	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	090318-SB-EUA-2So	090318-SB-EUA-4So	090318-SB-EUA-6So	090318-SB-EUA-8So	090318-SB-EUB-2So	090318-SB-EUB-3So	090318-SB-EUB-12So	090318-SB-EUB-15So		
Sample Date	3/18/2009	3/18/2009	3/18/2009	3/18/2009	3/18/2009	3/18/2009	3/18/2009	3/18/2009		
Sample Depth (Feet bgs)	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.17	0.0-0.17		
Petroleum Hydrocarbons (mg/kg dry)										
Gasoline Range Organics	1.50 U	**3.20 J**	**2.10 J**	**1.80 J**	1.50 U	1.50 U	1.50 U	**2.90 J**	13,000	HH
Volatile Organic Compounds (µg/kg dry)										
1,1,1,2-Tetrachloroethane	9.40 U	0.190 U	0.190 U	0.210 U	0.200 U	0.240 U	0.210 U	0.210 U	9,300	HH
1,1,1-Trichloroethane (TCA)	4.30 U	0.160 U	0.160 U	0.180 U	0.170 U	0.200 U	0.170 U	0.180 U	38,000,000	HH
1,1,2,2-Tetrachloroethane	7.40 U	0.0900 U	0.0930 U	0.110 U	0.0990 U	0.120 U	0.110 U	0.110 U	2,800	HH
1,1,2-Trichloroethane	7.90 U	0.0890 U	0.0920 U	0.110 U	0.0980 U	0.120 U	0.100 U	0.110 U	2,700	HH
1,1-Dichloroethane	9.30 U	0.0490 U	0.0510 U	0.0560 U	0.0540 U	0.0630 U	0.0550 U	0.0560 U	5,900	HH
1,1-Dichloroethene	7.30 U	0.0710 U	0.0740 U	0.0820 U	0.0780 U	0.0920 U	0.0800 U	0.0810 U	680,000	HH
1,1-Dichloropropene	9.40 U	0.160 U	0.160 U	0.180 U	0.170 U	0.200 U	0.170 U	0.180 U	8,100	HH
1,2,3-Trichlorobenzene	12.0 U	0.150 U	0.150 U	0.170 U	0.160 U	0.190 U	0.160 U	0.170 U	20,000	Eco
1,2,3-Trichloropropane	17.0 U	0.280 U	0.290 U	0.320 U	0.300 U	0.360 U	0.310 U	0.320 U	95.0	HH
1,2,4-Trichlorobenzene	6.50 U	0.230 U	0.230 U	0.260 U	0.250 U	0.290 U	0.250 U	0.260 U	20,000	Eco
1,2,4-Trimethylbenzene	3.70 U	**0.280 J**	**0.180 J**	**0.230 J**	**0.160 J**	**0.220 J**	**0.240 J**	0.110 U	200,000	Eco
1,2-Dibromo-3-chloropropane	140 U	0.790 U	0.820 U	0.910 U	0.870 U	1.10 U	0.890 U	0.900 U	69.0	HH
1,2-Dibromoethane (EDB)	6.90 U	0.200 U	0.200 U	0.230 U	0.220 U	0.250 U	0.220 U	0.220 U	140	HH
1,2-Dichlorobenzene	6.60 U	0.0640 U	0.0660 U	0.0740 U	0.0700 U	0.0830 U	0.0720 U	0.0730 U	2,260	Eco
1,2-Dichloroethane (EDC)	9.70 U	0.0550 U	0.0570 U	0.0630 U	0.0600 U	0.0710 U	0.0620 U	0.0630 U	590	HH
1,2-Dichloropropane	11.0 U	0.0660 U	0.0680 U	0.0760 U	0.0720 U	0.0850 U	0.0740 U	0.0750 U	4,500	HH
1,3,5-Trimethylbenzene	6.50 U	0.0410 U	0.0420 U	0.0470 U	0.0450 U	0.0530 U	0.0460 U	0.0460 U	150,000	HH
1,3-Dichlorobenzene	6.10 U	0.0710 U	0.0740 U	0.0820 U	0.0780 U	0.0920 U	0.0800 U	0.0810 U	2,260	Eco
1,3-Dichloropropane	5.30 U	0.0600 U	0.0620 U	0.0690 U	0.0660 U	0.0770 U	0.0670 U	0.0680 U	20,000,000	HH
1,4-Dichlorobenzene	5.70 U	0.110 U	0.110 U	0.120 U	0.120 U	0.140 U	0.120 U	0.120 U	17,000	HH
2,2-Dichloropropane	9.50 U	0.110 U	0.110 U	0.120 U	0.120 U	0.140 U	0.120 U	0.120 U	4,500	HH
2-Butanone (MEK)	290 U	**21.0 J**	**5.00 J**	**32.0**	**9.90 J**	**39.0**	**50.0**	**32.0**	200,000,000	HH
2-Chlorotoluene	4.90 U	0.0520 U	0.0540 U	0.0600 U	0.0570 U	0.0670 U	0.0580 U	0.0590 U	20,000,000	HH
2-Hexanone	170 U	**5.50 J**	0.820 U	**4.70 J**	0.870 U	1.10 U	**8.80 J**	0.900 U	1,250,000	Eco
4-Chlorotoluene	5.50 U	0.0930 U	0.0960 U	0.110 U	0.110 U	0.120 U	0.110 U	0.110 U	72,000,000	HH
4-Isopropyltoluene	6.10 U	0.0840 U	0.0870 U	0.0970 U	**2.50 J**	**0.480 J**	0.0940 U	**0.990 J**	200,000	Eco
4-Methyl-2-pentanone (MIBK)	460 U	**0.770 J**	0.260 U	**0.790 J**	0.270 U	0.320 U	**1.20 J**	0.280 U	1,250,000	Eco
Acetone	230 U	**170**	**47.0**	**290**	**98.0**	**350**	**540**	**270**	1,250,000	Eco
Benzene	5.70 U	0.300 U	**0.160 J**	**0.470 J**	**0.200 J**	0.380 U	**1.00 J**	0.230 U	1,200	HH
Bromobenzene	8.20 U	0.0930 U	0.0960 U	0.110 U	0.110 U	0.120 U	0.110 U	0.110 U	1,800,000	HH
Bromochloromethane	9.40 U	0.260 U	0.270 U	0.300 U	0.280 U	0.330 U	0.290 U	0.290 U	1,900	HH
Bromodichloromethane	6.20 U	0.0450 U	0.0460 U	0.0520 U	0.0490 U	0.0580 U	0.0500 U	0.0510 U	1,900	HH
Bromoform	13.0 U	0.260 U	0.270 U	0.300 U	0.280 U	0.330 U	0.290 U	0.290 U	360,000	HH
Bromomethane	29.0 U	0.430 U	**5.00 J**	0.490 U	**1.20 J**	0.550 U	0.480 U	0.490 U	17,000	HH
Carbon Disulfide	7.40 U	**0.680 J**	**0.670 J**	**1.00 J**	**0.620 J**	**0.940 J**	**0.960 J**	**0.700 J**	1,000,000	Eco
Carbon Tetrachloride	11.0 U	0.0790 U	0.0820 U	0.0910 U	0.0870 U	0.110 U	0.0890 U	0.0900 U	630	HH
Chlorobenzene	6.60 U	0.0550 U	0.0570 U	0.0630 U	0.0600 U	0.0710 U	0.0620 U	0.0630 U	40,000	Eco
Chloroethane	24.0 U	0.310 U	0.320 U	0.350 U	0.340 U	0.400 U	0.340 U	0.350 U	61,000,000	HH
Chloroform	**19.0 J**	0.0490 U	0.0510 U	**0.260 J**	0.0540 U	0.0630 U	**0.290 J**	0.0560 U	410	HH
Chloromethane	8.70 U	0.0580 U	**0.250 J**	0.0670 U	**0.230 J**	0.0750 U	0.0650 U	0.0660 U	300,000	HH
cis-1,2-Dichloroethene	**12.0 J**	0.0820 U	0.0850 U	0.0950 U	0.0900 U	0.110 U	0.0920 U	0.0940 U	2,500,000	Eco
cis-1,3-Dichloropropene	8.30 U	0.0320 U	0.0330 U	0.0370 U	0.0350 U	0.0410 U	0.0360 U	0.0360 U	8,100	HH
Dibromochloromethane	9.10 U	0.170 U	0.170 U	0.190 U	0.180 U	0.210 U	0.190 U	0.190 U	34,000	HH
Dibromomethane	18.0 U	0.190 U	0.190 U	0.210 U	0.200 U	0.240 U	0.210 U	0.210 U	110,000	HH
Dichlorodifluoromethane	**94.0**	0.0730 U	0.0760 U	0.0840 U	0.0800 U	0.0940 U	0.0820 U	0.0830 U	730,000	Eco
Dichloromethane (Methylene Chloride)	**460**	**0.390 J**	**0.330 J**	**0.550 J**	0.160 U	0.190 U	0.160 U	0.170 U	20,000	HH
Ethylbenzene	6.10 U	**0.110 J**	0.0430 U	**0.100 J**	0.0460 U	0.0540 U	**0.200 J**	0.0480 U	2,260	Eco
Hexachlorobutadiene	15.0 U	0.180 U	0.180 U	0.200 U	0.190 U	0.230 U	0.200 U	0.200 U	22,000	HH
Isopropylbenzene	6.10 U	0.0320 U	0.0330 U	0.0370 U	0.0350 U	0.0410 U	0.0360 U	0.0360 U	2,260	Eco
m,p-Xylenes	13.0 U	**0.190 J**	0.0980 U	**0.240 J**	0.110 U	0.130 U	**0.360 J**	0.110 U	120,000	Eco
Naphthalene	7.90 U	**0.540 J**	0.340 U	0.380 U	0.360 U	0.420 U	**0.450 J**	0.370 U	23,000	HH
n-Butylbenzene	6.50 U	0.0890 U	0.0920 U	0.110 U	0.0980 U	0.120 U	0.100 U	0.110 U	-	-
n-Propylbenzene	5.70 U	0.0630 U	0.0650 U	0.0730 U	0.0690 U	0.0810 U	0.0710 U	0.0720 U	2,260	Eco
o-Xylene	6.90 U	0.0600 U	0.0620 U	0.0690 U	0.0660 U	0.0770 U	0.0670 U	0.0680 U	1,000	Eco
sec-Butylbenzene	6.50 U	0.0660 U	0.0680 U	0.0760 U	0.0720 U	0.0850 U	0.0740 U	0.0750 U	2,260	Eco
Styrene	6.10 U	0.0770 U	0.0800 U	0.0890 U	0.0850 U	0.100 U	0.0860 U	0.0880 U	300,000	Eco
tert-Butylbenzene	4.30 U	0.0550 U	0.0570 U	0.0630 U	0.0600 U	0.0710 U	0.0620 U	0.0630 U	2,260	Eco
Tetrachloroethene (PCE)	8.30 U	0.130 U	0.130 U	0.140 U	0.140 U	0.160 U	0.140 U	0.140 U	1,600	HH
Toluene	6.10 U	**0.770 J**	**0.240 J**	**1.30 J**	**0.550 J**	**0.860 J**	**1.20 J**	**0.760 J**	200,000	Eco
trans-1,2-Dichloroethene	9.90 U	0.0490 U	0.0510 U	0.0560 U	0.0540 U	0.0630 U	0.0550 U	0.0560 U	200,000	HH
trans-1,3-Dichloropropene	12.0 U	0.110 U	0.110 U	0.120 U	0.120 U	0.140 U	0.120 U	0.120 U	8,100	HH
Trichloroethene (TCE)	13.0 U	0.140 U	0.140 U	0.160 U	0.150 U	0.170 U	0.150 U	0.150 U	130	HH
Trichlorofluoromethane	11.0 U	0.0550 U	0.0570 U	0.0630 U	0.0600 U	0.0710 U	0.0620 U	0.0630 U	730,000	Eco
Vinyl Acetate	52.0 U	0.610 U	0.630 U	0.700 U	0.670 U	0.790 U	0.680 U	0.690 U	4,100,000	HH
Vinyl Chloride	13.0 U	0.0580 U	0.0600 U	0.0670 U	0.0640 U	0.0750 U	0.0650 U	0.0660 U	2,200	HH

Notes:
µg/kg = microgram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed

-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV

Table 6-3f
2009 Sandblast Area AOPC - Erodibility Study Surface Soil Composite Sample Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, Butyltins, Pesticides, General Chemistry Parameters, and Grain Size

Site ID	SB-EUA*	SB-EUB	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	090318-SB-EUA-So	090318-SB-EUB-So		
Sample Date	3/18/2009	3/18/2009		
Sample Depth (Feet bgs)	0.0-0.17	0.0-0.17		
PCB Aroclors (µg/kg dry)				
Aroclor 1016	2.10 U	2.10 U	371	Eco
Aroclor 1221	2.10 U	2.10 U	371	Eco
Aroclor 1232	2.10 U	2.10 U	371	Eco
Aroclor 1242	2.10 U	2.10 U	371	Eco
Aroclor 1248	2.10 U	2.10 U	371	Eco
Aroclor 1254	2.10 U	2.10 U	371	Eco
Aroclor 1260	**27.0**	**67.0**	371	Eco
Aroclor 1262	2.10 U	2.10 U	371	Eco
Aroclor 1268	2.10 U	2.10 U	371	Eco
Total PCBs as Aroclors (NDs at MDL) [1]	**29.1 J**	**69.1 J**	371	Eco
Metals (mg/kg dry)				
Aluminum	**13,000**	**8,050**	31,400	UPL
Antimony	**0.220 J**	**0.340 J**	0.270	Eco
Arsenic	**5.91**	**5.94**	5.40	UPL
Barium	**108**	**75.8**	330	Eco
Beryllium	**0.350 J**	**0.240 J**	21.0	Eco
Cadmium	**0.458**	**1.06**	0.360	Eco
Calcium	**5,920 J**	**4,400 J**	10,400	UPL
Chromium	**108 J**	**162 J**	28.1	UPL
Cobalt	**13.4**	**10.9**	19.9	UPL
Copper	**46.4 J**	**71.6 J**	56.7	UPL
Iron	**30,800**	**27,700**	36,900	UPL
Lead	**302**	**319**	25.5	UPL
Magnesium	**8,140**	**7,350**	12,400	UPL
Manganese	**479**	**369**	885	UPL
Mercury	**0.0390**	**0.0330**	0.0660	UPL
Nickel	**57.5 J**	**74.9 J**	38.0	Eco
Potassium	**1,110**	**643**	2,050	UPL
Selenium	**0.650 J**	**0.500 J**	0.520	Eco
Silver	**0.127**	**0.175**	4.20	Eco
Sodium	**310**	**264**	341	UPL
Thallium	**0.117**	**0.0670**	1.00	Eco
Vanadium	**69.8**	**59.3**	104	UPL
Zinc	**123 J**	**203 J**	71.7	UPL
Petroleum Hydrocarbons (mg/kg dry)				
Diesel Range Organics	**33.0 J**	**69.0**	23,000	HH
Residual Range Organics	**400**	**1,000**	40,000	HH
Gasoline Range Organics	-	-	13,000	HH
Butyltins (µg/kg dry)				
Dibutyltin	**6.70**	**9.10**	28,000	Eco
Monobutyltin	**8.25**	**3.20**	28,000	Eco
Tributyltin	**12.8**	**3.20**	28,000	Eco
Pesticides (µg/kg dry)				
4,4'-DDD	0.110 U	0.300 U	21.0	Eco
4,4'-DDE	**0.440 J**	**0.250 J**	21.0	Eco
4,4'-DDT	**4.40**	**10.0**	21.0	Eco
Aldrin	0.160 U	0.160 U	4.90	Eco
BHC (alpha)	0.110 U	0.110 U	340	HH
BHC (beta)	0.180 U	0.660 U	960	HH
BHC (delta)	0.140 U	**0.0780 J**	340	HH
BHC (gamma) Lindane	0.0800 U	1.30 U	2,000	HH
Chlordane (alpha)	0.100 U	0.100 U	7,200	HH
Chlordane (gamma)	0.630 U	0.660 U	7,200	HH
Dieldrin	0.140 U	0.810 U	4.90	Eco
Endosulfan I	0.110 U	0.660 U	20,000	Eco
Endosulfan II	0.140 U	**0.240 J**	20,000	Eco
Endosulfan Sulfate	0.110 U	**0.770**	20,000	Eco
Endrin	0.0940 U	0.660 U	4.90	Eco
Endrin Aldehyde	0.630 U	0.700 U	4.90	Eco
Endrin Ketone	0.630 U	2.90 U	4.90	Eco
Heptachlor	**0.185 J**	**0.380 J**	480	HH
Heptachlor Epoxide	0.0840 U	0.180 U	240	HH
Methoxychlor	0.630 U	1.50 U	500,000	Eco
Toxaphene	43.0 U	190 U	2,000	HH
General Chemistry Parameters (mg/kg) and Grain Size (%)				
Carbon, Total Organic	**25,400**	**36,200**	-	-
Solids, Total	**752,000**	**755,000**	-	-
Gravel (>2.00 mm)	**27.8**	**34.2**	-	-
Sand, Very Coarse (1.00 - 2.00 mm)	**6.48**	**5.89**	-	-
Sand, Coarse (0.50 - 1.00 mm)	**4.98**	**5.83**	-	-
Sand, Medium (0.25 - 0.50 mm)	**7.38**	**7.18**	-	-
Sand, Fine (0.125 - 0.25 mm)	**10.7**	**10.3**	-	-
Sand, Very Fine (0.0625 - 0.125 mm)	**7.53**	**7.71**	-	-
Silt (0.039 - 0.0625 mm)	**31.2**	**25.1**	-	-
Clay (<0.039 mm)	**6.62**	**5.16**	-	-

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit
- = Not Analyzed
-- = SLV for analyte not available

[1] Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandlbast Area AOPC soil samples.
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-3g
2009 Sandblast Area AOPC - Erodibility Study Surface Soil Composite Sample Analytical Results
Semivolatile Organic Compounds

Site ID	SB-EUA*	SB-EUB	Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Sample ID	090318-SB-EUA-So	090318-SB-EUB-So		
Sample Date	3/18/2009	3/18/2009		
Sample Depth (Feet bgs)	0.0-0.17	0.0-0.17		
Semivolatile Organic Compounds (µg/kg dry)				
1,2,4-Trichlorobenzene	38.0 U	75.0 U	20,000	Eco
1,2-Dichlorobenzene	33.0 U	65.0 U	2,260	Eco
1,3-Dichlorobenzene	40.0 U	80.0 U	2,260	Eco
1,4-Dichlorobenzene	48.0 U	95.0 U	17,000	HH
2,4,5-Trichlorophenol	75.0 U	150 U	4,000	Eco
2,4,6-Trichlorophenol	45.0 U	90.0 U	10,000	Eco
2,4-Dichlorophenol	45.0 U	90.0 U	20,000	Eco
2,4-Dimethylphenol	140 U	280 U	20,000	Eco
2,4-Dinitrophenol	900 U	1,800 U	20,000	Eco
2,4-Dinitrotoluene	70.0 U	140 U	5,500	HH
2,6-Dinitrotoluene	70.0 U	140 U	240,000	HH
2-Chloronaphthalene	90.0 U	180 U	82,000,000	HH
2-Chlorophenol	43.0 U	85.0 U	60,000	Eco
2-Methylphenol	85.0 U	170 U	50,000	Eco
2-Nitroaniline	68.0 U	140 U	6,000,000	HH
2-Nitrophenol	65.0 U	130 U	180,000,000	HH
3,3'-Dichlorobenzidine	93.0 U	190 U	4,800	HH
3-Nitroaniline	65.0 U	130 U	70,000	Eco
4,6-Dinitro-2-methylphenol	43.0 U	85.0 U	49,000	HH
4-Bromophenyl Phenyl Ether	35.0 U	70.0 U	-	-
4-Chloro-3-methylphenol	53.0 U	110 U	62,000,000	HH
4-Chloroaniline	53.0 U	110 U	8,600	HH
4-Chlorophenyl Phenyl Ether	50.0 U	100 U	-	-
4-Nitroaniline	85.0 U	170 U	40,000	Eco
4-Nitrophenol	750 U	1,500 U	7,000	Eco
Aniline	38.0 U	75.0 U	200,000	Eco
Benzoic Acid	2,400 U	4,800 U	200,000	Eco
Benzyl Alcohol	93.0 U	190 U	2,260	Eco
Bis(2-chloroethoxy)methane	33.0 U	65.0 U	730,000	Eco
Bis(2-chloroethyl) Ether	60.0 U	120 U	1,000	HH
Bis(2-chloroisopropyl) Ether	30.0 U	60.0 U	1,000	HH
Bis(2-ethylhexyl) Phthalate	**58,000**	**260,000**	4,500	Eco
Butyl Benzyl Phthalate	38.0 U	75.0 U	450	Eco
Carbazole	**37.5 J**	**91.0 J**	2,260	Eco
Dibenzofuran	33.0 U	65.0 U	2.00	Eco
Diethyl Phthalate	88.0 U	180 U	100,000	Eco
Dimethyl Phthalate	45.0 U	90.0 U	150,000	HH
Di-n-butyl Phthalate	65.0 U	130 U	450	Eco
Di-n-octyl Phthalate	30.0 U	60.0 U	450	Eco
Hexachlorobenzene	53.0 U	110 U	1,800	HH
Hexachlorobutadiene	35.0 U	70.0 U	22,000	HH
Hexachlorocyclopentadiene	380 U	750 U	10,000	Eco
Hexachloroethane	55.0 U	110 U	150,000	HH
Isophorone	40.0 U	80.0 U	1,800,000	HH
Nitrobenzene	50.0 U	100 U	8,000	Eco
N-Nitrosodimethylamine	160 U	310 U	34.0	HH
N-Nitrosodi-n-propylamine	80.0 U	160 U	250	HH
N-Nitrosodiphenylamine	55.0 U	110 U	20,000	Eco
p-cresol (4-Methylphenol)	73.0 U	150 U	50,000	Eco
Pentachlorophenol	220 U	430 U	2,100	Eco
Phenol	48.0 U	95.0 U	30,000	Eco
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)				
2-Methylnaphthalene	30.0 U	60.0 U	4,100,000	HH
Acenaphthene	**34.5 J**	**68.0 J**	19,000,000	HH
Acenaphthylene	35.0 U	70.0 U	23,000	HH
Anthracene	**53.5 J**	**150 J**	93,000,000	HH
Fluorene	43.0 U	85.0 U	12,000,000	HH
Naphthalene	33.0 U	65.0 U	23,000	HH
Phenanthrene	**360**	**940**	93,000,000	HH
Total LPAHs (KM, capped; NDs at MDL)	**549 J**	**1,356 J**	29,000	Eco
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)				
Benzo(a)anthracene	**455**	**1,200**	2,700	HH
Benzo(a)pyrene	**435**	**1,000**	270	HH
Benzo(b)fluoranthene	**645**	**1,600**	2,700	HH
Benzo(g,h,i)perylene	**270**	**590**	27,000	HH
Benzo(k)fluoranthene	**230**	**570**	27,000	HH
Chrysene	**575**	**1,500**	270,000	HH
Dibenz(a,h)anthracene	**95.5 J**	**220 J**	270	HH
Fluoranthene	**825**	**2,100**	8,900,000	HH
Indeno(1,2,3-cd)pyrene	**300**	**690**	2,700	HH
Pyrene	**775**	**1,900**	6,700,000	HH
Total HPAHs (KM, capped; NDs at MDL)	**4,606 J**	**11,370 J**	1,100	Eco

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit
- = Not Analyzed
-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-3h
2008-2009 Sandblast Area AOPC Quarterly Groundwater Analytical Results
Metals, Petroleum Hydrocarbons, Butyltins, Polycyclic Aromatic Hydrodarbons, and General Chemistry Parameters
(Page 1 of 2)

Site ID	MW-11*	MW-11	MW-11*	MW-11*	MW-12	MW-12	MW-12	MW-12	MW-13	MW-13*	MW-13	MW-13	MW-14	MW-14	MW-14	MW-14	MW-15	MW-15	MW-15	MW-15	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	080415MW11GW	080715MW11GW	081020MW11GW	090112MW11GW	080415MW12GW	080715MW12GW	081021MW12GW	090113MW12GW	080414MW13GW	080714MW13GW	081020MW13GW	090112MW13GW	080414MW14GW	080714MW14GW	081021MW14GW	090113MW14GW	080414MW15GW	080714MW15GW	081021MW15GW	090113MW15GW				
Sample Date	4/15/2008	7/15/2008	10/20/2008	1/12/2009	4/15/2008	7/15/2008	10/21/2008	1/13/2009	4/14/2008	7/14/2008	10/20/2008	1/12/2009	4/14/2008	7/14/2008	10/21/2008	1/13/2009	4/14/2008	7/14/2008	10/21/2008	1/13/2009				
Sample Depth (Feet btc)	31	31	31	31	28	21	26	26	31	31	31	30	18	18	18	18	17	17	17	17				
Total Metals (µg/L)																								
Arsenic	**11.6**	**1.13**	**0.690**	**0.600**	**0.610**	**0.760**	**0.710**	**0.600**	**1.86**	**0.785**	**0.860**	**1.00**	**0.790**	**1.02**	**1.12**	**1.00**	**0.540**	**0.750**	**0.590**	**0.600**	0.0180	HH	0.0380	HH
Iron	**1,500**	**179**	**88.9**	**148**	50.4 U	**108**	**14.1 J**	20.0 U	55.6 U	**222**	**312**	**265**	**188**	**25.7**	**12.9 J**	43.2 U	**163**	**190**	**36.8**	**90.6**	300	HH	26,000	HH
Vanadium	**5.90 J**	**0.860**	**0.315**	**0.365**	**1.10 J**	**1.27**	**0.960**	**1.43**	**1.00 J**	0.200 U	0.0700 U	**0.130 J**	**1.80 J**	**1.64**	**2.00**	**1.72**	**1.40 J**	**1.68**	**1.30**	**1.57**	-	-	2.60	HH
Dissolved Metals (µg/L)																								
Arsenic	**8.99**	**1.11**	**0.610**	**0.550**	**0.610**	**0.870**	**0.620**	**0.800**	**1.79**	**0.780**	**0.900**	**0.900**	**0.840**	**1.01**	**0.970**	**0.900**	**0.510**	**0.630**	**0.620**	**0.600**	0.0180	HH	0.0380	HH
Calcium	**6,690**	-	-	-	**30,900**	-	-	-	**44,300**	-	-	-	**22,700**	-	-	-	**28,200**	-	-	-	116,000	Eco	116,000	Eco
Iron	4.00 U	**52.5**	20.0 U	20.0 U	4.00 U	**7.10 J**	20.0 U	20.0 U	**12.4 J**	**202**	**270**	**202**	4.00 U	4.00 U	4.00 U	20.0 U	**6.40 J**	4.00 U	4.00 U	20.0 U	300	HH	1,000	Eco
Magnesium	**883**	-	-	-	**8,430**	-	-	-	**14,000**	-	-	-	**6,140**	-	-	-	**7,120**	-	-	-	82,000	Eco	82,000	Eco
Potassium	**2,610**	-	-	-	**2,260**	-	-	-	**1,480 J**	-	-	-	**1,170 J**	-	-	-	**782 J**	-	-	-	53,000	Eco	53,000	Eco
Sodium	**89,400**	-	-	-	**13,400**	-	-	-	**18,400**	-	-	-	**6,860**	-	-	-	**7,620**	-	-	-	680,000	Eco	680,000	Eco
Vanadium	**3.10 J**	0.690 U	**0.205 J**	**0.145 J**	0.800 U	**1.05**	**0.820**	**1.17**	**1.10 J**	0.200 U	0.0700 U	0.0700 U	**1.10 J**	**1.68**	**1.98**	**1.64**	**0.900 J**	**1.19**	**1.22**	**1.41**	20.0	Eco	2.60	HH
Total Petroleum Hydrocarbons (µg/L)																								
Diesel Range Organics	12.0 U	**18.0 J**	11.0 U	110 U	120 U	**17.0 J**	12.0 U	12.0 U	12.0 U	100 U	12.0 U	120 U	11.0 U	100 U	12.0 U	13.0 U	13.0 U	110 U	12.0 U	120 U	-	-	90.0	HH
Residual Range Organics	20.0 U	110 U	19.0 U	110 U	22.0 U	110 U	21.0 U	110 U	20.0 U	100 U	21.0 U	120 U	19.0 U	100 U	20.0 U	120 U	22.0 U	110 U	20.0 U	120 U	-	-	290	HH
Gasoline Range Organics	**13.5 J**	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	**15.0 J**	**23.5 J**	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	-	-	100	HH
Total Butyltins (µg/L)																								
Monobutyltin	**0.0260 J**	0.0290 U	0.0290 U	0.0290 U	0.0110 U	0.0290 U	0.0290 U	0.0290 U	**0.0140 J**	0.0290 U	0.0290 U	0.0290 U	0.0110 U	0.0290 U	0.0290 U	0.0290 U	0.0110 U	0.0290 U	0.0290 U	0.0290 U	0.0630	Eco	0.0630	Eco
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/L)																								
Phenanthrene	0.0230 U	0.0220 U	0.0220 U	0.0220 U	0.0230 U	0.0220 U	0.0220 U	0.0220 U	**0.0840 J**	0.0220 U	0.0220 U	0.0240 U	0.0240 U	0.0220 U	0.0220 U	0.0250 U	0.0230 U	0.0240 U	0.0220 U	0.0240 U	6.30	Eco	0.140	HH
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/L)																								
Benzo(b)fluoranthene	0.0180 U	0.0170 U	0.0170 U	0.0170 U	**0.0180 J**	0.0170 U	0.0170 U	0.0170 U	0.0200 U	0.0170 U	0.0170 U	0.0190 U	0.0190 U	0.0170 U	0.0170 U	0.0200 U	0.0180 U	0.0190 U	0.0170 U	0.0190 U	0.00380	HH	0.0290	HH
Benzo(k)fluoranthene	0.0250 U	0.0240 U	0.0240 U	0.0240 U	0.0250 U	0.0240 U	0.0240 U	0.0240 U	0.0270 U	0.0240 U	0.0240 U	0.0260 U	0.0260 U	0.0240 U	0.0240 U	0.0280 U	0.0250 U	0.0270 U	0.0240 U	0.0260 U	0.00380	HH	0.290	HH
General Chemistry Parameters (mg/L)																								
Dissolved Bromide	**0.0140 J**	-	-	-	**0.0160 J**	-	-	-	0.0100 U	-	-	-	0.0100 U	-	-	-	0.0100 U	-	-	-	-	-	-	-
Dissolved Chloride	**2.50**	-	-	-	**4.40**	-	-	-	**3.00**	-	-	-	**2.10**	-	-	-	**2.40**	-	-	-	230	Eco	230	Eco
Dissolved Fluoride	**0.200**	-	-	-	**0.0820 J**	-	-	-	**0.0690 J**	-	-	-	**0.0550 J**	-	-	-	**0.0510 J**	-	-	-	-	-	1.50	HH
Dissolved Sulfate	**25.0**	-	-	-	**10.1**	-	-	-	**14.5**	-	-	-	**13.1**	-	-	-	**13.1**	-	-	-	-	-	-	-
Dissolved Ammonia	**0.0650 J**	-	-	-	**0.0500 J**	-	-	-	**0.100**	-	-	-	**0.0400 J**	-	-	-	**0.0300 J**	-	-	-	-	-	-	-
Dissolved Nitrate+Nitrite	**0.0185 J**	-	-	-	**0.110**	-	-	-	**0.00700 J**	-	-	-	**0.200**	-	-	-	**0.0260 J**	-	-	-	-	-	10.0	HH
Total Organic Carbon	**1.00**	-	-	-	**1.90**	-	-	-	**0.800**	-	-	-	**0.800**	-	-	-	**1.00**	-	-	-	-	-	-	-
Dissolved Organic Carbon	**1.80 J**	-	-	-	**1.70**	-	-	-	**0.700**	-	-	-	**2.50 J**	-	-	-	**1.00**	-	-	-	-	-	-	-
Dissolved Carbonate as CaCO3	**38.0 J**	-	-	-	1.00 U	-	-	-	1.00 U	-	-	-	1.00 U	-	-	-	1.00 U	-	-	-	-	-	-	-

Notes:

µg/L = microgram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed

-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-3h
2008-2009 Sandblast Area AOPC Quarterly Groundwater Analytical Results
Metals, Petroleum Hydrocarbons, Butyltins, Polycyclic Aromatic Hydrodarbons, and General Chemistry Parameters
(Page 2 of 2)

Site ID	MW-13	MW-13	MW-14	MW-14	MW-14	MW-14	MW-15	MW-15	MW-15	MW-15	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	081020MW13GW	090112MW13GW	080414MW14GW	080714MW14GW	081021MW14GW	090113MW14GW	080414MW15GW	080714MW15GW	081021MW15GW	090113MW15GW				
Sample Date	10/20/2008	1/12/2009	4/14/2008	7/14/2008	10/21/2008	1/13/2009	4/14/2008	7/14/2008	10/21/2008	1/13/2009				
Sample Depth (Feet btc)	31	30	18	18	18	18	17	17	17	17				
Total Metals (µg/L)														
Arsenic	**0.860**	**1.00**	**0.790**	**1.02**	**1.12**	**1.00**	**0.540**	**0.750**	**0.590**	**0.600**	0.0180	HH	0.0380	HH
Iron	**312**	**265**	**188**	**25.7**	**12.9 J**	43.2 U	**163**	**190**	**36.8**	**90.6**	300	HH	26,000	HH
Vanadium	0.0700 U	**0.130 J**	**1.80 J**	**1.64**	**2.00**	**1.72**	**1.40 J**	**1.68**	**1.30**	**1.57**	-	-	2.60	HH
Dissolved Metals (µg/L)														
Arsenic	**0.900**	**0.900**	**0.840**	**1.01**	**0.970**	**0.900**	**0.510**	**0.630**	**0.620**	**0.600**	0.0180	HH	0.0380	HH
Calcium	-	-	**22,700**	-	-	-	**28,200**	-	-	-	116,000	Eco	116,000	Eco
Iron	**270**	**202**	4.00 U	4.00 U	4.00 U	20.0 U	**6.40 J**	4.00 U	4.00 U	20.0 U	300	HH	1,000	Eco
Magnesium	-	-	**6,140**	-	-	-	**7,120**	-	-	-	82,000	Eco	82,000	Eco
Potassium	-	-	**1,170 J**	-	-	-	**782 J**	-	-	-	53,000	Eco	53,000	Eco
Sodium	-	-	**6,860**	-	-	-	**7,620**	-	-	-	680,000	Eco	680,000	Eco
Vanadium	0.0700 U	0.0700 U	**1.10 J**	**1.68**	**1.98**	**1.64**	**0.900 J**	**1.19**	**1.22**	**1.41**	20.0	Eco	2.60	HH
Total Petroleum Hydrocarbons (µg/L)														
Diesel Range Organics	12.0 U	120 U	11.0 U	100 U	12.0 U	13.0 U	13.0 U	110 U	12.0 U	120 U	-	-	90.0	HH
Residual Range Organics	21.0 U	120 U	19.0 U	100 U	20.0 U	120 U	22.0 U	110 U	20.0 U	120 U	-	-	290	HH
Gasoline Range Organics	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U	-	-	100	HH
Total Butyltins (µg/L)														
Monobutyltin	0.0290 U	0.0290 U	0.0110 U	0.0290 U	0.0290 U	0.0290 U	0.0110 U	0.0290 U	0.0290 U	0.0290 U	0.0630	Eco	0.0630	Eco
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/L)														
Phenanthrene	0.0220 U	0.0240 U	0.0240 U	0.0220 U	0.0220 U	0.0250 U	0.0230 U	0.0240 U	0.0220 U	0.0240 U	6.30	Eco	0.140	HH
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/L)														
Benzo(b)fluoranthene	0.0170 U	0.0190 U	0.0190 U	0.0170 U	0.0170 U	0.0200 U	0.0180 U	0.0190 U	0.0170 U	0.0190 U	0.00380	HH	0.0290	HH
Benzo(k)fluoranthene	0.0240 U	0.0260 U	0.0260 U	0.0240 U	0.0240 U	0.0280 U	0.0250 U	0.0270 U	0.0240 U	0.0260 U	0.00380	HH	0.290	HH
General Chemistry Parameters (mg/L)														
Dissolved Bromide	-	-	0.0100 U	-	-	-	0.0100 U	-	-	-	-	-	-	-
Dissolved Chloride	-	-	**2.10**	-	-	-	**2.40**	-	-	-	230	Eco	230	Eco
Dissolved Fluoride	-	-	**0.0550 J**	-	-	-	**0.0510 J**	-	-	-	-	-	1.50	HH
Dissolved Sulfate	-	-	**13.1**	-	-	-	**13.1**	-	-	-	-	-	-	-
Dissolved Ammonia	-	-	**0.0400 J**	-	-	-	**0.0300 J**	-	-	-	-	-	-	-
Dissolved Nitrate+Nitrite	-	-	**0.200**	-	-	-	**0.0260 J**	-	-	-	-	-	10.0	HH
Total Organic Carbon	-	-	**0.800**	-	-	-	**1.00**	-	-	-	-	-	-	-
Dissolved Organic Carbon	-	-	**2.50 J**	-	-	-	**1.00**	-	-	-	-	-	-	-
Dissolved Carbonate as CaCO3	-	-	1.00 U	-	-	-	1.00 U	-	-	-	-	-	-	-

Notes:

µg/L = microgram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed

-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-3i
2008-2009 Sandblast Area AOPC Quarterly Groundwater Analytical Results
Volatile Organic Compounds
(Page 1 of 3)

Site ID	MW-11*	MW-11	MW-11*	MW-11*	MW-12	MW-12	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	080415MW11GW	080715MW11GW	081020MW11GW	090112MW11GW	080415MW12GW	080715MW12GW				
Sample Date	4/15/2008	7/15/2008	10/20/2008	1/12/2009	4/15/2008	7/15/2008				
Sample Depth (Feet btc)	31	31	31	31	28	21				
Total Volatile Organic Compounds (µg/L)										
1,1,1,2-Tetrachloroethane	0.0450 U	-	-	-	0.0450 U	-	186	Eco	0.520	HH
1,1,1-Trichloroethane (TCA)	0.0620 U	-	-	-	**1.90**	-	11.0	Eco	11.0	Eco
1,1,2,2-Tetrachloroethane	0.0880 U	-	-	-	0.0880 U	-	0.170	HH	0.0670	HH
1,1,2-Trichloroethane	0.0940 U	-	-	-	0.0940 U	-	0.590	HH	0.230	HH
1,1-Dichloroethane	0.0590 U	-	-	-	**5.00**	-	47.0	Eco	2.30	HH
1,1-Dichloroethene	0.100 U	-	-	-	**2.10**	-	25.0	Eco	25.0	Eco
1,1-Dichloropropene	0.0620 U	-	-	-	0.0620 U	-	-	-	0.430	HH
1,2,3-Trichlorobenzene	0.0840 U	-	-	-	0.0840 U	-	8.00	Eco	2.30	HH
1,2,3-Trichloropropane	0.240 U	-	-	-	0.240 U	-	-	-	0.000720	HH
1,2,4-Trichlorobenzene	0.180 U	-	-	-	0.180 U	-	35.0	HH	2.30	HH
1,2,4-Trimethylbenzene	0.0620 U	-	-	-	0.0620 U	-	7.30	Eco	7.30	Eco
1,2-Dibromo-3-chloropropane	0.500 U	-	-	-	0.500 U	-	-	-	0.000320	HH
1,2-Dibromoethane (EDB)	0.0720 U	-	-	-	0.0720 U	-	-	-	0.00630	HH
1,2-Dichlorobenzene	0.0690 U	-	-	-	0.0690 U	-	14.0	Eco	14.0	Eco
1,2-Dichloroethane (EDC)	0.0660 U	-	-	-	0.0660 U	-	0.380	HH	0.140	HH
1,2-Dichloropropane	0.0620 U	-	-	-	0.0620 U	-	0.500	HH	0.390	HH
1,3,5-Trimethylbenzene	0.0660 U	-	-	-	0.0660 U	-	7.30	Eco	7.30	Eco
1,3-Dichlorobenzene	0.0820 U	-	-	-	0.0820 U	-	71.0	Eco	0.420	HH
1,3-Dichloropropane	0.0570 U	-	-	-	0.0570 U	-	5,700	Eco	730	HH
1,4-Dichlorobenzene	0.0840 U	-	-	-	0.0840 U	-	15.0	Eco	0.420	HH
2,2-Dichloropropane	0.0830 U	0.0830 U	0.0830 U	0.0830 U	0.0830 U	0.420 U	0.500	HH	0.390	HH
2-Butanone (MEK)	2.30 U	-	-	-	2.30 U	-	14,000	Eco	7,100	HH
2-Chlorotoluene	0.0790 U	-	-	-	0.0790 U	-	-	-	730	HH
2-Hexanone	2.40 U	-	-	-	2.40 U	-	99.0	Eco	47.0	HH
4-Chlorotoluene	0.0570 U	-	-	-	0.0570 U	-	-	-	2,600	HH
4-Isopropyltoluene	0.0700 U	-	-	-	0.0700 U	-	-	-	-	-
4-Methyl-2-pentanone (MIBK)	1.40 U	-	-	-	1.40 U	-	170	Eco	170	Eco
Acetone	3.00 U	-	-	-	3.00 U	-	1,500	Eco	1,500	Eco
Benzene	0.0620 U	-	-	-	0.0620 U	-	2.20	HH	0.390	HH
Bromobenzene	0.0660 U	-	-	-	0.0660 U	-	-	-	88.0	HH
Bromochloromethane	0.0990 U	-	-	-	0.0990 U	-	0.550	HH	0.120	HH
Bromodichloromethane	0.0550 U	-	-	-	0.0550 U	-	0.550	HH	0.120	HH
Bromoform	0.0990 U	-	-	-	0.0990 U	-	4.30	HH	7.20	HH
Bromomethane	0.120 U	-	-	-	0.120 U	-	16.0	Eco	8.70	HH
Carbon Disulfide	**0.255 J**	-	-	-	**0.200 J**	-	0.920	Eco	0.920	Eco
Carbon Tetrachloride	0.0480 U	-	-	-	0.0480 U	-	0.230	HH	0.190	HH
Chlorobenzene	0.0640 U	-	-	-	0.0640 U	-	50.0	Eco	50.0	Eco
Chloroethane	0.130 U	-	-	-	0.130 U	-	-	-	21,000	HH
Chloroform	**0.180 J**	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.410 U	5.70	HH	0.190	HH
Chloromethane	0.110 U	-	-	-	0.110 U	-	-	-	190	HH
cis-1,2-Dichloroethene	0.0660 U	0.0660 U	0.0660 U	0.0660 U	**550**	**660**	590	Eco	360	HH
cis-1,3-Dichloropropene	0.0550 U	-	-	-	0.0550 U	-	0.0550	Eco	0.0550	Eco
Dibromochloromethane	0.0720 U	-	-	-	0.0720 U	-	0.400	HH	0.680	HH
Dibromomethane	0.120 U	-	-	-	0.120 U	-	-	-	8.20	HH
Dichlorodifluoromethane	0.0750 U	-	-	-	0.0750 U	-	-	-	390	HH
Dichloromethane (Methylene Chloride)	**0.175 J**	-	-	-	0.0840 U	-	4.60	HH	4.40	HH
Ethylbenzene	0.0680 U	-	-	-	0.0680 U	-	7.30	Eco	1.40	HH
Hexachlorobutadiene	0.150 U	-	-	-	0.150 U	-	0.440	HH	0.860	HH
Isopropylbenzene	0.0760 U	-	-	-	0.0760 U	-	7.30	Eco	7.30	Eco
m,p-Xylenes	0.110 U	-	-	-	0.110 U	-	13.0	Eco	13.0	Eco
Naphthalene	0.0960 U	-	-	-	0.0960 U	-	620	Eco	0.140	HH
n-Butylbenzene	0.0850 U	-	-	-	0.0850 U	-	-	-	-	-
n-Propylbenzene	0.00590 U	-	-	-	0.00590 U	-	7.30	Eco	7.30	Eco
o-Xylene	0.0680 U	-	-	-	0.0680 U	-	350	Eco	350	Eco
sec-Butylbenzene	0.0710 U	-	-	-	0.0710 U	-	-	-	-	-
Styrene	0.0770 U	-	-	-	0.0770 U	-	72.0	Eco	72.0	Eco
tert-Butylbenzene	0.0590 U	-	-	-	0.0590 U	-	-	-	-	-
Tetrachloroethene (PCE)	0.0970 U	0.0970 U	0.0970 U	0.0970 U	**5.10**	**5.10**	0.690	HH	0.0930	HH
Toluene	**0.510 J**	-	-	-	**0.580**	-	9.80	Eco	9.80	Eco
trans-1,2-Dichloroethene	0.0690 U	-	-	-	**1.70**	-	140	HH	110	HH
trans-1,3-Dichloropropene	0.0750 U	-	-	-	0.0750 U	-	0.0550	Eco	0.0550	Eco
Trichloroethene (TCE)	0.0730 U	0.0730 U	0.0730 U	0.0730 U	**3.20**	**3.00**	2.50	HH	0.0390	HH
Trichlorofluoromethane	0.0990 U	-	-	-	0.0990 U	-	-	-	1,300	HH
Vinyl Acetate	0.910 U	-	-	-	0.910 U	-	16.0	Eco	16.0	Eco
Vinyl Chloride	0.0440 U	0.0440 U	0.0440 U	0.0440 U	**4.10**	**0.900 J**	0.0250	HH	0.0250	HH

Notes:

µg/L = microgram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-3i
2008-2009 Sandblast Area AOPC Quarterly Groundwater Analytical Results
Volatile Organic Compounds
(Page 2 of 3)

Site ID	MW-12	MW-12	MW-13	MW-13*	MW-13	MW-13	MW-14	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	081021MW12GW	090113MW12GW	080414MW13GW	080714MW13GW	081020MW13GW	090112MW13GW	080414MW14GW				
Sample Date	10/21/2008	1/13/2009	4/14/2008	7/14/2008	10/20/2008	1/12/2009	4/14/2008				
Sample Depth (Feet btc)	26	26	31	31	31	30	18				
Total Volatile Organic Compounds (µg/L)											
1,1,1,2-Tetrachloroethane	-	-	0.0450 U	-	-	-	0.0450 U	186	Eco	0.520	HH
1,1,1-Trichloroethane (TCA)	-	-	0.0620 U	-	-	-	**0.220 J**	11.0	Eco	11.0	Eco
1,1,2,2-Tetrachloroethane	-	-	0.0880 U	-	-	-	0.0880 U	0.170	HH	0.0670	HH
1,1,2-Trichloroethane	-	-	0.0940 U	-	-	-	0.0940 U	0.590	HH	0.230	HH
1,1-Dichloroethane	-	-	0.0590 U	-	-	-	**0.320 J**	47.0	Eco	2.30	HH
1,1-Dichloroethene	-	-	0.100 U	-	-	-	0.100 U	25.0	Eco	25.0	Eco
1,1-Dichloropropene	-	-	0.0620 U	-	-	-	0.0620 U	-	-	0.430	HH
1,2,3-Trichlorobenzene	-	-	0.0840 U	-	-	-	0.0840 U	8.00	Eco	2.30	HH
1,2,3-Trichloropropane	-	-	0.240 U	-	-	-	0.240 U	-	-	0.000720	HH
1,2,4-Trichlorobenzene	-	-	0.180 U	-	-	-	0.180 U	35.0	HH	2.30	HH
1,2,4-Trimethylbenzene	-	-	0.0620 U	-	-	-	0.0620 U	7.30	Eco	7.30	Eco
1,2-Dibromo-3-chloropropane	-	-	0.500 U	-	-	-	0.500 U	-	-	0.000320	HH
1,2-Dibromoethane (EDB)	-	-	0.0720 U	-	-	-	0.0720 U	-	-	0.00630	HH
1,2-Dichlorobenzene	-	-	0.0690 U	-	-	-	0.0690 U	14.0	Eco	14.0	Eco
1,2-Dichloroethane (EDC)	-	-	0.0660 U	-	-	-	0.0660 U	0.380	HH	0.140	HH
1,2-Dichloropropane	-	-	0.0620 U	-	-	-	0.0620 U	0.500	HH	0.390	HH
1,3,5-Trimethylbenzene	-	-	0.0660 U	-	-	-	0.0660 U	7.30	Eco	7.30	Eco
1,3-Dichlorobenzene	-	-	0.0820 U	-	-	-	0.0820 U	71.0	Eco	0.420	HH
1,3-Dichloropropane	-	-	0.0570 U	-	-	-	0.0570 U	5,700	Eco	730	HH
1,4-Dichlorobenzene	-	-	0.0840 U	-	-	-	0.0840 U	15.0	Eco	0.420	HH
2,2-Dichloropropane	0.210 U	0.210 U	0.0830 U	0.0830 U	0.0830 U	0.0830 U	0.0830 U	0.500	HH	0.390	HH
2-Butanone (MEK)	-	-	2.30 U	-	-	-	2.30 U	14,000	Eco	7,100	HH
2-Chlorotoluene	-	-	0.0790 U	-	-	-	0.0790 U	-	-	730	HH
2-Hexanone	-	-	2.40 U	-	-	-	2.40 U	99.0	Eco	47.0	HH
4-Chlorotoluene	-	-	0.0570 U	-	-	-	0.0570 U	-	-	2,600	HH
4-Isopropyltoluene	-	-	0.0700 U	-	-	-	0.0700 U	-	-	-	-
4-Methyl-2-pentanone (MIBK)	-	-	1.40 U	-	-	-	1.40 U	170	Eco	170	Eco
Acetone	-	-	3.00 U	-	-	-	3.00 U	1,500	Eco	1,500	Eco
Benzene	-	-	0.0620 U	-	-	-	0.0620 U	2.20	HH	0.390	HH
Bromobenzene	-	-	0.0660 U	-	-	-	0.0660 U	-	-	88.0	HH
Bromochloromethane	-	-	0.0990 U	-	-	-	0.0990 U	0.550	HH	0.120	HH
Bromodichloromethane	-	-	0.0550 U	-	-	-	0.0550 U	0.550	HH	0.120	HH
Bromoform	-	-	0.0990 U	-	-	-	0.0990 U	4.30	HH	7.20	HH
Bromomethane	-	-	0.120 U	-	-	-	0.120 U	16.0	Eco	8.70	HH
Carbon Disulfide	-	-	**0.170 J**	-	-	-	**0.120 J**	0.920	Eco	0.920	Eco
Carbon Tetrachloride	-	-	0.0480 U	-	-	-	0.0480 U	0.230	HH	0.190	HH
Chlorobenzene	-	-	0.0640 U	-	-	-	0.0640 U	50.0	Eco	50.0	Eco
Chloroethane	-	-	0.130 U	-	-	-	0.130 U	-	-	21,000	HH
Chloroform	0.210 U	0.210 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	5.70	HH	0.190	HH
Chloromethane	-	-	0.110 U	-	-	-	0.110 U	-	-	190	HH
cis-1,2-Dichloroethene	**600**	**530**	**2.00**	**2.10**	**2.50**	**2.40**	**46.0**	590	Eco	360	HH
cis-1,3-Dichloropropene	-	-	0.0550 U	-	-	-	0.0550 U	0.0550	Eco	0.0550	Eco
Dibromochloromethane	-	-	0.0720 U	-	-	-	0.0720 U	0.400	HH	0.680	HH
Dibromomethane	-	-	0.120 U	-	-	-	0.120 U	-	-	8.20	HH
Dichlorodifluoromethane	-	-	0.0750 U	-	-	-	0.0750 U	-	-	390	HH
Dichloromethane (Methylene Chloride)	-	-	0.0840 U	-	-	-	0.0840 U	4.60	HH	4.40	HH
Ethylbenzene	-	-	0.0680 U	-	-	-	0.0680 U	7.30	Eco	1.40	HH
Hexachlorobutadiene	-	-	0.150 U	-	-	-	0.150 U	0.440	HH	0.860	HH
Isopropylbenzene	-	-	0.0760 U	-	-	-	0.0760 U	7.30	Eco	7.30	Eco
m,p-Xylenes	-	-	0.110 U	-	-	-	0.110 U	13.0	Eco	13.0	Eco
Naphthalene	-	-	0.0960 U	-	-	-	0.0960 U	620	Eco	0.140	HH
n-Butylbenzene	-	-	0.0850 U	-	-	-	0.0850 U	-	-	-	-
n-Propylbenzene	-	-	0.00590 U	-	-	-	0.00590 U	7.30	Eco	7.30	Eco
o-Xylene	-	-	0.0680 U	-	-	-	0.0680 U	350	Eco	350	Eco
sec-Butylbenzene	-	-	0.0710 U	-	-	-	0.0710 U	-	-	-	-
Styrene	-	-	0.0770 U	-	-	-	0.0770 U	72.0	Eco	72.0	Eco
tert-Butylbenzene	-	-	0.0590 U	-	-	-	0.0590 U	-	-	-	-
Tetrachloroethene (PCE)	**6.20**	**5.80**	**0.360 J**	**0.470 J**	**0.660**	**0.710**	**1.50**	0.690	HH	0.0930	HH
Toluene	-	-	**0.260 J**	-	-	-	**0.640**	9.80	Eco	9.80	Eco
trans-1,2-Dichloroethene	-	-	0.0690 U	-	-	-	**0.110 J**	140	HH	110	HH
trans-1,3-Dichloropropene	-	-	0.0750 U	-	-	-	0.0750 U	0.0550	Eco	0.0550	Eco
Trichloroethene (TCE)	**3.40**	**3.00**	**1.90**	**2.95**	**3.40**	**3.10**	**0.820**	2.50	HH	0.0390	HH
Trichlorofluoromethane	-	-	0.0990 U	-	-	-	0.0990 U	-	-	1,300	HH
Vinyl Acetate	-	-	0.910 U	-	-	-	0.910 U	16.0	Eco	16.0	Eco
Vinyl Chloride	**0.480 J**	**1.60**	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0250	HH	0.0250	HH

Notes:
µg/L = microgram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-3i
2008-2009 Sandblast Area AOPC Quarterly Groundwater Analytical Results
Volatile Organic Compounds
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Site ID	MW-14	MW-14	MW-14	MW-15	MW-15	MW-15	MW-15	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	080714MW14GW	081021MW14GW	090113MW14GW	080414MW15GW	080714MW15GW	081021MW15GW	090113MW15GW				
Sample Date	7/14/2008	10/21/2008	1/13/2009	4/14/2008	7/14/2008	10/21/2008	1/13/2009				
Sample Depth (Feet btc)	18	18	18	17	17	17	17				
Total Volatile Organic Compounds (µg/L)											
1,1,1,2-Tetrachloroethane	-	-	-	0.0450 U	-	-	-	186	Eco	0.520	HH
1,1,1-Trichloroethane (TCA)	-	-	-	0.0620 U	-	-	-	11.0	Eco	11.0	Eco
1,1,2,2-Tetrachloroethane	-	-	-	0.0880 U	-	-	-	0.170	HH	0.0670	HH
1,1,2-Trichloroethane	-	-	-	0.0940 U	-	-	-	0.590	HH	0.230	HH
1,1-Dichloroethane	-	-	-	0.0590 U	-	-	-	47.0	Eco	2.30	HH
1,1-Dichloroethene	-	-	-	0.100 U	-	-	-	25.0	Eco	25.0	Eco
1,1-Dichloropropene	-	-	-	0.0620 U	-	-	-	-	-	0.430	HH
1,2,3-Trichlorobenzene	-	-	-	0.0840 U	-	-	-	8.00	Eco	2.30	HH
1,2,3-Trichloropropane	-	-	-	0.240 U	-	-	-	-	-	0.000720	HH
1,2,4-Trichlorobenzene	-	-	-	0.180 U	-	-	-	35.0	HH	2.30	HH
1,2,4-Trimethylbenzene	-	-	-	0.0620 U	-	-	-	7.30	Eco	7.30	Eco
1,2-Dibromo-3-chloropropane	-	-	-	0.500 U	-	-	-	-	-	0.000320	HH
1,2-Dibromoethane (EDB)	-	-	-	0.0720 U	-	-	-	-	-	0.00630	HH
1,2-Dichlorobenzene	-	-	-	0.0690 U	-	-	-	14.0	Eco	14.0	Eco
1,2-Dichloroethane (EDC)	-	-	-	0.0660 U	-	-	-	0.380	HH	0.140	HH
1,2-Dichloropropane	-	-	-	0.0620 U	-	-	-	0.500	HH	0.390	HH
1,3,5-Trimethylbenzene	-	-	-	0.0660 U	-	-	-	7.30	Eco	7.30	Eco
1,3-Dichlorobenzene	-	-	-	0.0820 U	-	-	-	71.0	Eco	0.420	HH
1,3-Dichloropropane	-	-	-	0.0570 U	-	-	-	5,700	Eco	730	HH
1,4-Dichlorobenzene	-	-	-	0.0840 U	-	-	-	15.0	Eco	0.420	HH
2,2-Dichloropropane	0.0830 U	0.0830 U	0.0830 U	0.0830 U	0.0830 U	0.0830 U	0.0830 U	0.500	HH	0.390	HH
2-Butanone (MEK)	-	-	-	2.30 U	-	-	-	14,000	Eco	7,100	HH
2-Chlorotoluene	-	-	-	0.0790 U	-	-	-	-	-	730	HH
2-Hexanone	-	-	-	2.40 U	-	-	-	99.0	Eco	47.0	HH
4-Chlorotoluene	-	-	-	0.0570 U	-	-	-	-	-	2,600	HH
4-Isopropyltoluene	-	-	-	0.0700 U	-	-	-	-	-	-	-
4-Methyl-2-pentanone (MIBK)	-	-	-	1.40 U	-	-	-	170	Eco	170	Eco
Acetone	-	-	-	3.00 U	-	-	-	1,500	Eco	1,500	Eco
Benzene	-	-	-	0.0620 U	-	-	-	2.20	HH	0.390	HH
Bromobenzene	-	-	-	0.0660 U	-	-	-	-	-	88.0	HH
Bromochloromethane	-	-	-	0.0990 U	-	-	-	0.550	HH	0.120	HH
Bromodichloromethane	-	-	-	0.0550 U	-	-	-	0.550	HH	0.120	HH
Bromoform	-	-	-	0.0990 U	-	-	-	4.30	HH	7.20	HH
Bromomethane	-	-	-	0.120 U	-	-	-	16.0	Eco	8.70	HH
Carbon Disulfide	-	-	-	**0.120 J**	-	-	-	0.920	Eco	0.920	Eco
Carbon Tetrachloride	-	-	-	0.0480 U	-	-	-	0.230	HH	0.190	HH
Chlorobenzene	-	-	-	0.0640 U	-	-	-	50.0	Eco	50.0	Eco
Chloroethane	-	-	-	0.130 U	-	-	-	-	-	21,000	HH
Chloroform	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	5.70	HH	0.190	HH
Chloromethane	-	-	-	0.110 U	-	-	-	-	-	190	HH
cis-1,2-Dichloroethene	**10.0**	**0.620**	**50.0**	**0.440 J**	**0.170 J**	**0.0800 J**	0.0660 U	590	Eco	360	HH
cis-1,3-Dichloropropene	-	-	-	0.0550 U	-	-	-	0.0550	Eco	0.0550	Eco
Dibromochloromethane	-	-	-	0.0720 U	-	-	-	0.400	HH	0.680	HH
Dibromomethane	-	-	-	0.120 U	-	-	-	-	-	8.20	HH
Dichlorodifluoromethane	-	-	-	0.0750 U	-	-	-	-	-	390	HH
Dichloromethane (Methylene Chloride)	-	-	-	0.0840 U	-	-	-	4.60	HH	4.40	HH
Ethylbenzene	-	-	-	0.0680 U	-	-	-	7.30	Eco	1.40	HH
Hexachlorobutadiene	-	-	-	0.150 U	-	-	-	0.440	HH	0.860	HH
Isopropylbenzene	-	-	-	0.0760 U	-	-	-	7.30	Eco	7.30	Eco
m,p-Xylenes	-	-	-	0.110 U	-	-	-	13.0	Eco	13.0	Eco
Naphthalene	-	-	-	0.0960 U	-	-	-	620	Eco	0.140	HH
n-Butylbenzene	-	-	-	0.0850 U	-	-	-	-	-	-	-
n-Propylbenzene	-	-	-	0.00590 U	-	-	-	7.30	Eco	7.30	Eco
o-Xylene	-	-	-	0.0680 U	-	-	-	350	Eco	350	Eco
sec-Butylbenzene	-	-	-	0.0710 U	-	-	-	-	-	-	-
Styrene	-	-	-	0.0770 U	-	-	-	72.0	Eco	72.0	Eco
tert-Butylbenzene	-	-	-	0.0590 U	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	**1.10**	**0.380 J**	**1.80**	**1.80**	**1.60**	**2.10**	**1.10**	0.690	HH	0.0930	HH
Toluene	-	-	-	**0.230 J**	-	-	-	9.80	Eco	9.80	Eco
trans-1,2-Dichloroethene	-	-	-	0.0690 U	-	-	-	140	HH	110	HH
trans-1,3-Dichloropropene	-	-	-	0.0750 U	-	-	-	0.0550	Eco	0.0550	Eco
Trichloroethene (TCE)	**0.610**	**0.140 J**	**0.890**	**0.270 J**	**0.230 J**	**0.250 J**	0.0730 U	2.50	HH	0.0390	HH
Trichlorofluoromethane	-	-	-	0.0990 U	-	-	-	-	-	1,300	HH
Vinyl Acetate	-	-	-	0.910 U	-	-	-	16.0	Eco	16.0	Eco
Vinyl Chloride	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0440 U	0.0250	HH	0.0250	HH

Notes:
µg/L = microgram per liter
btc = below top of well casing
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-3j
2009 Sandblast Area AOPC Soil Gas Analytical Results
Volatile Organic Compounds

Site ID	SB-10	SB-11	SB-12*	SB-13	SB-14	Selected SLV	SLV Source
Sample ID	090126-SB-SB10-3_5-4SG	090126-SB-SB11-3_5-4SG	090126-SB-SB12-3_5-4SG	090126-SB-SB13-3_5-4SG	090126-SB-SB14-3_5-4SG		
Sample Date	1/26/2009	1/26/2009	1/26/2009	1/26/2009	1/26/2009		
Sample Depth (Feet bgs)	3.5-4.0	3.5-4.0	3.5-4.0	3.5-4.0	3.5-4.0		
Total Volatile Organic Compounds (µg/m^3)							
1,1,1-Trichloroethane (TCA)	**8.10 J**	**13.0**	**98.0 J**	**5.20 J**	**16.0 J**	22,000,000	HH
1,1,2,2-Tetrachloroethane	1.90 U	2.70 U	110 U	5.80 U	6.00 U	210	HH
1,1,2-Trichloroethane	2.00 U	2.90 U	110 U	6.20 U	6.30 U	770	HH
1,1-Dichloroethane	0.980 U	1.40 U	56.0 U	3.00 U	3.10 U	7,700	HH
1,1-Dichloroethene	0.840 U	1.20 U	48.0 U	2.60 U	2.70 U	880,000	HH
1,2,4-Trichlorobenzene	12.0 U	17.0 U	660 U	36.0 U	37.0 U	8,800	HH
1,2,4-Trimethylbenzene	**95.0**	**930**	**18,500**	**2,000**	**270**	31,000	HH
1,2-Dibromoethane (EDB)	1.20 U	1.70 U	66.0 U	3.60 U	3.70 U	20.0	HH
1,2-Dichlorobenzene	1.60 U	2.40 U	93.0 U	5.10 U	5.20 U	880,000	HH
1,2-Dichloroethane (EDC)	0.860 U	1.20 U	49.0 U	2.70 U	2.70 U	470	HH
1,2-Dichloropropane	0.980 U	1.40 U	56.0 U	3.00 U	3.10 U	1,200	HH
1,3,5-Trimethylbenzene	**30.0**	**240**	**6,250**	**610**	**68.0**	26,000	HH
1,3-Butadiene	**10.0**	**2.20 J**	23.0 U	**12.0**	**210**	410	HH
1,3-Dichlorobenzene	1.80 U	2.60 U	100 U	5.60 U	5.80 U	1,100	HH
1,4-Dichlorobenzene	1.80 U	2.60 U	100 U	5.60 U	5.80 U	1,100	HH
1,4-Dioxane	**1.10 J**	1.10 U	43.0 U	2.40 U	2.40 U	1,600	HH
2,2,4-Trimethylpentane	**1.80 J**	1.20 U	48.0 U	2.60 U	2.70 U	31,000	HH
2-Butanone (MEK)	**31.0**	1.70 U	66.0 U	3.60 U	**16.0**	22,000,000	HH
2-Hexanone	2.40 U	3.40 U	130 U	7.30 U	7.50 U	130,000	HH
2-Propanol	1.50 U	2.20 U	84.0 U	4.60 U	4.80 U	31,000,000	HH
3-Chloropropene	2.60 U	3.90 U	150 U	8.20 U	8.50 U	2,000	HH
4-Ethyltoluene	**85.0**	**260**	**9,150**	**680**	**74.0**	22,000,000	HH
4-Methyl-2-pentanone (MIBK)	**2.10 J**	1.10 U	42.0 U	2.30 U	2.40 U	13,000,000	HH
Acetone	**97.0**	21.0 U	86.0 U	4.70 U	**83.0**	140,000,000	HH
alpha-Chlorotoluene	1.60 U	2.30 U	89.0 U	4.90 U	5.00 U	250	HH
Benzene	**18.0**	**2.10 J**	27.0 U	**7.00 J**	**85.0**	1,600	HH
Bromodichloromethane	0.610 U	0.890 U	34.0 U	1.90 U	1.90 U	330	HH
Bromoform	3.10 U	4.60 U	180 U	9.70 U	10.0 U	11,000	HH
Bromomethane	1.40 U	2.00 U	80.0 U	4.40 U	4.50 U	22,000	HH
Carbon Disulfide	4.70 U	**1.80 J**	27.0 U	**5.90 J**	**42.0**	3,100,000	HH
Carbon Tetrachloride	1.10 U	1.70 U	65.0 U	3.50 U	3.60 U	820	HH
Chlorobenzene	1.10 U	1.60 U	63.0 U	3.50 U	3.60 U	220,000	HH
Chloroethane	0.640 U	0.930 U	36.0 U	2.00 U	2.00 U	44,000,000	HH
Chloroform	**0.750 J**	1.10 U	42.0 U	2.30 U	2.40 U	530	HH
Chloromethane	0.940 U	1.40 U	53.0 U	2.90 U	3.00 U	390,000	HH
cis-1,2-Dichloroethene	**330**	**69.0**	**145 J**	**8.60 J**	**21.0**	260,000	HH
cis-1,3-Dichloropropene	0.550 U	0.800 U	31.0 U	1.70 U	1.80 U	3,100	HH
Cyclohexane	**3.00 J**	0.760 U	30.0 U	**1.80 J**	**24.0**	26,000,000	HH
Dibromochloromethane	1.80 U	2.60 U	100 U	5.60 U	5.80 U	450	HH
Dichlorodifluoromethane	**3.20 J**	**3.00 J**	76.0 U	4.20 U	4.30 U	880,000	HH
Dichloromethane (Methylene Chloride)	**1.80 J**	1.50 U	60.0 U	3.30 U	3.40 U	26,000	HH
Ethanol	**13.0**	**13.0 J**	100 U	5.70 U	5.80 U	--	--
Ethylbenzene	**82.0**	**27.0**	**1,550**	**78.0**	**25.0**	4,900	HH
Freon 113	1.20 U	1.70 U	66.0 U	3.60 U	3.70 U	130,000,000	HH
Freon 114	1.50 U	2.20 U	84.0 U	4.60 U	4.70 U	130,000,000	HH
Heptane	**36.0**	9.00 U	**87.0 J**	**7.60 J**	**67.0**	3,100,000	HH
Hexachlorobutadiene	17.0 U	25.0 U	970 U	53.0 U	55.0 U	560	HH
Hexane	**12.0**	**1.30 J**	42.0 U	**8.60 J**	**110**	3,100,000	HH
Isopropylbenzene	**4.30 J**	**12.0**	**675**	**42.0**	**5.40 J**	1,800,000	HH
m,p-Xylenes	**350**	**100**	**5,850**	**310**	**61.0**	440,000	HH
Methyl tert-butyl ether	1.40 U	2.10 U	81.0 U	4.40 U	4.50 U	47,000	HH
n-Propylbenzene	**21.0**	**56.0**	**2,300**	**170**	**16.0 J**	4,400,000	HH
o-Xylene	**120**	**52.0**	**2,800**	**150**	**28.0**	3,100,000	HH
Styrene	1.30 U	1.90 U	73.0 U	4.00 U	4.10 U	4,400,000	HH
Tetrachloroethene (PCE)	**610**	**800**	**34,000**	**1,800**	**730**	2,100	HH
Tetrahydrofuran	1.10 U	1.60 U	61.0 U	3.30 U	3.40 U	--	--
Toluene	**300**	**1,200**	**47,500**	**2,400**	**2,000**	22,000,000	HH
trans-1,2-Dichloroethene	**4.00 J**	2.60 U	100 U	5.60 U	5.80 U	260,000	HH
trans-1,3-Dichloropropene	0.960 U	1.40 U	55.0 U	3.00 U	3.10 U	3,100	HH
Trichloroethene (TCE)	**360**	**33.0**	**610 J**	**27.0**	**41.0**	140	HH
Trichlorofluoromethane	**2.20 J**	1.70 U	68.0 U	3.70 U	3.80 U	3,100,000	HH
Vinyl Chloride	0.930 U	1.40 U	53.0 U	2.90 U	3.00 U	2,800	HH

Notes:
µg/m3 = microgram per cubic meter
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-4a
2009 Pistol Range AOPC Soil and Lagoon Sediment Analytical Results
Metals, General Chemistry Parameters, and Grain Size

Sample Description	Pistol Range Soil Composite Samples		Lagoon Sediment Grab Samples					Selected SLV (0-3 ft bgs)	SLV Source (0-3 ft bgs)
Site ID	PR-EUA	PR-EUB	PR-04	PR-05	PR-06*	PR-07	PR-08		
Sample ID	090319-PR-EUA-So	090319-PR-EUB-So	090111-PR4-0-1SD	090111-PR5-0-1SD	090111-PR6-0-1SD	090111-PR7-0-1SD	090111-PR8-0-1SD		
Sample Date	3/19/2009	3/19/2009	1/11/2009	1/11/2009	1/11/2009	1/11/2009	1/11/2009		
Sample Depth (Feet bgs or brb)	0.0-0.17	0.0-0.17	0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0	0.0-1.0		
Metals (mg/kg dry)									
Copper	-	-	**24.4**	**23.9**	**25.4**	**21.7**	**20.2**	55.6	UPL
Lead	-	-	**27.5**	**30.2**	**33.0**	**24.9**	**20.0**	35.0	Eco
Nickel	-	-	**14.5**	**15.0**	**15.4**	**13.2**	**12.9**	21.2	UPL
Zinc	-	-	**160 J**	**171 J**	**174 J**	**146 J**	**128 J**	123	Eco
General Chemistry Parameters and Grain Size (%)									
Carbon, Total Organic	-	-	**9,500**	**10,700**	**19,600 J**	**14,500**	**12,200**	--	--
Solids, Total	**800,000**	**756,000**	**688,000**	**690,000**	**678,000**	**637,000**	**609,000**	--	--
Gravel (>2.00 mm)	**32.7**	**20.3**	**2.22**	**0.320**	**0.0750**	**1.76**	**0.270**	--	--
Sand, Very Coarse (1.00 - 2.00 mm)	**10.2**	**4.62**	**0.940**	**0.390**	**0.125**	**0.490**	**0.300**	--	--
Sand, Coarse (0.50 - 1.00 mm)	**7.66**	**6.67**	**2.01**	**3.73**	**3.26**	**2.65**	**0.760**	--	--
Sand, Medium (0.25 - 0.50 mm)	**7.51**	**9.14**	**3.57**	**4.37**	**3.18**	**3.91**	**1.70**	--	--
Sand, Fine (0.125 - 0.25 mm)	**7.80**	**10.6**	**5.54**	**5.49**	**4.52**	**5.93**	**5.27**	--	--
Sand, Very Fine (0.0625 - 0.125 mm)	**6.08**	**8.73**	**18.1**	**10.9**	**12.5**	**16.4**	**24.9**	--	--
Silt (0.039 - 0.0625 mm)	**18.7**	**25.3**	**60.3**	**62.0**	**63.2**	**58.1**	**60.2**	--	--
Clay (<0.039 mm)	**6.40**	**10.1**	**7.96**	**9.83**	**10.1**	**4.35**	**2.73**	--	--

Notes:

mg/kg = milligram per kilogram
bgs = below ground surface
brb = below river bottom
Eco = Ecological
MDL = method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit
- = Not Analyzed

-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-4b
2009 Pistol Range AOPC Groundwater Analytical Results
Metals and General Chemistry Parameters

Site ID	PR-01	PR-02D*	Selected Discharge to Surface Water / Bioaccumulation SLV	SLV Source	Selected Direct Contact SLV	SLV Source
Sample ID	090202-PR-PR1-16-20GW	090202-PR-PR2D-9-19GW				
Sample Date	2/2/2009	2/2/2009				
Sample Depth (Feet bgs)	16.0-20.0	9.0-19.0				
Total Metals (mg/L)						
Copper	**0.0548 J**	**0.0400 J**	1.30	HH	1.50	HH
Lead	**0.0105**	**0.0125 J**	--	--	0.0150	HH
Nickel	**0.0501**	**0.0215 J**	0.610	HH	0.730	HH
Zinc	**0.149**	**0.0781 J**	7.40	HH	11.0	HH
Dissolved Metals (mg/L)						
Copper	**0.000800 J**	**0.000665 J**	0.00900	Eco	0.00900	Eco
Lead	0.0000200 U	0.0000200 U	0.00250	Eco	0.00250	Eco
Nickel	**0.003900 J**	0.00200 U	0.0520	Eco	0.0520	Eco
Zinc	**0.004100 J**	**0.00210 J**	0.120	Eco	0.120	Eco
General Chemistry Parameters (mg/L)						
Solids, Total Dissolved	**307**	**219**	--	--	--	--
Total Suspended Solids	5.00 U	**3,170 J**	--	--	--	--

Notes:

mg/L = milligram per liter
bgs = below ground surface
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-5a
2009 Reference Area Soil Analytical Results
Metals, Polycyclic Aromatic Hydrodarbons, Total Solids, and Grain Size

Site ID	R-01	R-02	R-03	R-04	R-05	R-06	R-07*	R-08	R-09	R-10	R-11	R-12	R-13	R-14
Sample ID	090128-R-R1-0-0.5So	090128-R-R2-0-0.5So	090128-R-R3-0-0.5So	090128-R-R4-0-0.5So	090128-R-R5-0-0.5So	090128-R-R6-0-0.5So	090128-R-R7-0-0.5So	090128-R-R8-0-0.5So	090128-R-R9-0-0.5So	090128-R-R10-0-0.5So	090128-R-R11-0-0.5So	090128-R-R12-0-0.5So	090128-R-R13-0-0.5So	090128-R-R14-0-0.5So
Sample Date	1/28/2009	1/28/2009	1/28/2009	1/28/2009	1/28/2009	1/28/2009	1/28/2009	1/28/2009	1/28/2009	1/28/2009	1/28/2009	1/28/2009	1/28/2009	1/28/2009
Sample Depth (Feet bgs)	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5
Metals (mg/kg)														
Aluminum	**21,300**	**20,300**	**19,000**	**21,800**	**26,200**	**15,900**	**22,200**	**23,700**	**16,500**	**19,900**	**26,300**	**23,200**	**28,900**	**33,200**
Antimony	**0.120 J**	**0.130 J**	**0.130 J**	**0.170 J**	**0.130 J**	**0.130 J**	**0.140 J**	**0.110 J**	**0.180 J**	**0.120 J**	**0.130 J**	**0.0700 J**	**0.110 J**	**0.120 J**
Arsenic	**3.55**	**3.27**	**2.04**	**4.70**	**2.64**	**5.18**	**1.78**	**4.55**	**4.20**	**3.38**	**3.16**	**1.09**	**2.03**	**1.80**
Barium	**81.5**	**118**	**95.2**	**131**	**182**	**91.6**	**75.0**	**137**	**88.7**	**98.8**	**122**	**57.4**	**145**	**112**
Beryllium	**0.433**	**0.513**	**0.579**	**0.504**	**0.625**	**0.393**	**0.564**	**0.459**	**0.387**	**0.448**	**0.492**	**0.319**	**0.531**	**0.629**
Cadmium	**0.164**	**0.156**	**0.162**	**0.150**	**0.175**	**0.0990**	**0.340**	**0.194**	**0.105**	**0.143**	**0.155**	**0.102**	**0.132**	**0.191**
Calcium	**7,160**	**9,120**	**8,720**	**6,110**	**9,060**	**4,310**	**8,500**	**7,700**	**4,760**	**6,810**	**6,970**	**3,510**	**7,590**	**8,880**
Chromium	**21.8**	**21.4**	**23.4**	**21.7**	**27.3**	**19.2**	**18.8**	**23.1**	**17.8**	**18.8**	**23.5**	**15.5**	**26.4**	**25.9**
Cobalt	**19.1**	**18.3**	**19.2**	**15.8**	**17.9**	**12.8**	**19.9**	**17.5**	**11.4**	**17.0**	**17.2**	**9.66**	**16.6**	**18.5**
Copper	**37.6**	**45.1**	**35.3**	**33.0**	**49.4**	**22.8**	**43.7**	**30.3**	**29.4**	**35.5**	**44.4**	**32.0**	**49.2**	**58.2**
Iron	**29,900**	**26,400**	**29,100**	**28,500**	**32,000**	**24,500**	**33,500**	**30,300**	**27,300**	**29,200**	**33,000**	**22,900**	**34,000**	**37,000**
Lead	**14.9**	**17.4**	**26.5**	**19.5**	**19.2**	**15.4**	**24.0**	**22.3**	**15.4**	**13.1**	**14.6**	**12.5**	**19.0**	**14.6**
Magnesium	**10,500**	**6,770**	**5,160**	**6,700**	**8,300**	**4,770**	**3,710**	**8,740**	**5,100**	**8,450**	**10,100**	**9,080**	**10,100**	**12,000**
Manganese	**589**	**685**	**526**	**733**	**716**	**498**	**920**	**622**	**423**	**627**	**650**	**415**	**580**	**799**
Mercury	**0.0430**	**0.0550**	**0.0680**	**0.0590**	**0.0510**	**0.0430**	**0.0620**	**0.0490**	**0.0440**	**0.0480**	**0.0340 J**	**0.0470**	**0.0480**	**0.0400**
Nickel	**18.2**	**19.0**	**20.8**	**15.7**	**23.8**	**11.5**	**17.6**	**19.6**	**12.9**	**20.9**	**19.5**	**12.8**	**22.9**	**26.1**
Potassium	**923**	**1,490**	**1,920**	**1,200**	**1,930**	**1,020**	**1,240**	**1,740**	**1,070**	**1,290**	**1,370**	**572 J**	**1,200**	**1,710**
Selenium	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.500 U	0.400 U	0.400 U	0.500 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Silver	**0.0870**	**0.0950**	**0.0530 J**	**0.0660**	**0.0450 J**	**0.187**	**0.0515 J**	**0.0270 J**	0.0230 U	**0.0440 J**	**0.0370 J**	0.0220 U	**0.0330 J**	**0.0370 J**
Sodium	**324**	**131**	**123**	**139**	**131**	**136**	**69.6 J**	**279**	**222**	**142**	**186**	**124**	**276**	**115**
Thallium	**0.153**	**0.203**	0.100 U	**0.143**	0.103 U	**0.147**	**0.154**	**0.190**	**0.142**	0.0980 U	**0.128**	0.0420 U	0.0930 U	0.0810 U
Vanadium	**79.4**	**69.6**	**83.7**	**82.0**	**91.8**	**69.4**	**75.1**	**81.0**	**75.2**	**73.7**	**90.2**	**43.0**	**89.1**	**99.3**
Zinc	**54.7 J**	**68.5 J**	**66.7 J**	**58.8 J**	**65.9 J**	**45.6 J**	**59.9 J**	**66.7 J**	**50.6 J**	**52.9 J**	**56.0 J**	**55.1 J**	**56.5 J**	**65.8 J**
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)														
Acenaphthene	**1.90 J**	**1.20 J**	**3.40 J**	1.00 U	**1.60 J**	**1.20 J**	**1.75 J**	**1.80 J**	1.00 U	**1.50 J**	1.00 U	**1.40 J**	1.00 U	1.00 U
Acenaphthylene	1.40 U	1.40 U	**1.60 J**	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Anthracene	**2.70 J**	**2.00 J**	**4.90 J**	**1.50 J**	**1.90 J**	**2.00 J**	**3.30 J**	**2.20 J**	**3.50 J**	**2.10 J**	1.40 U	**1.70 J**	**1.80 J**	1.40 U
Fluorene	1.70 U	1.70 U	**3.20 J**	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
Naphthalene	1.30 U	**1.60 J**	**2.20 J**	1.30 U	1.30 U	**1.30 J**	**1.80 J**	**1.60 J**	1.30 U	**1.70 J**	1.30 U	1.30 U	1.30 U	1.30 U
Phenanthrene	**16.0**	**16.0**	**34.0**	**9.10 J**	**13.0**	**9.60 J**	**16.0**	**18.0**	**13.0**	**11.0**	**5.50 J**	**9.60 J**	**8.30 J**	**5.80 J**
Total LPAHs (KM, capped; NDs at MDL)	**24.5 J**	**23.3 J**	**49.3 J**	**14.7 J**	**20.5 J**	**16.6 J**	**25.7 J**	**26.5 J**	**20.5 J**	**19.2 J**	**12.3 J**	**16.6 J**	**14.1 J**	**12.6 J**
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)														
Benzo(a)anthracene	**16.0**	**17.0**	**34.0**	**9.90 J**	**17.0**	**11.0**	**20.5**	**16.0**	**13.0**	**10.0**	**7.40 J**	**12.0**	**8.00 J**	**4.60 J**
Benzo(a)pyrene	**20.0**	**22.0**	**45.0**	**11.0**	**20.0**	**16.0**	**26.5**	**22.0**	**15.0**	**15.0**	**8.30 J**	**16.0**	**10.0**	**7.70 J**
Benzo(b)fluoranthene	**27.0**	**29.0**	**55.0**	**16.0**	**27.0**	**19.0**	**33.0**	**27.0**	**22.0**	**18.0**	**13.0**	**20.0**	**12.0**	**9.10 J**
Benzo(g,h,i)perylene	**14.0**	**16.0**	**32.0**	**11.0**	**16.0**	**13.0**	**20.5**	**15.0**	**11.0**	**12.0**	**8.20 J**	**9.70 J**	**7.30 J**	**5.80 J**
Benzo(k)fluoranthene	**8.30 J**	**9.70 J**	**19.0**	**6.70 J**	**9.50 J**	**7.70 J**	**10.8 J**	**8.70 J**	**7.10 J**	**6.90 J**	**3.40 J**	**7.20 J**	**4.30 J**	**2.70 J**
Chrysene	**20.0**	**23.0**	**45.0**	**13.0**	**22.0**	**17.0**	**25.5**	**21.0**	**15.0**	**15.0**	**8.90 J**	**15.0**	**10.0**	**6.40 J**
Dibenz(a,h)anthracene	**4.30 J**	2.20 U	**6.90 J**	2.20 U	**3.60 J**	**3.70 J**	**4.90 J**	**4.40 J**	2.20 U	2.20 U	**2.70 J**	2.20 U	2.20 U	2.20 U
Fluoranthene	**31.0**	**33.0**	**66.0**	**19.0**	**31.0**	**22.0**	**39.5**	**31.0**	**26.0**	**21.0**	**13.0**	**21.0**	**15.0**	**10.0**
Indeno(1,2,3-cd)pyrene	**17.0**	**16.0**	**34.0**	**12.0**	**16.0**	**12.0**	**22.0**	**17.0**	**12.0**	**5.20 J**	**8.20 J**	**12.0**	**7.60 J**	**6.00 J**
Pyrene	**29.0**	**31.0**	**64.0**	**18.0**	**30.0**	**23.0**	**39.0**	**31.0**	**26.0**	**21.0**	**15.0**	**24.0**	**14.0**	**10.0**
Total HPAHs (KM, capped; NDs at MDL)	**187 J**	**199 J**	**401 J**	**119 J**	**192 J**	**144 J**	**242 J**	**193 J**	**149 J**	**126 J**	**88.1 J**	**139 J**	**90.4 J**	**64.5 J**
General Chemistry Parameters (mg/kg) and Grain Size (%)														
Carbon, Total Organic	**37,200**	**39,800**	**53,100**	**50,800**	**55,300**	**37,300**	**38,800**	**44,600**	**29,900**	**42,700**	**33,100**	**77,800**	**39,200**	**46,100**
Solids, Total	**671,000**	**653,000**	**661,000**	**661,000**	**633,000**	**720,000**	**834,000**	**679,000**	**717,000**	**698,000**	**676,000**	**664,000**	**653,000**	**655,000**
Gravel (>2.00 mm)	**22.8**	**31.6**	**27.4**	**32.9**	**22.6**	**29.4**	**33.4**	**32.7**	**13.1**	**32.3**	**13.5**	**15.4**	**26.2**	**25.9**
Sand, Very Coarse (1.00 - 2.00 mm)	**14.2**	**14.9**	**20.5**	**15.3**	**14.2**	**7.50**	**20.9**	**15.2**	**9.29**	**15.3**	**9.05**	**16.2**	**14.2**	**12.8**
Sand, Coarse (0.50 - 1.00 mm)	**11.1**	**7.95**	**14.2**	**9.55**	**9.50**	**8.30**	**11.7**	**10.7**	**8.28**	**11.1**	**7.22**	**14.5**	**8.83**	**10.8**
Sand, Medium (0.25 - 0.50 mm)	**8.07**	**5.26**	**7.95**	**7.39**	**7.07**	**12.2**	**5.94**	**6.92**	**11.3**	**8.48**	**8.98**	**10.4**	**5.67**	**6.62**
Sand, Fine (0.125 - 0.25 mm)	**7.05**	**5.49**	**5.37**	**6.25**	**5.81**	**8.51**	**4.08**	**5.55**	**13.6**	**6.98**	**9.89**	**8.86**	**5.64**	**5.26**
Sand, Very Fine (0.0625 - 0.125 mm)	**5.38**	**4.79**	**3.31**	**4.31**	**4.26**	**5.81**	**3.26**	**4.19**	**11.3**	**4.48**	**7.26**	**8.76**	**5.18**	**4.00**
Silt (0.039 - 0.0625 mm)	**22.4**	**21.9**	**14.9**	**18.1**	**25.8**	**21.4**	**9.76**	**18.4**	**24.9**	**17.0**	**29.0**	**23.2**	**22.5**	**23.7**
Clay (<0.039 mm)	**10.9**	**11.0**	**6.37**	**8.03**	**11.9**	**12.1**	**10.2**	**8.09**	**8.98**	**7.08**	**17.7**	**5.84**	**14.1**	**13.2**

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
bgs = below ground surface
MDL = method detection limit
ND = non detect
- = Not Analyzed
-- = SLV for analyte not available

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table 6-5b
2008-2009 Reference Area Quarterly Groundwater Analytical Results
Metals, Petroleum Hydrocarbons, Butyltins, Volatile Organic Compounds, Semivolatile Organic Compounds, and General Chemistry Parameters

Site ID	MW-10*	MW-10*	MW-10*	MW-10*
Sample ID	080415MW10GW	080716MW10GW	081022MW10GW	090113MW10GW
Sample Date	4/15/2008	7/16/2008	10/22/2008	1/13/2009
Sample Depth (Feet btc)	40	52	50	52
Total Metals (µg/L)				
Aluminum	**211**	**48.4**	**174**	**6.45**
Antimony	**0.0800**	**0.0300 J**	**0.0250 J**	**0.0710 J**
Arsenic	1.32 U	**1.23**	**1.68**	**1.60**
Barium	**26.5**	**20.8**	**18.5**	**17.3**
Beryllium	**0.0100 J**	0.0200 U	0.0200 U	0.0200 U
Cadmium	0.0570 U	0.0200 U	**0.0490**	0.00500 U
Calcium	**29,350**	**30,950**	**29,150**	**30,550 J**
Chromium	0.570 U	**0.210**	**3.98 J**	**0.145 J**
Cobalt	**0.295**	**0.170**	**0.323**	**0.0710**
Copper	0.670 U	**0.260**	**1.12**	**0.125**
Iron	434 U	**116**	**451 J**	37.0 U
Lead	0.363 U	**0.130**	**0.248**	**0.102**
Magnesium	**8,315**	**8,140**	**7,620**	**7,710**
Manganese	**245**	**259**	**208**	**204**
Mercury	0.0300 U	0.0500 U	0.0500 U	0.0500 U
Nickel	0.500 U	**1.07**	**6.62**	**0.570**
Potassium	**4,800**	**4,955**	**4,705**	**4,945**
Selenium	0.400 U	0.500 U	0.400 U	0.400 U
Silver	0.0660 U	0.00900 U	0.00900 U	**0.00900 J**
Sodium	**5,625**	**5,255**	**4,940**	**5,015**
Thallium	0.00800 U	0.00500 U	0.00500 U	0.00500 U
Vanadium	**1.55 J**	**0.175 J**	**0.320**	0.0700 U
Zinc	**6.15 J**	**1.75**	**8.28 J**	**2.25 J**
Dissolved Metals (µg/L)				
Aluminum	**2.25**	**2.35**	**2.60**	**2.00 J**
Antimony	**0.0500 J**	0.0100 U	**0.0140 J**	0.0100 U
Arsenic	**1.32**	**1.13**	**1.47**	**1.55**
Barium	**22.9**	**19.5**	**17.4**	**15.3**
Beryllium	0.00800 U	0.0200 U	0.0200 U	0.0200 U
Cadmium	**0.0310**	0.0200 U	**0.0425**	0.00500 U
Calcium	**29,800**	**30,100**	**28,950**	**29,800 J**
Chromium	**0.180 J**	**0.120 J**	**0.290**	**0.0600 J**
Cobalt	0.0790 U	**0.109**	**0.139**	**0.0630**
Copper	0.300 U	**0.0950 J**	**0.315**	**0.0800 J**
Iron	**10.7 J**	**9.80 J**	**24.9**	20.0 U
Lead	**0.0220 J**	0.0300 U	0.0680 U	**0.00600 J**
Magnesium	**8,085**	**7,840**	**7,360**	**7,475**
Manganese	**218**	**228**	**197**	**187**
Mercury	0.0300 U	0.0500 U	0.0500 U	0.0500 U
Nickel	0.500 U	**1.07**	**1.41**	**0.660**
Potassium	**4,880**	**4,710**	**4,710**	**4,840**
Selenium	0.400 U	0.500 U	0.400 U	0.400 U
Silver	**0.117**	0.00900 U	0.00900 U	0.00900 U
Sodium	5,440 U	**4,975**	**4,825**	**4,875**
Thallium	0.00800 U	0.00500 U	0.00500 U	0.00500 U
Vanadium	0.800 U	0.0700 U	0.0700 U	0.0700 U
Zinc	10.0 U	**1.30**	**3.15**	**1.15 J**
Total Petroleum Hydrocarbons (µg/L)				
Diesel Range Organics	14.0 U	-	-	-
Residual Range Organics	24.0 U	-	-	-
Gasoline Range Organics	13.0 U	-	-	-
Total Butyltins (µg/L)				
Dibutyltin	0.00810 U	-	-	-
Monobutyltin	**0.0345 J**	-	-	-
Total Volatile Organic Compounds (µg/L)				
Chloroform	0.0820 U	-	-	-
Tetrachloroethene (PCE)	0.0970 U	-	-	-
Vinyl Chloride	0.0440 U	-	-	-
Total Semivolatile Organic Compounds (µg/L)				
1,4-Dichlorobenzene	0.0330 U	-	-	-
4-Nitrophenol	0.320 U	-	-	-
Phenol	0.0700 U	-	-	-
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/L)				
Phenanthrene	0.0250 U	-	-	-
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/L)				
Benzo(b)fluoranthene	**0.0250 J**	-	-	-
Benzo(k)fluoranthene	0.0270 U	-	-	-
General Chemistry Parameters (mg/L)				
Dissolved Bromide	0.0100 U	-	-	-
Dissolved Chloride	**1.80**	-	-	-
Dissolved Fluoride	**0.0270 J**	-	-	-
Dissolved Sulfate	**6.80**	-	-	-
Dissolved Ammonia	**0.0200 J**	-	-	-
Dissolved Nitrate+Nitrite	**0.0240 J**	-	-	-
Total Organic Carbon	**0.600**	-	-	-
Dissolved Organic Carbon	**0.500**	-	-	-
Dissolved Bicarbonate as CaCO3	**118**	-	-	-
Dissolved Carbonate as CaCO3	1.00 U	-	-	-

Notes:
µg/L = microgram per liter
mg/L = milligram per liter
btc = below top of well casing
MDL = method detection limit
- = Not Analyzed
-- = SLV for analyte not available
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-6a
Forebay Area Smallmouth Bass and Largescale Sucker Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, Metals, and Semivolatile Organic Compounds
(Page 1 of 3)

Area	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	Selected SLV	SLV Source
Site ID	1	2	3	4	5	6	7		
Sample ID	060605100SB	060605101SB	060605200SB	060605201SB	060605202SB	060605203SB	060605204SB		
Sample Date	6/5/2006	6/5/2006	6/5/2006	6/5/2006	6/5/2006	6/5/2006	6/5/2006		
Percent Lipids	2	3.2	1.7	1.7	1.4	2.8	3.6		
Tissue Type	Smallmouth Bass	Smallmouth Bass	Smallmouth Bass	Smallmouth Bass	Smallmouth Bass	Smallmouth Bass	Smallmouth Bass		
PCB Aroclors (µg/kg wet)									
Aroclor 1016	2.40 UJ	24.0 UJ	2.40 UJ	2.40 UJ	2.40 UJ	2.50 UJ	2.40 UJ	0.570	HH
Aroclor 1221	2.60 UJ	26.0 UJ	2.60 UJ	2.60 UJ	2.60 UJ	2.70 UJ	2.60 UJ	0.570	HH
Aroclor 1232	2.30 UJ	23.0 UJ	2.30 UJ	2.30 UJ	2.30 UJ	2.40 UJ	2.30 UJ	0.570	HH
Aroclor 1242	2.20 UJ	22.0 UJ	2.20 UJ	2.20 UJ	2.20 UJ	2.30 UJ	2.20 UJ	0.570	HH
Aroclor 1248	0.510 UJ	5.10 UJ	68.0 UJ	0.510 UJ	5.00 UJ	12.0 UJ	11.0 UJ	0.570	HH
Aroclor 1254	28.0 UJ	**1,300 J**	240 UJ	67.0 UJ	**51.0 J**	95.0 UJ	38.0 UJ	0.570	HH
Aroclor 1260	24.0 UJ	19.0 UJ	150 UJ	48.0 UJ	25.0 UJ	73.0 UJ	37.0 UJ	0.570	HH
Aroclor 1262	2.50 UJ	25.0 UJ	98.0 UJ	21.0 UJ	8.40 UJ	21.0 UJ	12.0 UJ	0.570	HH
Aroclor 1268	2.00 UJ	20.0 UJ	2.00 UJ	2.00 UJ	2.00 UJ	2.10 UJ	2.00 UJ	0.570	HH
Total PCBs as Aroclors (NDs at MDL) [1]	30.2 UJ	**1,322 J**	242 UJ	69.2 UJ	**53.2 J**	97.3 UJ	40.2 UJ	0.570	HH
PCB Congeners (µg/kg wet)									
PCB 77	**0.0241 J**	**0.165 J**	**0.205 J**	**0.0448 J**	**0.0315 J**	**0.0703 J**	**0.0624 J**	0.0760	HH
PCB 81	**0.00143 J**	**0.0195 J**	**0.0238 J**	**0.00384 J**	**0.00205 J**	**0.00422 J**	**0.00324 J**	0.0250	HH
PCB 105	**0.966 J**	**50.4 J**	**45.5 J**	**2.98 J**	**1.23 J**	**3.54 J**	**1.54 J**	0.250	HH
PCB 114	**0.0926 J**	**3.20 J**	**4.04 J**	**0.281 J**	**0.106 J**	**0.337 J**	**0.120 J**	0.250	HH
PCB 118	**3.31 J**	**138 J**	**132 J**	**8.31 J**	**3.61 J**	**10.8 J**	**3.75 J**	0.250	HH
PCB 123	**0.0557 J**	**1.60 J**	**2.45 J**	**0.118 J**	**0.0633 J**	**0.217 J**	**0.0695 J**	0.250	HH
PCB 126	**0.00505 J**	**0.0553 J**	**0.0755 J**	**0.00974 J**	**0.00807 J**	**0.0159 J**	**0.0111 J**	0.0000760	HH
PCB 156	**0.654 C J**	**26.6 C J**	**31.4 C J**	**2.22 C J**	**0.735 C J**	**2.89 C J**	**0.846 C J**	0.250	HH
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**							0.250	HH
PCB 167	**0.226 J**	**6.50 J**	**9.65 J**	**0.428 J**	**0.239 J**	**0.961 J**	**0.250 J**	0.250	HH
PCB 169	0.00152 UJ	0.00728 UJ	0.00449 UJ	0.00275 UJ	0.00129 UJ	0.00503 UJ	0.00260 UJ	0.000250	HH
PCB 189	**0.0216 J**	**0.482 J**	**0.531 J**	**0.0759 J**	**0.0250 J**	**0.113 J**	**0.0390 J**	0.250	HH
Total PCBs as Congeners (KM, capped)	**33.7 J**	**1440 J**	**879 J**	**96.7 J**	**42.0 J**	**137 J**	**59.3 J**	0.570	HH
Metals (mg/kg wet)									
Aluminum	**9.89**	**6.66**	**11.3**	**4.00**	**4.75**	**1.26 J**	**1.37**	-	-
Antimony	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	-	-
Arsenic	**0.170**	**0.700**	**0.170**	**0.390**	**0.330**	**0.350**	**0.560**	0.000760	HH
Barium	**2.32**	**1.30**	**1.95**	**2.43**	**1.73**	**0.870**	**0.960**	-	-
Beryllium	**0.000600**	**0.000500**	0.000500 U	0.000500 U	0.000500 U	**0.000700**	**0.000600**	-	-
Cadmium	**0.0110**	**0.00700**	**0.0230**	**0.00600**	**0.00600**	**0.0110**	**0.00700**	0.150	Eco
Chromium	**0.190**	0.130 U	**0.270**	0.120 U	**0.290**	0.140 U	0.130 U	-	-
Cobalt	**0.0553**	**0.0516**	**0.0582**	**0.0452**	**0.0537**	**0.0594**	**0.0447**	-	-
Copper	**1.06**	**0.583**	**1.42**	**0.721**	**0.767**	**0.482**	**0.439**	-	-
Lead	**0.0200**	**0.0180**	**0.00800**	**0.0170**	**0.00900**	**0.00500 J**	**0.00500**	0.120	Eco
Mercury	**0.0710 J**	**0.342 J**	**0.131 J**	**0.187 J**	**0.0760 J**	**0.283 J**	**0.315 J**	0.0490	HH
Methyl Mercury	-	-	-	-	-	-	-	-	-
Nickel	**0.309**	**0.271**	**0.399**	**0.225**	**0.357**	**0.304 J**	**0.213**	-	-
Thallium	**0.0148**	**0.0198**	**0.0112**	**0.0146**	**0.0154**	**0.00930**	**0.0177**	-	-
Vanadium	**0.0700**	**0.0400**	**0.0600**	**0.0400**	**0.0400**	**0.0300**	**0.0300**	-	-
Zinc	**13.9**	**12.9**	**15.1**	**15.1**	**14.8**	**18.0**	**12.2**	-	-
Semivolatile Organic Compounds (µg/kg wet)									
Bis(2-ethylhexyl) Phthalate	66.0 UJ	**140 J**	**100 J**	66.0 UJ	66.0 UJ	**130 J**	**89.0 J**	81.9	HH
Butyl Benzyl Phthalate	7.30 UJ	7.30 UJ	7.30 UJ	7.30 UJ	7.30 UJ	7.30 UJ	7.30 UJ	310	Eco
Carbazole	9.10 UJ	9.10 UJ	9.10 UJ	9.10 UJ	9.10 UJ	9.10 UJ	9.10 UJ	-	-
Di-n-butyl Phthalate	16.0 UJ	48.0 UJ	16.0 UJ	16.0 UJ	36.0 UJ	16.0 UJ	16.0 UJ	626	Eco
Di-n-octyl Phthalate	11.0 UJ	11.0 UJ	11.0 UJ	11.0 UJ	11.0 UJ	11.0 UJ	11.0 UJ	626	Eco
p-cresol (4-Methylphenol)	7.70 UJ	7.70 UJ	7.70 UJ	7.70 UJ	7.70 UJ	7.70 UJ	7.70 UJ	-	-
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg wet)									
Acenaphthene	**0.200 J**	0.110 UJ	**0.300 J**	**0.160 J**	**0.200 J**	**0.790 J**	0.110 UJ	15,000	HH
Anthracene	**0.110 J**	**0.230 J**	**0.320 J**	**0.0780 J**	**0.180 J**	**2.20 J**	**0.320 J**	15,000	HH
Fluorene	**0.410 J**	0.150 UJ	**0.670 J**	**0.300 J**	**0.370 J**	**1.30 J**	**0.970**	15,000	HH
Phenanthrene	**0.610**	**1.30**	**0.870 J**	**0.540**	**0.790**	**2.20 J**	**1.60**	15,000	HH
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg wet)									
Benzo(a)anthracene	0.0660 UJ	0.0660 UJ	**1.20 J**	0.0660 UJ	0.0660 UJ	**5.00 J**	0.0660 UJ	1.57	HH
Benzo(a)pyrene	0.0810 UJ	0.0810 UJ	**0.770 J**	0.0810 UJ	0.0810 UJ	**3.50 J**	0.0810 UJ	0.157	HH
Benzo(b)fluoranthene	**0.110 J**	0.0700 UJ	0.140 UJ	0.0700 UJ	0.0700 UJ	**2.20 J**	0.0700 UJ	1.57	HH
Benzo(g,h,i)perylene	0.0730 UJ	0.0730 UJ	**0.420 J**	0.0730 UJ	0.0730 UJ	**1.50 J**	0.0730 UJ	15.7	HH
Benzo(k)fluoranthene	**0.110 J**	0.0560 UJ	**1.40 J**	0.0560 UJ	0.0560 UJ	**3.80 J**	0.0560 UJ	15.7	HH
Chrysene	0.0760 UJ	0.0760 UJ	**0.530 J**	0.0760 UJ	0.0760 UJ	**2.30 J**	0.0760 UJ	157	HH
Dibenz(a,h)anthracene	0.0590 UJ	0.0590 UJ	**0.410 J**	0.0590 UJ	0.0590 UJ	**1.90 J**	0.0590 UJ	0.157	HH
Fluoranthene	0.0900 UJ	0.0900 UJ	**0.840 J**	0.0900 UJ	0.0900 UJ	**3.30 J**	0.0900 UJ	19,000	Eco
Indeno(1,2,3-cd)pyrene	0.0640 UJ	0.0640 UJ	**0.700 J**	0.0640 UJ	0.0640 UJ	**2.80 J**	0.0640 UJ	1.57	HH
Pyrene	**0.140 J**	0.0980 UJ	**0.590 J**	0.0980 UJ	**0.110 J**	0.490 UJ	0.0980 UJ	1,000	Eco

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
RDL = reported detection limit
- = Not Analyzed
-- = SLV for analyte not available
ND = Non Detect

[1] Only Aroclors 1242 and 1254 were included in summing bass Total PCBs as Aroclors because all other aroclors were undected in Forebay smallmouth bass samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
bold = analyte detected above MDL/RDL.
= The reported concentration exceeds the selected SLV

Table 6-6a
Forebay Area Smallmouth Bass and Largescale Sucker Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, Metals, and Semivolatile Organic Compounds
(Page 2 of 3)

Area	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	Selected SLV	SLV Source
Site ID	12	13	14	8	9	10	11		
Sample ID	060606102SB	060606103SB	060606104SB	060605205SB	060605207SB	060605208SB	060605209SB		
Sample Date	6/6/2006	6/6/2006	6/6/2006	6/5/2006	6/5/2006	6/5/2006	6/5/2006		
Percent Lipids	2.1	2.4	2.4	2.8	2.5	2.4	4.1		
Tissue Type	Smallmouth Bass	Smallmouth Bass	Smallmouth Bass	Smallmouth Bass	Smallmouth Bass	Smallmouth Bass	Smallmouth Bass		
PCB Aroclors (µg/kg wet)									
Aroclor 1016	2.40 UJ	120 UJ	6.00 UJ	24.0 UJ	4.70 UJ	2.40 UJ	240 UJ	0.570	HH
Aroclor 1221	2.60 UJ	20.0 UJ	32.0 UJ	26.0 UJ	25.0 UJ	2.60 UJ	260 UJ	0.570	HH
Aroclor 1232	2.30 UJ	8.90 UJ	12.0 UJ	23.0 UJ	14.0 UJ	2.30 UJ	230 UJ	0.570	HH
Aroclor 1242	2.20 UJ	3.80 UJ	10.0 UJ	22.0 UJ	4.40 UJ	2.20 UJ	220 UJ	0.570	HH
Aroclor 1248	33.0 UJ	61.0 UJ	4.20 UJ	5.10 UJ	9.10 UJ	12.0 UJ	51.0 UJ	0.570	HH
Aroclor 1254	85.0 UJ	420 UJ	11.0 UJ	**1,300 J**	25.0 UJ	96.0 UJ	**14,000 J**	0.570	HH
Aroclor 1260	300 UJ	200 UJ	26.0 UJ	19.0 UJ	67.0 UJ	78.0 UJ	190 UJ	0.570	HH
Aroclor 1262	110 UJ	160 UJ	16.0 UJ	25.0 UJ	24.0 UJ	50.0 UJ	250 UJ	0.570	HH
Aroclor 1268	5.90 UJ	9.90 UJ	5.00 UJ	20.0 UJ	6.40 UJ	16.0 UJ	200 UJ	0.570	HH
Total PCBs as Aroclors (NDs at MDL) [1]	87.2 UJ	424 UJ	21.0 UJ	**1,322 J**	29.4 UJ	98.2 UJ	**14,220 J**	0.570	HH
PCB Congeners (µg/kg wet)									
PCB 77	**0.102 J**	**0.186 J**	**0.0217 J**	**0.214 J**	**0.0367 J**	**0.0772 J**	**3.53 J**	0.0760	HH
PCB 81	**0.00807 J**	**0.0117 J**	**0.00121 J**	**0.0191 J**	**0.00233 J**	**0.00576 J**	0.0231 UJ	0.0250	HH
PCB 105	**11.2 J**	**57.7 J**	**0.717 J**	**66.3 J**	**2.09 J**	**3.91 J**	**766 J**	0.250	HH
PCB 114	**1.68 J**	**4.47 J**	**0.0594 J**	**4.87 J**	**0.173 J**	**0.332 J**	**65.7 J**	0.250	HH
PCB 118	**52.4 J**	**164 J**	**2.42 J**	**199 J**	**6.43 J**	**10.3 J**	**2,180 J**	0.250	HH
PCB 123	**0.948 J**	**2.07 J**	**0.0323 J**	**1.94 J**	**0.0810 J**	**0.136 J**	**35.6 J**	0.250	HH
PCB 126	**0.0262 J**	**0.0453 J**	**0.00642 J**	**0.0857 J**	**0.00890 J**	**0.0143 J**	**1.26 J**	0.0000760	HH
PCB 156	**12.8 C J**	**38.6 C J**	**0.541 C J**	**44.6 C J**	**1.36 C J**	**2.39 C J**	**403 C J**	0.250	HH
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**							0.250	HH
PCB 167	**3.65 J**	**7.99 J**	**0.161 J**	**9.35 J**	**0.311 J**	**0.574 J**	**116 J**	0.250	HH
PCB 169	0.00824 UJ	0.0145 UJ	0.00347 UJ	0.0112 UJ	0.00327 UJ	0.00508 UJ	0.127 UJ	0.000250	HH
PCB 189	**0.324 J**	**0.661 J**	**0.0311 J**	**0.841 J**	**0.0491 J**	**0.0910 J**	**9.30 J**	0.250	HH
Total PCBs as Congeners (KM, capped)	**325 J**	**1306 J**	**32.1 J**	**1733 J**	**69.6 J**	**149 J**	**19303 J**	0.570	HH
Metals (mg/kg wet)									
Aluminum	**15.5**	**2.49**	**1.06**	**4.72**	**2.25**	**1.33**	**3.90**	-	-
Antimony	0.00500 U	0.00600 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00600 U	-	-
Arsenic	**0.310**	**0.350**	**0.560**	**0.520**	**0.450**	**0.490**	**0.600**	0.000760	HH
Barium	**1.34**	**1.28**	**0.720**	**1.13**	**0.860**	**1.57**	**1.96**	-	-
Beryllium	0.000500 U	0.000600 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000600 U	-	-
Cadmium	**0.00700**	**0.00400**	**0.0190**	**0.0130**	**0.00900**	**0.00400**	**0.00600**	0.150	Eco
Chromium	**0.200**	0.150 U	0.120 U	0.130 U	0.120 U	0.140 U	0.140 U	-	-
Cobalt	**0.0567**	**0.0758**	**0.0469**	**0.0588**	**0.0441**	**0.0575**	**0.0650**	-	-
Copper	**0.688**	**0.540**	**0.560**	**0.769**	**0.586**	**0.434**	**0.588**	-	-
Lead	**0.00900**	**0.00500**	**0.0100**	**0.00500**	**0.0100**	**0.00400**	**0.00500**	0.120	Eco
Mercury	**0.131 J**	**0.512 J**	**0.383 J**	**0.367 J**	**0.305 J**	**0.372 J**	**0.251 J**	0.0490	HH
Methyl Mercury	-	-	-	-	-	-	-	-	-
Nickel	**0.282**	**0.392**	**0.273**	**0.324**	**0.213**	**0.292**	**0.338**	-	-
Thallium	**0.0188**	**0.0128**	**0.0153**	**0.0157**	**0.0162**	**0.0133**	**0.0153**	-	-
Vanadium	**0.130**	**0.0700**	**0.0600**	**0.0500**	**0.0400**	**0.0500**	**0.0500**	-	-
Zinc	**12.3**	**15.5**	**16.1**	**14.8**	**13.3**	**13.3**	**14.4**	-	-
Semivolatile Organic Compounds (µg/kg wet)									
Bis(2-ethylhexyl) Phthalate	66.0 UJ	66.0 UJ	**120 J**	**190**	66.0 UJ	66.0 UJ	66.0 UJ	81.9	HH
Butyl Benzyl Phthalate	7.30 UJ	7.30 UJ	**33.0 J**	7.30 UJ	7.30 UJ	7.30 UJ	7.30 UJ	310	Eco
Carbazole	9.10 UJ	9.10 UJ	9.10 UJ	9.10 UJ	9.10 UJ	9.10 UJ	9.10 UJ	-	-
Di-n-butyl Phthalate	16.0 UJ	71.0 UJ	**150 J**	16.0 UJ	16.0 UJ	37.0 UJ	16.0 UJ	626	Eco
Di-n-octyl Phthalate	11.0 UJ	11.0 UJ	11.0 UJ	11.0 UJ	11.0 UJ	11.0 UJ	11.0 UJ	626	Eco
p-cresol (4-Methylphenol)	7.70 UJ	7.70 UJ	7.70 UJ	7.70 UJ	7.70 UJ	7.70 UJ	7.70 UJ	-	-
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg wet)									
Acenaphthene	**0.260 J**	**0.280 J**	**0.230 J**	**0.260 J**	0.110 UJ	**0.390 J**	**0.350 J**	15,000	HH
Anthracene	**0.220 J**	**0.320 J**	0.0650 UJ	**0.160 J**	**0.170 J**	**0.450 J**	**0.450 J**	15,000	HH
Fluorene	**0.460 J**	**0.670**	**0.550**	**0.650**	**0.400 J**	**0.850 J**	0.150 UJ	15,000	HH
Phenanthrene	**1.00**	**1.90**	**0.760**	**1.10**	**0.980**	**2.00 J**	**2.10**	15,000	HH
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg wet)									
Benzo(a)anthracene	0.0660 UJ	0.0660 UJ	0.0660 UJ	0.0660 UJ	0.0660 UJ	**1.00 J**	0.0660 UJ	1.57	HH
Benzo(a)pyrene	0.0810 UJ	0.0810 UJ	0.0810 UJ	0.0810 UJ	0.0810 UJ	**0.720 J**	0.0810 UJ	0.157	HH
Benzo(b)fluoranthene	0.0700 UJ	0.0700 UJ	0.0700 UJ	0.0700 UJ	0.0700 UJ	0.140 UJ	0.0700 UJ	1.57	HH
Benzo(g,h,i)perylene	0.0730 UJ	0.0730 UJ	0.0730 UJ	0.0730 UJ	0.0730 UJ	0.150 UJ	0.0730 UJ	15.7	HH
Benzo(k)fluoranthene	0.0560 UJ	0.0560 UJ	0.0560 UJ	0.0560 UJ	0.0560 UJ	**1.40 J**	0.0560 UJ	15.7	HH
Chrysene	0.0760 UJ	0.0760 UJ	0.0760 UJ	0.0760 UJ	0.0760 UJ	**0.500 J**	0.0760 UJ	157	HH
Dibenz(a,h)anthracene	0.0590 UJ	0.0590 UJ	0.0590 UJ	0.0590 UJ	0.0590 UJ	0.120 UJ	0.0590 UJ	0.157	HH
Fluoranthene	0.0900 UJ	**0.730**	0.0900 UJ	0.0900 UJ	0.0900 UJ	**1.30 J**	**0.490**	19,000	Eco
Indeno(1,2,3-cd)pyrene	0.0640 UJ	0.0640 UJ	0.0640 UJ	0.0640 UJ	0.0640 UJ	**0.720 J**	0.0640 UJ	1.57	HH
Pyrene	0.0980 UJ	0.0980 UJ	0.0980 UJ	0.0980 UJ	0.0980 UJ	**0.720 J**	0.0980 UJ	1,000	Eco

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
RDL = reported detection limit
- = Not Analyzed
-- = SLV for analyte not available
ND = Non Detect

[1] Only Aroclors 1242 and 1254 were included in summing bass Total PCBs as Aroclors because all other aroclors were undected in Forebay smallmouth bass samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
bold = analyte detected above MDL/RDL.
= The reported concentration exceeds the selected SLV

Table 6-6a
Forebay Area Smallmouth Bass and Largescale Sucker Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, Metals, and Semivolatile Organic Compounds
(Page 3 of 3)

Area	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	Selected SLV	SLV Source
Site ID	15	16	17	18	19	SUCKER		
Sample ID	060606210SB	060815402SB	060815403SB	060815405SB	060815406SB	070505LS		
Sample Date	6/6/2006	8/15/2006	8/15/2006	8/15/2006	8/15/2006	5/5/2007		
Percent Lipids	1.7	5.3	5.5	4.7	6.6	10.4		
Tissue Type	Smallmouth Bass	Smallmouth Bass	Smallmouth Bass	Smallmouth Bass	Smallmouth Bass	Largescale Sucker		
PCB Aroclors (µg/kg wet)								
Aroclor 1016	10.0 UJ	2.40 UJ	120 UJ	24.0 UJ	9.90 UJ	2.40 U	0.570	HH
Aroclor 1221	20.0 UJ	2.60 UJ	130 UJ	26.0 UJ	2.60 UJ	2.60 U	0.570	HH
Aroclor 1232	10.0 UJ	2.30 UJ	120 UJ	23.0 UJ	9.90 UJ	2.30 U	0.570	HH
Aroclor 1242	8.50 UJ	**260 J**	110 UJ	22.0 UJ	4.70 UJ	2.20 U	0.570	HH
Aroclor 1248	10.0 UJ	0.510 UJ	26.0 UJ	5.10 UJ	5.70 UJ	0.510 U	0.570	HH
Aroclor 1254	16.0 UJ	**330 J**	**18,000 J**	**1,400 J**	13.0 UJ	**160**	0.570	HH
Aroclor 1260	31.0 UJ	1.90 UJ	95.0 UJ	19.0 UJ	37.0 UJ	1.90 U	0.570	HH
Aroclor 1262	10.0 UJ	2.50 UJ	130 UJ	25.0 UJ	12.0 UJ	-	0.570	HH
Aroclor 1268	2.50 UJ	2.00 UJ	100 UJ	20.0 UJ	3.50 UJ	2.00 U	0.570	HH
Total PCBs as Aroclors (NDs at MDL) [1]	24.5 UJ	**590 J**	**18,110 J**	**1,422 J**	17.7 UJ	**160**	0.570	HH
PCB Congeners (µg/kg wet)								
PCB 77	**0.0236 J**	**0.334 J**	**8.95 J**	**0.577 J**	**0.0568 J**	**0.110**	0.0760	HH
PCB 81	**0.00130 J**	**0.0198 J**	**1.19 J**	0.00615 UJ	**0.00358 J**	**0.00902**	0.0250	HH
PCB 105	**1.60 J**	**30.1 J**	**1,300 J**	**109 J**	**0.738 J**	**4.35**	0.250	HH
PCB 114	**0.122 J**	**2.33 J**	**89.8 J**	**11.2 J**	**0.115 J**	**0.289**	0.250	HH
PCB 118	**4.97 J**	**92.1 J**	**3,270 J**	**312 J**	**3.82 J**	**10.3**	0.250	HH
PCB 123	**0.0574 J**	**1.20 J**	**55.3 J**	**6.10 J**	**0.0750 J**	**0.179**	0.250	HH
PCB 126	**0.00755 J**	0.0480 UJ	**3.03 J**	**0.125 J**	**0.0123 J**	**0.0191**	0.0000760	HH
PCB 156	**1.20 C J**	**16.9 C J**	**486 C J**	**83.0 C J**	**0.791 C J**	**1.77 C**	0.250	HH
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**						0.250	HH
PCB 167	**0.270 J**	**4.71 J**	**140 J**	**21.0 J**	**0.356 J**	**0.565**	0.250	HH
PCB 169	0.00318 UJ	0.0151 UJ	0.607 UJ	0.0280 UJ	0.00439 UJ	**0.0111**	0.000250	HH
PCB 189	**0.0407 J**	**0.402 J**	**10.1 J**	**1.88 J**	**0.0419 J**	**0.0780**	0.250	HH
Total PCBs as Congeners (KM, capped)	**54.8 J**	**1193 J**	**26505 J**	**2482 J**	**40.7 J**	**201 J**	0.570	HH
Metals (mg/kg wet)								
Aluminum	**10.3**	**4.24**	**1.33**	**1.97**	**7.54**	**19.7 J**	-	-
Antimony	0.00500 U	0.00600 U	0.00600 U	0.00600 U	0.00500 U	0.00600 U	-	-
Arsenic	**0.540**	**0.190**	**0.290**	**0.450**	**0.410**	**0.350**	0.000760	HH
Barium	**0.980**	**2.64**	**1.74**	**1.24**	**1.66**	**1.92**	-	-
Beryllium	0.000500 U	0.000600 U	0.000600 U	0.000600 U	0.000500 U	0.000600 U	-	-
Cadmium	**0.0280**	**0.00500**	**0.00700**	**0.00500**	**0.00700**	**0.0420**	0.150	Eco
Chromium	**0.860**	0.150 U	0.150 U	0.150 U	0.130 U	**0.480**	-	-
Cobalt	**0.0519**	**0.0625**	**0.0566**	**0.0508**	**0.0457**	**0.0775**	-	-
Copper	**0.619**	**0.905**	**0.591**	**0.364**	**0.505**	**0.728**	-	-
Lead	**0.0360**	**0.0120**	**0.00800**	**0.0160**	**0.00500**	**0.0440**	0.120	Eco
Mercury	**0.203 J**	**0.301 J**	**0.165 J**	**0.498 J**	**0.147 J**	**0.139 J**	0.0490	HH
Methyl Mercury	-	-	-	-	-	-	-	-
Nickel	**0.333**	**0.327**	**0.295**	**0.281**	**0.228**	**0.343**	-	-
Thallium	**0.0215**	**0.00790**	**0.0136**	**0.0145**	**0.0142**	**0.00560**	-	-
Vanadium	**0.0500**	**0.0800**	**0.0700**	**0.0800**	**0.0900**	**0.170**	-	-
Zinc	**13.4**	**15.8**	**14.9**	**13.2**	**11.4**	**17.5**	-	-
Semivolatile Organic Compounds (µg/kg wet)								
Bis(2-ethylhexyl) Phthalate	**1,600**	5,000 U	66.0 UJ	66.0 UJ	66.0 UJ	66.0 U	81.9	HH
Butyl Benzyl Phthalate	7.30 UJ	**440**	7.30 UJ	7.30 UJ	7.30 UJ	7.30 U	310	Eco
Carbazole	9.10 UJ	9.10 UJ	9.10 UJ	9.10 UJ	9.10 UJ	9.10 U	-	-
Di-n-butyl Phthalate	16.0 UJ	16.0 UJ	16.0 UJ	16.0 UJ	16.0 UJ	16.0 U	626	Eco
Di-n-octyl Phthalate	11.0 UJ	11.0 UJ	11.0 UJ	11.0 UJ	11.0 UJ	11.0 U	626	Eco
p-cresol (4-Methylphenol)	7.70 UJ	7.70 UJ	7.70 UJ	7.70 UJ	7.70 UJ	7.70 U	-	-
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg wet)								
Acenaphthene	**0.300 J**	**1.40 J**	**1.50 J**	**1.50 J**	**1.60 J**	1.10 U	15,000	HH
Anthracene	**0.400 J**	**17.0 J**	**5.70 J**	**6.00 J**	**6.60 J**	**4.50 J**	15,000	HH
Fluorene	**0.520 J**	**4.70 J**	**2.40 J**	**3.70 J**	**3.30 J**	1.50 U	15,000	HH
Phenanthrene	**1.00 J**	**5.70 J**	**4.60 J**	**5.20 J**	**5.40 J**	**3.80 J**	15,000	HH
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg wet)								
Benzo(a)anthracene	**1.20 J**	**17.0 J**	0.660 UJ	0.660 UJ	0.660 UJ	0.660 U	1.57	HH
Benzo(a)pyrene	**0.740 J**	**6.80 J**	**7.10 J**	**6.40 J**	**7.40 J**	**6.30**	0.157	HH
Benzo(b)fluoranthene	0.140 UJ	**4.20 J**	**3.90 J**	**4.40 J**	**4.40 J**	0.700 U	1.57	HH
Benzo(g,h,i)perylene	0.150 UJ	**2.60 J**	**2.80 J**	**3.10 J**	**3.30 J**	**2.00 J**	15.7	HH
Benzo(k)fluoranthene	**1.60 J**	**7.70 J**	**7.20 J**	**7.20 J**	**7.60 J**	**11.0**	15.7	HH
Chrysene	**0.620 J**	**10.0 J**	**4.50 J**	**4.60 J**	**4.90 J**	0.760 U	157	HH
Dibenz(a,h)anthracene	0.120 UJ	**3.40 J**	**3.40 J**	**3.40 J**	**4.10 J**	**3.70 J**	0.157	HH
Fluoranthene	**0.960 J**	**5.90 J**	**5.90 J**	**6.30 J**	**6.50 J**	**5.90**	19,000	Eco
Indeno(1,2,3-cd)pyrene	0.130 UJ	**5.60 J**	**5.30 J**	**6.00 J**	**6.10 J**	**6.50**	1.57	HH
Pyrene	**0.670 J**	**7.20 J**	**4.90 J**	**5.00 J**	**5.30 J**	**7.40**	1,000	Eco

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
RDL = reported detection limit
- = Not Analyzed
-- = SLV for analyte not available
ND = Non Detect

[1] Only Aroclors 1242 and 1254 were included in summing bass Total PCBs as Aroclors because all other aroclors were undected in Forebay smallmouth bass
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
bold = analyte detected above MDL/RDL.
= The reported concentration exceeds the selected SLV

Table 6-6b
Reference Area Smallmouth Bass Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, Metals, and Semivolatile Organic Compounds
(Page 1 of 3)

Area	Reference	Reference	Reference	Reference	Reference	Reference
Site ID	20	21	22	23	24	25
Sample ID	071027R01SB	071027R02SB	071027R03SB	071027R04SB	071027R05SB	071027R06SB
Sample Date	10/27/2007	10/27/2007	10/27/2007	10/27/2007	10/27/2007	10/27/2007
Percent Lipids	6.2	7	7.2	8.5	7.9	5.9
PCB Aroclors (µg/kg wet)						
Aroclor 1016	3.50 U	4.70 U	3.40 U	2.40 U	9.90 U	2.40 U
Aroclor 1221	4.70 U	2.60 U	2.60 U	2.60 U	20.0 U	2.60 U
Aroclor 1232	6.10 U	5.90 U	3.90 U	2.30 U	9.90 U	2.30 U
Aroclor 1242	4.50 UJ	6.30 UJ	2.20 UJ	2.20 UJ	**14.0 J**	**9.50 J**
Aroclor 1248	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U
Aroclor 1254	**59.0 J**	**32.0 J**	**51.0 J**	9.60 UJ	**110 J**	**58.0 J**
Aroclor 1260	1.90 U	1.90 U	1.90 U	14.0 U	1.90 U	1.90 U
Aroclor 1262	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U
Aroclor 1268	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Total PCBs as Aroclors (NDs at MDL) [1]	**63.5 J**	**38.3 J**	**53.2 J**	11.8 UJ	**124 J**	**67.5 J**
PCB Congeners (µg/kg wet)						
PCB 77	**0.0470**	**0.0358**	**0.0435**	**0.0254**	**0.195**	**0.0381**
PCB 81	0.00681 U	0.00574 U	0.00504 U	0.00547 U	0.0205 U	0.00944 U
PCB 105	**1.15**	**1.07**	**1.11**	**0.498**	**4.06**	**1.16**
PCB 114	**0.0770**	**0.0723**	**0.0652**	**0.0292**	**0.300**	0.0856 EMPC
PCB 118	**3.30**	**3.05**	**3.01**	**1.33**	**10.2**	**3.14**
PCB 123	**0.0554**	**0.0477**	0.0435 EMPC	**0.0248**	**0.184**	0.0470 EMPC
PCB 126	0.0112 U	0.0116 EMPC	0.0122 U	**0.00561**	0.0301 U	0.0157 U
PCB 156	**0.468 C**	**0.402 C**	**0.378 C**	**0.194 C**	**1.39 C**	**0.490 C**
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**					
PCB 167	**0.193**	**0.169**	**0.157**	**0.0843**	**0.536**	**0.181**
PCB 169	0.00551 U	0.00890 U	0.00536 U	0.00227 U	0.0109 U	0.00489 U
PCB 189	0.0165 EMPC	**0.0174**	0.0168 EMPC	**0.0133**	**0.0677**	0.0195 EMPC
Total PCBs as Congeners (KM, capped)	**47.9 J**	**41.8 J**	**44.7 J**	**22.1 J**	**164 J**	**44.4 J**
Metals (mg/kg wet)						
Aluminum	**0.802**	**1.55**	**1.13**	**0.330 J**	**0.663**	**2.11**
Antimony	0.00500 U	0.00500 U	0.00600 U	0.00600 U	0.00500 U	0.00500 U
Arsenic	**0.311**	**0.406**	**0.434**	**0.159**	**0.761**	**0.277 J**
Barium	**1.06**	**0.837**	**1.20**	**0.430**	**0.456**	**0.748**
Beryllium	0.000500 U	0.000500 U	0.000600 U	0.000600 U	0.000500 U	0.000500 U
Cadmium	**0.00800 J**	**0.00500 J**	**0.00600 J**	**0.00500 J**	**0.00400 J**	**0.00600 J**
Chromium	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Cobalt	0.0255 U	0.0309 U	0.0278 U	0.0248 U	0.0255 U	0.0267 U
Copper	**0.571**	**0.344**	**0.457**	**0.336**	**0.327**	**0.419**
Lead	0.0130 U	0.0140 U	0.0140 U	0.0150 U	0.0140 U	0.0130 U
Mercury	**0.106 J**	**0.217 J**	**0.0904 J**	**0.130 J**	**0.144 J**	**0.0548 J**
Methyl Mercury	-	-	-	-	-	-
Nickel	**0.324**	**0.399**	**0.328**	0.298 U	0.306 U	0.277 U
Thallium	**0.0159**	**0.0201**	**0.0205**	**0.0120**	**0.0189**	**0.0165**
Vanadium	**0.0400 J**	**0.0400 J**	**0.0400 J**	**0.0500 J**	**0.0300 J**	**0.0300 J**
Zinc	**13.4**	**13.9**	**12.9**	**13.4**	**11.2**	**14.6 J**
Semivolatile Organic Compounds (µg/kg wet)						
Bis(2-ethylhexyl) Phthalate	66.0 U	2,500 U	2,400 U	1,800 U	1,800 U	1,500 U
Butyl Benzyl Phthalate	7.30 U	7.30 U	7.30 U	7.30 U	7.30 U	7.30 U
Carbazole	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U
Di-n-butyl Phthalate	220 U	16.0 U	150 U	280 U	150 U	230 U
Di-n-octyl Phthalate	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U
p-cresol (4-Methylphenol)	7.70 U	7.70 U	7.70 U	7.70 U	7.70 U	7.70 UJ
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg wet)						
Acenaphthene	**0.700 J**	**0.770**	**1.00 J**	**0.560 J**	**0.820**	**0.570 J**
Anthracene	**0.0900 J**	0.650 U	**0.380 J**	0.0650 UJ	0.650 U	0.310 U
Fluorene	**1.00 J**	1.80 U	**1.40 J**	**1.50 J**	2.00 U	**0.890 J**
Phenanthrene	**2.50 J**	**3.70 J**	**3.00**	**3.10 J**	**4.60 J**	**2.20**
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg wet)						
Benzo(a)anthracene	0.0660 UJ	0.660 U	0.260 U	0.0660 UJ	0.660 U	0.140 U
Benzo(a)pyrene	0.0810 UJ	0.810 U	0.320 U	0.0810 UJ	0.810 U	0.170 U
Benzo(b)fluoranthene	0.0700 UJ	0.700 U	0.280 U	0.0700 UJ	0.700 U	0.140 U
Benzo(g,h,i)perylene	0.0730 UJ	0.730 U	0.290 U	0.0730 UJ	0.730 U	0.150 U
Benzo(k)fluoranthene	0.0560 UJ	0.560 U	0.220 U	0.0560 UJ	0.560 U	0.120 U
Chrysene	0.0760 UJ	0.760 U	0.300 U	0.0760 UJ	0.760 U	0.160 U
Dibenz(a,h)anthracene	0.0590 UJ	0.590 U	0.230 U	0.0590 UJ	0.590 U	0.120 U
Fluoranthene	0.0900 UJ	**1.90 J**	**1.40 J**	0.0900 UJ	**2.50 J**	1.20 U
Indeno(1,2,3-cd)pyrene	0.0640 UJ	0.640 U	0.250 U	0.0640 UJ	0.640 U	0.130 U
Pyrene	0.0980 UJ	0.980 U	**0.420 J**	0.0980 UJ	0.980 U	0.200 U

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
MDL = method detection limit
RDL = reported detection limit
- = Not Analyzed
ND = Non Detect
bold = analyte detected above MDL/RDL.
J = The reported value is an estimate.

[1] Only Aroclor 1242 and 1254 were included in summing bass Total PCBs as Aroclors because all other aroclors were undected in Reference Area smallmouth bass samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.

Table 6-6b
Reference Area Smallmouth Bass Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, Metals, and Semivolatile Organic Compounds

Area	Reference	Reference	Reference	Reference	Reference	Reference	Reference
Site ID	26	27	28	29	30	31	32
Sample ID	071115R07SB	080517R10SB	080517R11SB	080517R12SB	080517R13SB	080517R14SB	080521R15SB
Sample Date	11/15/2007	5/17/2008	5/17/2008	5/17/2008	5/17/2008	5/17/2008	5/21/2008
Percent Lipids	5.4	6.1	4.7	2.5	5.1	3.7	4.2
PCB Aroclors (µg/kg wet)							
Aroclor 1016	3.80 U	2.40 U	7.90 U	4.80 U	2.40 U	6.00 U	3.10 U
Aroclor 1221	3.80 U	2.60 U	18.0 U	2.60 U	2.60 U	20.0 U	2.60 U
Aroclor 1232	3.10 U	2.30 U	10.0 U	5.10 U	2.30 U	9.90 U	10.0 U
Aroclor 1242	2.20 UJ	**5.60 J**	10.0 UJ	2.20 UJ	**2.40 J**	2.20 UJ	2.20 UJ
Aroclor 1248	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U	6.90 U	0.510 U
Aroclor 1254	**27.0 J**	**34.0 J**	**37.0 J**	**29.0 J**	**80.0 J**	17.0 UJ	**47.0 J**
Aroclor 1260	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U	46.0 U	1.90 U
Aroclor 1262	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	21.0 U	2.50 U
Aroclor 1268	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	3.40 U	2.00 U
Total PCBs as Aroclors (NDs at MDL) [1]	**29.2 J**	**39.6 J**	**47.0 J**	**31.2 J**	**82.4 J**	19.2 UJ	**49.2 J**
PCB Congeners (µg/kg wet)							
PCB 77	**0.0301**	**0.0754**	**0.0362**	**0.0436**	**0.0701**	**0.0548**	**0.0493**
PCB 81	0.00253 U	**0.00552**	**0.00256**	**0.00263**	**0.00326**	**0.00263**	**0.00235**
PCB 105	**1.01**	**3.50**	**0.940**	**1.00**	**1.91**	**1.37**	**1.31**
PCB 114	0.0684 EMPC	**0.272**	**0.0599**	**0.0802**	**0.123**	**0.145**	**0.0872**
PCB 118	**3.11**	**11.8**	**2.58**	**3.63**	**4.85**	**6.21**	**3.74**
PCB 123	**0.0531**	**0.148**	**0.0430**	**0.0553**	**0.0811**	**0.104**	**0.0606**
PCB 126	0.0107 U	**0.0259**	**0.00603**	**0.00955**	**0.0126**	**0.0143**	**0.00945**
PCB 156	**0.448 C**	**1.89 C**	**0.290 C**	**0.430 C**	**0.638 C**	**0.882 C**	**0.447 C**
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**						
PCB 167	**0.168**	**0.571**	**0.117**	**0.211**	**0.242**	**0.380**	**0.180**
PCB 169	0.00857 U	0.00812 U	0.00130 U	0.00186 U	0.00279 U	0.00307 U	0.00154 U
PCB 189	0.0232 EMPC	**0.102**	**0.0147**	**0.0217**	**0.0313**	**0.0444**	**0.0197**
Total PCBs as Congeners (KM, capped)	**41.7 J**	**117 J**	**35.8 J**	**39.8 J**	**69.0 J**	**50.2 J**	**43.1 J**
Metals (mg/kg wet)							
Aluminum	**1.55**	**1.52**	**3.86**	**10.1**	**2.44**	**0.970**	**5.41**
Antimony	0.00600 U	**0.0250**	**0.00300 J**	**0.00300 J**	0.00200 U	**0.00300 J**	0.00200 U
Arsenic	**0.270**	**0.640**	**0.240**	**0.420**	**0.290**	**0.430**	**0.230**
Barium	**1.50**	**0.915**	**0.875**	**1.72**	**0.871**	**1.65**	**1.11**
Beryllium	0.000600 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U
Cadmium	**0.00400 J**	**0.143**	**0.130**	**0.111**	**0.140**	**0.125**	**0.111**
Chromium	0.100 U	**7.15**	**0.210 J**	**0.160 J**	**0.0900 J**	**0.0900 J**	**0.0700 J**
Cobalt	0.0361 U	**0.0838**	**0.0576**	**0.0602**	**0.0487**	**0.0551**	**0.0748**
Copper	**0.575**	**0.680**	**0.490**	**0.500**	**0.700**	**0.440**	**0.690**
Lead	0.0140 U	**1.81**	**1.70**	**1.43**	**1.69**	**1.47**	**1.47**
Mercury	**0.0932 J**	**0.333 J**	**0.0630 J**	**0.102 J**	**0.141 J**	**0.233 J**	**0.0600 J**
Methyl Mercury	-	-	-	-	-	-	-
Nickel	**0.408**	**1.48**	**1.38**	**1.34**	**1.18**	**1.31**	**1.29**
Thallium	**0.0149**	**0.0261**	**0.0152**	**0.0149**	**0.0123**	**0.0152**	**0.0118**
Vanadium	**0.0600**	0.00600 U	**0.0510 J**	**0.102**	**0.0480 J**	**0.0710**	**0.0730**
Zinc	**12.9**	**15.1**	**14.8**	**13.1**	**12.8**	**13.0**	**11.5**
Semivolatile Organic Compounds (µg/kg wet)							
Bis(2-ethylhexyl) Phthalate	1,700 U	66.0 U	**150 J**	66.0 U	66.0 U	66.0 U	66.0 U
Butyl Benzyl Phthalate	7.30 U	7.30 U	7.30 U	7.30 U	7.30 U	7.30 U	7.30 U
Carbazole	9.10 U	7.70 U	7.70 U	7.70 U	7.70 U	7.70 U	7.70 U
Di-n-butyl Phthalate	87.0 U	100 U	100 U	100 U	100 U	100 U	100 U
Di-n-octyl Phthalate	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U
p-cresol (4-Methylphenol)	7.70 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg wet)							
Acenaphthene	**1.00 J**	**0.970**	**0.810**	0.110 U	**0.980**	**0.510**	**0.900**
Anthracene	**0.220 J**	0.0650 U	0.0650 U	0.0650 U	0.0650 U	0.0650 U	0.0650 U
Fluorene	**1.30 J**	**1.50**	**1.20**	0.150 U	**1.60**	**0.920**	**1.60**
Phenanthrene	**2.40**	**2.10**	**2.40**	**1.40**	**2.40**	**2.00**	**4.70**
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg wet)							
Benzo(a)anthracene	0.190 U	**0.940**	**0.560**	0.0660 U	0.0660 U	0.0660 U	0.0660 U
Benzo(a)pyrene	0.230 U	0.0810 U	0.0810 U	0.0810 U	0.0810 U	0.0810 U	0.0810 U
Benzo(b)fluoranthene	0.200 U	0.0700 U	0.0700 U	0.0700 U	0.0700 U	0.0700 U	0.0700 U
Benzo(g,h,i)perylene	0.200 U	0.0730 U	0.0730 U	0.0730 U	0.0730 U	0.0730 U	0.0730 U
Benzo(k)fluoranthene	0.160 U	0.0560 U	0.0560 U	0.0560 U	0.0560 U	0.0560 U	0.0560 U
Chrysene	0.210 U	**0.550**	0.0760 U	0.0760 U	0.0760 U	0.0760 U	0.0760 U
Dibenz(a,h)anthracene	0.170 U	0.0590 U	0.0590 U	0.0590 U	0.0590 U	0.0590 U	0.0590 U
Fluoranthene	**0.690 J**	0.0900 U	0.0900 U	0.0900 U	0.0900 U	0.0900 U	**1.40**
Indeno(1,2,3-cd)pyrene	0.180 U	0.0640 U	0.0640 U	0.0640 U	0.0640 U	0.0640 U	0.0640 U
Pyrene	**0.380 J**	0.0980 U	0.0980 U	0.0980 U	0.0980 U	0.0980 U	0.0980 U

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
MDL = method detection limit
RDL = reported detection limit
- = Not Analyzed
ND = Non Detect
bold = analyte detected above MDL/RDL.
J = The reported value is an estimate.

[1] Only Aroclor 1242 and 1254 were included in summing bass Total PCBs as Aroclors because all other aroclors were undected in Reference Area smallmouth bass samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.

Table 6-6b
Reference Area Smallmouth Bass Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, Metals, and Semivolatile Organic Compounds
(Page 3 of 3)

Area	Reference	Reference	Reference	Reference	Reference	Reference
Site ID	33	34	35	36	37	38
Sample ID	080521R16SB	080521R17SB	080521R18SB	080521R19SB	080521R20SB	080521R21SB
Sample Date	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008
Percent Lipids	2.6	4.1	4.2	5.3	4.1	2.8
PCB Aroclors (µg/kg wet)						
Aroclor 1016	5.90 U	5.20 U	4.50 U	5.40 U	7.30 U	4.50 U
Aroclor 1221	6.90 U	5.90 U	7.40 U	20.0 U	12.0 U	3.70 U
Aroclor 1232	5.70 U	3.90 U	4.40 U	5.40 U	10.0 U	11.0 U
Aroclor 1242	2.20 UJ	2.90 UJ	10.0 UJ	2.20 UJ	10.0 UJ	3.80 UJ
Aroclor 1248	33.0 U	0.510 U	0.510 U	0.510 U	0.510 U	0.510 U
Aroclor 1254	130 UJ	**47.0 J**	**46.0 J**	**85.0 J**	**37.0 J**	**58.0 J**
Aroclor 1260	140 U	1.90 U	1.90 U	1.90 U	1.90 U	1.90 U
Aroclor 1262	110 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U
Aroclor 1268	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Total PCBs as Aroclors (NDs at MDL) [1]	132 UJ	**49.9 J**	**56.0 J**	**87.2 J**	**47.0 J**	**58.0 J**
PCB Congeners (µg/kg wet)						
PCB 77	**0.172**	**0.0537**	**0.0597**	**0.0701**	**0.0528**	**0.0497**
PCB 81	**0.0159**	**0.00340**	**0.00406**	**0.00376**	**0.00202**	**0.00311**
PCB 105	**23.4**	**1.32**	**2.00**	**2.09**	**1.44**	**1.68**
PCB 114	**2.91**	**0.0826**	**0.132**	**0.137**	**0.0971**	**0.106**
PCB 118	**98.6**	**3.65**	**5.97**	**5.35**	**4.78**	**4.46**
PCB 123	**1.83**	**0.0648**	**0.0840**	**0.0802**	**0.0761**	**0.0691**
PCB 126	**0.0746**	**0.00901**	**0.0134**	**0.0129**	**0.0107**	**0.00865**
PCB 156	**20.0 C**	**0.420 C**	**0.786 C**	**0.714 C**	**0.557 C**	**0.544 C**
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**					
PCB 167	**6.54**	**0.175**	**0.286**	**0.242**	**0.276**	**0.198**
PCB 169	0.00662 U	0.00216 U	0.00482 U	0.00596 U	0.00356 U	0.00210 U
PCB 189	**0.532**	**0.0209**	**0.0386**	**0.0375**	**0.0295**	**0.0205**
Total PCBs as Congeners (KM, capped)	**499 J**	**44.2 J**	**60.6 J**	**77.9 J**	**52.9 J**	**52.8 J**
Metals (mg/kg wet)						
Aluminum	**1.13**	**3.02**	**0.680**	**4.01**	**3.95**	**2.28**
Antimony	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U
Arsenic	**0.180**	**0.240**	**0.290**	**0.320**	**0.440**	**0.390**
Barium	**1.42**	**1.22**	**0.843**	**0.957**	**1.36**	**1.70**
Beryllium	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U
Cadmium	**0.138**	**0.126**	**0.117**	**0.124**	**0.129**	**0.112**
Chromium	**0.130 J**	**0.0600 J**	**0.0600 J**	**0.0400 J**	**0.0700 J**	**0.0800 J**
Cobalt	**0.0704**	**0.0601**	**0.0552**	**0.0523**	**0.0536**	**0.0574**
Copper	**0.630**	**0.590**	**0.410**	**0.370**	**0.730**	**0.430**
Lead	**1.66**	**1.65**	**1.53**	**1.62**	**1.59**	**1.42**
Mercury	**0.123 J**	**0.0650 J**	**0.178 J**	**0.105 J**	**0.176 J**	**0.0730 J**
Methyl Mercury	-	-	-	-	-	-
Nickel	**1.79**	**1.38**	**1.29**	**1.23**	**1.18**	**1.33**
Thallium	**0.0113**	**0.0139**	**0.0109**	**0.0133**	**0.0218**	**0.0180**
Vanadium	**0.104**	**0.0510 J**	**0.0600**	**0.0800**	**0.0660**	**0.0570**
Zinc	**12.8**	**12.7**	**12.3**	**14.3**	**14.8**	**15.5**
Semivolatile Organic Compounds (µg/kg wet)						
Bis(2-ethylhexyl) Phthalate	66.0 U	66.0 U	66.0 U	66.0 U	**81.0 J**	66.0 U
Butyl Benzyl Phthalate	7.30 U	7.30 U	7.30 U	7.30 U	7.30 U	7.30 U
Carbazole	7.70 U	7.70 U	7.70 U	7.70 U	7.70 U	7.70 U
Di-n-butyl Phthalate	100 U	100 U	100 U	100 U	100 U	100 U
Di-n-octyl Phthalate	**15.0 J**	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U
p-cresol (4-Methylphenol)	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg wet)						
Acenaphthene	**0.540**	**0.870**	**0.990**	**1.30**	**0.800**	**0.540**
Anthracene	0.0650 U	0.0650 U	0.0650 U	0.0650 U	0.0650 U	0.0650 U
Fluorene	**0.940**	**1.40**	**1.70**	**2.10**	**1.50**	**0.990**
Phenanthrene	**3.70**	**3.80**	**4.10**	**5.10**	**2.30**	**3.60**
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg wet)						
Benzo(a)anthracene	0.0660 U	0.0660 U	0.0660 U	0.0660 U	**0.610**	0.0660 U
Benzo(a)pyrene	0.0810 U	0.0810 U	0.0810 U	0.0810 U	0.0810 U	0.0810 U
Benzo(b)fluoranthene	0.0700 U	0.0700 U	0.0700 U	0.0700 U	0.0700 U	0.0700 U
Benzo(g,h,i)perylene	0.0730 U	0.0730 U	0.0730 U	0.0730 U	0.0730 U	0.0730 U
Benzo(k)fluoranthene	0.0560 U	0.0560 U	0.0560 U	0.0560 U	0.0560 U	0.0560 U
Chrysene	0.0760 U	0.0760 U	0.0760 U	0.0760 U	0.0760 U	0.0760 U
Dibenz(a,h)anthracene	0.0590 U	0.0590 U	0.0590 U	0.0590 U	0.0590 U	0.0590 U
Fluoranthene	**1.20**	**1.00**	**1.10**	**1.60**	**0.750**	**0.780**
Indeno(1,2,3-cd)pyrene	0.0640 U	0.0640 U	0.0640 U	0.0640 U	0.0640 U	0.0640 U
Pyrene	0.0980 U	0.0980 U	0.0980 U	0.0980 U	0.0980 U	0.0980 U

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
MDL = method detection limit
RDL = reported detection limit
- = Not Analyzed
ND = Non Detect
bold = analyte detected above MDL/RDL.
J = The reported value is an estimate.

[1] Only Aroclor 1242 and 1254 were included in summing bass Total PCBs as Aroclors because all other aroclors were undected in Reference Area smallmouth bass samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.

Table 6-7a
Pre-Removal Sediment Analytical Results
PCB Aroclors, Metals, Petroleum Hydrocarbons, Semivolatile Organic Compounds, General Chemistry Parameters, and Grain Size

Area	Forebay Pre-Sediment Removal	Forebay Pre-Sediment Removal	Forebay Pre-Sediment Removal	Forebay Pre-Sediment Removal	Forebay Pre-Sediment Removal	Selected SLV	SLV Source
Site ID	A1	A2*	A3	A4	A5		
Sample ID	070926A1 SD	070926A2 SD	070927A3 SD	070925A4 SD	070925A5 SD		
Sample Date	9/26/2007	9/26/2007	9/27/2007	9/25/2007	9/25/2007		
PCB Aroclors (µg/kg dry)							
Aroclor 1016	2.60 U	2.80 U	5.80 U	3.00 U	2.80 U	0.0480	HH
Aroclor 1221	2.60 U	2.80 U	5.80 U	3.00 U	2.80 U	0.0480	HH
Aroclor 1232	2.60 U	2.80 U	5.80 U	3.00 U	2.80 U	0.0480	HH
Aroclor 1242	2.60 U	2.80 U	5.80 U	3.00 U	2.80 U	0.0480	HH
Aroclor 1248	2.60 U	2.80 U	5.80 U	3.00 U	2.80 U	0.0480	HH
Aroclor 1254	**130**	**44.0**	5.80 U	**100**	**13.0**	0.0480	HH
Aroclor 1260	2.60 U	2.80 U	5.80 U	3.00 U	2.80 U	0.0480	HH
Aroclor 1262	2.60 U	2.80 U	5.80 U	3.00 U	2.80 U	0.0480	HH
Aroclor 1268	2.60 U	2.80 U	5.80 U	3.00 U	2.80 U	0.0480	HH
Total PCBs as Aroclors (NDs at MDL) [1]	**133 J**	**46.8 J**	11.6 U	**103 J**	**15.8 J**	0.0480	HH
Metals (mg/kg dry)							
Aluminum	**8,830**	**14,000 J**	**13,400**	**13,100**	**11,900**	38,000	UPL
Antimony	**0.0500**	**0.115**	**0.130 J**	**0.170**	**0.170**	3.00	Eco
Arsenic	**5.68**	**4.24**	**2.00**	**2.33**	**2.36**	6.00	Eco
Barium	**89.8**	**116**	**93.3**	**108**	**149**	315	UPL
Beryllium	**0.353**	**0.358**	**0.314**	**0.331**	**0.280**	0.847	UPL
Cadmium	**0.265**	**0.608 J**	**0.498**	**0.540**	**0.490**	0.674	UPL
Chromium	**14.8**	**22.0**	**15.2**	**16.3**	**16.1**	37.0	Eco
Cobalt	**10.4**	**10.1**	**5.87**	**7.48**	**7.03**	15.2	UPL
Copper	**38.9**	**28.2 J**	**15.3**	**17.8**	**15.9**	55.6	UPL
Lead	**7.27**	**18.4 J**	**9.39**	**9.78**	**9.11**	35.0	Eco
Mercury	**0.0620**	**0.0915 J**	**0.224**	**0.269**	**0.366**	0.214	UPL
Nickel	**15.9**	**15.8**	**9.92**	**12.5**	**11.4**	21.2	UPL
Thallium	**0.112**	**0.171 J**	**0.132**	**0.165**	**0.139**	0.354	UPL
Vanadium	**34.6**	**58.2**	**45.9**	**58.6**	**56.8**	70.6	UPL
Zinc	**46.0**	**93.6**	**87.4**	**102**	**108**	123	Eco
Petroleum Hydrocarbons (mg/kg dry)							
Diesel Range Organics	**35.0**	**11.7 J**	**16.0 J**	**12.0 J**	**8.80 J**	--	--
Residual Range Organics	**77.0 J**	**63.5 J**	**120 J**	**98.0 J**	**70.0 J**	--	--
Semivolatile Organic Compounds (µg/kg dry)							
Bis(2-ethylhexyl) Phthalate	7.00 UJ	**15.5 J**	**16.0 J**	**180 J**	**51.0 J**	750	Eco
Butyl Benzyl Phthalate	3.20 U	3.20 U	**10.0 J**	3.20 U	3.20 U	110	Eco
Carbazole	1.30 U	1.30 U	**2.60 J**	1.30 U	1.30 U	140	Eco
Di-n-butyl Phthalate	**9.10 J**	**11.4 J**	**24.0 J**	**14.0 J**	**12.0 J**	110	Eco
Di-n-octyl Phthalate	1.70 U	1.70 U	2.90 U	1.70 U	1.70 U	110	Eco
p-cresol (4-Methylphenol)	2.90 U	**4,100**	4.70 U	**4.40 J**	2.90 U	--	--
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)							
Acenaphthene	1.40 U	1.40 U	2.40 U	1.40 U	1.40 U	290	Eco
Anthracene	**4.30 J**	14.0 U	2.30 U	1.40 U	1.40 U	57.0	Eco
Fluorene	1.10 U	1.10 U	1.90 U	1.10 U	1.10 U	77.0	Eco
Phenanthrene	**9.10**	**3.25 J**	**2.90 J**	**4.50 J**	**5.00 J**	42.0	Eco
Total LPAHs (KM, capped; NDs at MDL)	**15.9 J**	**19.8 J**	**9.50 J**	**8.40 J**	**8.90 J**	76.0	Eco
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)							
Benzo(a)anthracene	**5.70 J**	**3.05 J**	**3.70 J**	**3.30 J**	**3.50 J**	32.0	Eco
Benzo(a)pyrene	**32.0**	16.0 U	2.60 U	**6.10 J**	**7.40 J**	32.0	Eco
Benzo(b)fluoranthene	**11.0**	**7.05 J**	**4.20 J**	**6.40 J**	**7.40 J**	27.0	Eco
Benzo(g,h,i)perylene	**5.40 J**	**3.70 J**	**5.20 J**	**4.40 J**	**4.70 J**	300	Eco
Benzo(k)fluoranthene	**3.20 J**	**3.40 J**	**3.30 J**	**2.30 J**	**2.50 J**	27.0	Eco
Chrysene	**7.90**	**5.35 J**	**4.10 J**	**4.70 J**	**5.20 J**	57.0	Eco
Dibenz(a,h)anthracene	1.50 U	**2.50 J**	**3.10 J**	1.50 U	1.50 U	33.0	Eco
Fluoranthene	**13.0**	**7.10 J**	**4.40 J**	**7.10 J**	**8.30**	111	Eco
Indeno(1,2,3-cd)pyrene	**6.30 J**	**4.60 J**	**13.0 J**	**4.00 J**	**3.90 J**	17.0	Eco
Pyrene	**13.0**	**6.85 J**	**4.50 J**	**6.60 J**	**7.80 J**	53.0	Eco
Total HPAHs (KM, capped; NDs at MDL)	**99.0 J**	**48.4 J**	**48.1 J**	**46.4 J**	**52.2 J**	193	Eco
Total Polycyclic Aromatic Hydrodarbons (PAHs) (µg/kg dry)							
Total PAHs (KM, capped; NDs at MDL)	**114 J**	**57.2 J**	**56.0 J**	**53.8 J**	**60.1 J**	1600	Eco
General Chemistry Parameters (mg/kg) and Grain Size (%)							
Carbon, Total Organic	**10,200**	**5,500**	**10,900**	**9,200**	**7,300**	--	--
Gravel (>2.00 mm)	**40.0**	**49.4**	**29.3**	**0.350**	**0.0600**	--	--
Sand, Very Coarse (1.00 - 2.00 mm)	**15.8**	**11.9**	**1.46**	**0.590**	**0.610**	--	--
Sand, Coarse (0.50 - 1.00 mm)	**13.5**	**14.4**	**1.19**	**0.940**	**0.830**	--	--
Sand, Medium (0.25 - 0.50 mm)	**7.59**	**9.57**	**1.26**	**2.93**	**2.92**	--	--
Sand, Fine (0.125 - 0.25 mm)	**5.68**	**6.83**	**2.75**	**19.8**	**34.1**	--	--
Sand, Very Fine (0.0625 - 0.125 mm)	**4.24**	**4.12**	**6.11**	**30.6**	**29.4**	--	--
Silt (0.039 - 0.0625 mm)	**12.0**	**10.0**	**34.2**	**33.9**	**26.7**	--	--
Clay (<0.039 mm)	**1.37**	**2.38**	**6.36**	**6.65**	**6.76**	--	--

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
UPL = Reference Area Upper Prediction Limit
- = Not Analyzed
-- = SLV for analyte not available
J = The reported value is an estimate.

[1] Only Aroclor 1248 and 1254 were included in summing sediment Total PCBs as Aroclors because all other aroclors were undected in Forebay sediment samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-7b
Pre-Removal Clam Tissue Analytical Results
PCB Aroclors, Metals, and Semivolatile Organic Compounds

Area	Forebay Pre-Sediment Removal	Forebay Pre-Sediment Removal	Forebay Pre-Sediment Removal	Forebay Pre-Sediment Removal	Selected SLV	SLV Source
Site ID	A1*	A2	A3	A5		
Sample ID	070926A1TC	070926A2TC	070927A3TC	070925A5TC		
Sample Date	9/26/2007	9/26/2007	9/27/2007	9/25/2007		
Percent Lipids	3.4	3.6	3.3	3.5		
PCB Aroclors (µg/kg wet)						
Aroclor 1016	2.40 U	2.40 U	2.40 U	4.70 U	35.0	Eco
Aroclor 1221	2.60 U	2.60 U	2.60 U	5.10 U	35.0	Eco
Aroclor 1232	2.30 U	2.30 U	2.30 U	4.50 U	35.0	Eco
Aroclor 1242	2.20 U	2.20 U	2.20 U	4.40 U	35.0	Eco
Aroclor 1248	0.510 U	0.510 U	0.510 U	1.00 U	35.0	Eco
Aroclor 1254	**355**	**250**	**180**	**120**	35.0	Eco
Aroclor 1260	1.90 U	1.90 U	1.90 U	3.80 U	35.0	Eco
Aroclor 1262	-	-	-	-	35.0	Eco
Aroclor 1268	2.00 U	2.00 U	2.00 U	4.00 U	35.0	Eco
Total PCBs as Aroclors (NDs at MDL) [1]	**355 J**	**250 J**	**180 J**	**120 J**	35.0	Eco
Metals (mg/kg wet)						
Aluminum	**196**	**166**	**184**	**151**	--	--
Antimony	0.00500 U	0.00500 UJ	0.00500 U	0.00500 U	--	--
Arsenic	**2.56**	**3.03**	**3.13**	**2.56**	6.60	Eco
Barium	**2.51**	**2.68**	**2.25**	**2.07**	--	--
Beryllium	**0.00565**	**0.00420**	**0.00550**	**0.00360**	--	--
Cadmium	**0.438**	**0.454**	**0.426**	**0.340**	0.150	Eco
Chromium	**0.700**	**1.20**	**1.20**	**0.600**	--	--
Cobalt	**0.143**	**0.135**	**0.172**	**0.121**	--	--
Copper	**10.8**	**12.3**	**13.5**	**10.1**	--	--
Lead	**0.133**	**0.101**	**0.184**	**0.104**	0.120	Eco
Mercury	**0.0101**	**0.0114 J**	**0.0132**	**0.0114**	0.0740	Eco
Methyl Mercury	-	-	-	-	--	--
Nickel	**0.304**	**0.394**	**0.343**	**0.275**	--	--
Thallium	**0.0192**	**0.0159**	**0.0155**	**0.0162**	--	--
Vanadium	**0.493**	**0.416**	**0.540**	**0.391**	--	--
Zinc	**28.2**	**23.7**	**25.0**	**25.1**	--	--
Semivolatile Organic Compounds (µg/kg wet)						
Bis(2-ethylhexyl) Phthalate	66.0 U	66.0 U	66.0 U	-	1,760	Eco
Butyl Benzyl Phthalate	7.30 U	7.30 U	7.30 U	-	310	Eco
Carbazole	9.10 U	9.10 U	9.10 U	-	--	--
Di-n-butyl Phthalate	**71.0 J**	16.0 U	**59.0 J**	-	626	Eco
Di-n-octyl Phthalate	11.0 U	11.0 U	11.0 U	-	626	Eco
p-cresol (4-Methylphenol)	7.70 U	7.70 U	7.70 U	-	--	--
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg wet)						
Acenaphthene	**0.225 J**	**0.240 J**	**0.250 J**	-	19,000	Eco
Anthracene	**0.945**	**1.10 J**	**1.00**	-	19,000	Eco
Fluorene	**1.30**	**1.30**	**1.30**	-	19,000	Eco
Phenanthrene	**6.60**	**7.00**	**6.70**	-	19,000	Eco
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg wet)						
Benzo(a)anthracene	**1.02**	**0.670**	**0.600**	-	1,000	Eco
Benzo(a)pyrene	0.0810 U	0.0810 U	0.0810 U	-	1,000	Eco
Benzo(b)fluoranthene	0.0700 U	0.0700 U	0.0700 U	-	1,000	Eco
Benzo(g,h,i)perylene	0.0730 U	0.0730 U	0.0730 U	-	1,000	Eco
Benzo(k)fluoranthene	0.0560 U	0.0560 U	0.0560 U	-	1,000	Eco
Chrysene	**2.55**	**2.50**	**2.10**	-	1,000	Eco
Dibenz(a,h)anthracene	0.0590 U	0.0590 U	0.0590 U	-	1,000	Eco
Fluoranthene	**12.5**	**12.0**	**12.0**	-	19,000	Eco
Indeno(1,2,3-cd)pyrene	0.0640 U	0.0640 U	0.0640 U	-	1,000	Eco
Pyrene	**2.80**	**2.80**	**2.70**	-	1,000	Eco

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
- = Not Analyzed
-- = SLV for analyte not available
J = The reported value is an estimate.

[1] Only Aroclor 1254 was included in summing clam Total PCBs as Aroclors because all other aroclors were undected in Forebay clam samples.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL is an estimate.
bold = analyte detected above MDL.
= The reported concentration exceeds the selected SLV
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Table 6-8a
Post-Removal Forebay Area Sediment Analytical Results
PCB Aroclors, PCB Congeners, Metals, Petroleum Hydrocarbons, Semivolatile Organic Compounds, General Chemistry Parameters, and Grain Size
(Page 1 of 3)

Area	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	Selected SLV	SLV Source
Site ID	P04	P05	P06	P07	P08	P09		
Sample ID	08022604SD	08031905SD	08031806SD	08021507SD	08021508SD	08021409SD		
Sample Date	2/26/2008	3/19/2008	3/18/2008	2/15/2008	2/15/2008	2/14/2008		
PCB Aroclors (µg/kg dry)								
Aroclor 1016	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1221	1.70 U	1.70 U	1.70 U	2.20 U	12.0 U	1.70 U	0.0480	HH
Aroclor 1232	1.70 U	1.70 U	1.70 U	7.90 U	7.40 U	1.70 U	0.0480	HH
Aroclor 1242	1.70 U	1.70 U	1.70 U	4.30 U	5.70 U	1.70 U	0.0480	HH
Aroclor 1248	1.70 U	1.70 U	1.70 U	3.50 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1254	**27.0**	1.70 U	**4.60 J**	2.50 U	1.90 U	2.60 U	0.0480	HH
Aroclor 1260	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1262	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1268	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Total PCBs as Aroclors (NDs at MDL) [1]	**28.7 J**	3.40 U	**6.30 J**	6.00 U	3.60 U	4.30 U	0.0480	HH
PCB Dioxin-Like Congeners (µg/kg dry)								
PCB 77	**0.00709**	**0.000209**	**0.000596**	**0.00110**	**0.00121**	**0.00199**	0.00640	HH
PCB 81	0.00340 EMPC	0.0000773 U	0.000106 U	0.000192 EMPC	0.000103 EMPC	0.000140 U	0.00210	HH
PCB 105	**1.08**	**0.00954**	**0.0246**	**0.0475**	**0.0335**	**0.0572**	0.0210	HH
PCB 114	**0.0603**	**0.000631**	**0.00160**	**0.00280**	**0.00185**	**0.00327**	0.0210	HH
PCB 118	**2.65**	**0.0294**	**0.0687**	**0.131**	**0.0926**	**0.145**	0.0260	HH
PCB 123	**0.0363**	0.000610 EMPC	0.00111 EMPC	0.00190 EMPC	**0.00144**	**0.00204**	0.0260	HH
PCB 126	0.00269 U	0.0000725 U	0.000318 U	0.000203 U	0.000177 EMPC	0.000219 EMPC	0.00000620	HH
PCB 156	**0.380 C**	**0.00350 C**	**0.00765 C**	**0.0120 C**	**0.0104 C**	**0.0195 C**	0.0260	HH
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**						0.0260	HH
PCB 167	**0.113**	**0.00152**	**0.00255**	**0.00452**	**0.00430**	**0.00633**	0.0260	HH
PCB 169	0.000879 U	0.0000479 U	0.0000626 U	0.0000923 U	0.0000881 U	0.000126 U	0.0000210	HH
PCB 189	**0.00901**	0.000127 EMPC	0.000241 EMPC	0.000331 EMPC	0.000347 EMPC	**0.000787**	0.140	HH
Total PCBs as Congeners (KM, capped)	**29.7 J**	**0.301 J**	**0.778 J**	**1.69 J**	**1.08 J**	**2.10 J**	0.0480	HH
Metals (mg/kg dry)								
Aluminum	**11,200**	**11,300**	**10,800**	**22,900**	**13,500**	**13,300**	38,000	UPL
Antimony	**0.180 J**	0.0400 UJ	**0.0400 J**	**0.140 J**	**0.150 J**	**0.210 J**	3.00	Eco
Arsenic	**3.24**	**1.40**	**2.22**	**5.39**	**4.24**	**2.73**	6.00	Eco
Barium	**121**	**53.1**	**71.2**	**202**	**147**	**123**	315	UPL
Beryllium	**0.367**	**0.215**	**0.295**	**0.597**	**0.398**	**0.369**	0.847	UPL
Cadmium	**0.509**	0.121 U	**0.175**	**0.429**	**0.430**	**0.694**	0.674	UPL
Chromium	**16.0**	**24.1**	**16.9**	**33.5**	**18.4**	**18.5**	37.0	Eco
Cobalt	**7.60**	**8.83**	**10.8**	**10.3**	**7.86**	**7.36**	15.2	UPL
Copper	**20.3**	**19.9**	**24.4**	**33.1**	**19.9**	**19.1**	55.6	UPL
Lead	**10.5**	**3.30**	**5.03**	**9.03**	**8.53**	**10.1**	35.0	Eco
Mercury	**0.264**	**0.0160**	**0.0230**	**0.102**	**0.117**	**0.174**	0.214	UPL
Nickel	**11.8**	**12.8**	**13.8**	**16.4**	**12.6**	**11.5**	21.2	UPL
Thallium	**0.172**	0.108 U	0.132 U	**0.218**	**0.203**	**0.207**	0.354	UPL
Vanadium	**35.1**	**40.3**	**45.0**	**59.3**	**37.9**	**37.4**	70.6	UPL
Zinc	**86.1**	**57.4**	**58.2**	**83.4**	**81.9**	**88.9**	123	Eco
Petroleum Hydrocarbons (mg/kg dry)								
Diesel Range Organics	**21.0**	**2.60 J**	**4.70 J**	**16.0 J**	**13.0 J**	**22.0**	-	-
Residual Range Organics	**98.0 J**	140 U	150 U	**71.0 J**	**55.0 J**	**120 J**	-	-
Semivolatile Organic Compounds (µg/kg dry)								
Bis(2-ethylhexyl) Phthalate	**340**	200 U	200 U	200 U	200 U	200 U	750	Eco
Butyl Benzyl Phthalate	1.50 U	10.0 U	9.80 U	1.50 U	1.50 U	1.50 U	110	Eco
Carbazole	1.30 U	1.30 U	1.30 U	1.30 U	1.30 U	1.30 U	140	Eco
Di-n-butyl Phthalate	10.0 U	15.0 U	9.80 U	9.90 U	9.80 U	9.90 U	110	Eco
Di-n-octyl Phthalate	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	110	Eco
p-cresol (4-Methylphenol)	2.90 U	2.90 U	2.90 U	**4.80 J**	2.90 U	2.90 U	-	-
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)								
Acenaphthene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	290	Eco
Anthracene	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U	57.0	Eco
Fluorene	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	77.0	Eco
Phenanthrene	**3.30 J**	**1.40 J**	1.30 U	**3.40 J**	1.30 U	**1.80 J**	42.0	Eco
Total LPAHs (KM, capped; NDs at MDL)	**7.40 J**	**5.50 J**	5.40 U	**7.50 J**	5.40 U	**5.90 J**	76.0	Eco
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)								
Benzo(a)anthracene	**3.90 J**	**1.60 J**	1.40 U	1.40 U	1.40 U	**2.70 J**	32.0	Eco
Benzo(a)pyrene	**4.40 J**	**1.70 J**	1.60 U	1.60 U	1.60 U	**4.50 J**	32.0	Eco
Benzo(b)fluoranthene	**6.10 J**	2.50 U	2.50 U	2.50 U	2.50 U	**5.80 J**	27.0	Eco
Benzo(g,h,i)perylene	**3.90 J**	2.30 U	2.30 U	2.30 U	2.30 U	**3.30 J**	300	Eco
Benzo(k)fluoranthene	**2.50 J**	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	27.0	Eco
Chrysene	**7.80 J**	**1.80 J**	**1.50 J**	**1.40 J**	1.40 U	**4.20 J**	57.0	Eco
Dibenz(a,h)anthracene	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	33.0	Eco
Fluoranthene	**5.50 J**	**3.00 J**	2.20 U	**2.50 J**	2.20 U	**3.70 J**	111	Eco
Indeno(1,2,3-cd)pyrene	**3.30 J**	1.90 U	1.90 U	1.90 U	1.90 U	**3.20 J**	17.0	Eco
Pyrene	**5.60 J**	**2.40 J**	**1.80 J**	**2.00 J**	1.30 U	**3.50 J**	53.0	Eco
Total HPAHs (KM, capped; NDs at MDL)	**45.2 J**	**19.2 J**	**15.4 J**	**16.2 J**	19.3 U	**35.3 J**	193	Eco
Total Polycyclic Aromatic Hydrodarbons (PAHs) (µg/kg dry)								
Total PAHs (KM, capped; NDs at MDL)	**50.3 J**	**22.3 J**	**16.6 J**	**20.5 J**	24.7 U	**38.1 J**	1600	Eco
General Chemistry Parameters (mg/kg dry) and Grain Size (%)								
Carbon, Total Organic	**10,100**	**15,400**	**2,400**	**5,100**	**5,600**	**12,500**	-	-
Gravel (>2.00 mm)	**0.290**	**31.0**	**32.5**	**26.7**	**18.2**	**0.640**	-	-
Sand, Very Coarse (1.00 - 2.00 mm)	**0.380**	**17.6**	**8.42**	**8.50**	**4.82**	**0.280**	-	-
Sand, Coarse (0.50 - 1.00 mm)	**0.830**	**23.9**	**16.3**	**9.36**	**4.96**	**0.710**	-	-
Sand, Medium (0.25 - 0.50 mm)	**5.87**	**16.4**	**17.4**	**17.8**	**10.0**	**1.78**	-	-
Sand, Fine (0.125 - 0.25 mm)	**33.3**	**6.58**	**11.6**	**18.9**	**30.8**	**14.1**	-	-
Sand, Very Fine (0.0625 - 0.125 mm)	**23.1**	**2.74**	**5.08**	**6.12**	**11.3**	**30.3**	-	-
Silt (0.039 - 0.0625 mm)	**40.4**	**6.47**	**7.40**	**16.0**	**17.5**	**44.8**	-	-
Clay (<0.039 mm)	**7.59**	**1.66**	**1.22**	**3.67**	**5.60**	**6.99**	-	-

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
Eco = Ecological
HH = Human Health
MDL = method detection limit
ND = Non Detect
SLV = screening level value
RDL = reported detection limit
UPL = Reference Area Upper Prediction Limit
- = Not Analyzed
-- = SLV for analyte not available

[1] Only Aroclors 1248 and 1254 were included in summing sediment Total PCBs as Aroclors because all other aroclors were undected in Forebay sediment samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
bold = analyte detected above MDL/RDL.
= The reported concentration exceeds the selected SLV

Table 6-8a
Post-Removal Forebay Area Sediment Analytical Results
PCB Aroclors, PCB Congeners, Metals, Petroleum Hydrocarbons, Semivolatile Organic Compounds, General Chemistry Parameters, and Grain Size
(Page 2 of 3)

Area	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	Selected SLV	SLV Source
Site ID	P10	P11	P13	P14	P15	P16		
Sample ID	08021410SD	08021411SD	08031713SD	08031814SD	08022115SD	08022116SD		
Sample Date	2/14/2008	2/14/2008	3/17/2008	3/18/2008	2/21/2008	2/21/2008		
PCB Aroclors (µg/kg dry)								
Aroclor 1016	10.0 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1221	21.0 U	20.0 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1232	8.20 U	6.30 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1242	2.20 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1248	1.90 U	4.00 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1254	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1260	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1262	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1268	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Total PCBs as Aroclors (NDs at MDL) [1]	3.60 U	5.70 U	3.40 U	3.40 U	3.40 U	3.40 U	0.0480	HH
PCB Dioxin-Like Congeners (µg/kg dry)								
PCB 77	**0.00198**	**0.00231**	**0.00163**	**0.000417**	**0.00240**	**0.00217**	0.00640	HH
PCB 81	0.000147 EMPC	0.000129 U	0.0000910 U	0.0000694 U	0.000138 U	0.0000754 U	0.00210	HH
PCB 105	**0.0311**	**0.0211**	**0.0124**	**0.00287**	**0.0188**	**0.0168**	0.0210	HH
PCB 114	0.00171 EMPC	**0.00117**	**0.000661**	0.000136 EMPC	0.000965 EMPC	**0.000813**	0.0210	HH
PCB 118	**0.0794**	**0.0528**	**0.0384**	**0.00690**	**0.0516**	**0.0408**	0.0260	HH
PCB 123	**0.00119**	**0.000859**	**0.000661**	0.000107 EMPC	**0.000796**	**0.000833**	0.0260	HH
PCB 126	0.000252 EMPC	0.000212 EMPC	0.000199 EMPC	0.0000662 U	0.000296 EMPC	**0.000238**	0.00000620	HH
PCB 156	**0.0106 C**	**0.00874 C**	**0.00473 C**	**0.00113 C**	**0.00653 C**	**0.00661 C**	0.0260	HH
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**						0.0260	HH
PCB 167	**0.00391**	**0.00349**	**0.00246**	**0.000461**	**0.00337**	**0.00287**	0.0260	HH
PCB 169	0.000123 U	0.000111 U	0.000104 U	0.0000484 U	0.000161 EMPC	0.000132 U	0.0000210	HH
PCB 189	**0.000617**	**0.000589**	**0.000620 EMPC**	0.000814 U	0.000534 EMPC	**0.000452**	0.140	HH
Total PCBs as Congeners (KM, capped)	**1.24 J**	**1.12 J**	**0.684 J**	**0.143 J**	**0.973 J**	**0.836 J**	0.0480	HH
Metals (mg/kg dry)								
Aluminum	**14,200**	**16,500**	**13,500**	**15,600**	**14,600**	**13,100**	38,000	UPL
Antimony	**0.240 J**	**0.210 J**	**0.280 J**	**0.120 J**	**0.200 J**	**0.200 J**	3.00	Eco
Arsenic	**2.87**	**3.08**	**3.06**	**3.49**	**2.93**	**2.74**	6.00	Eco
Barium	**126**	**134**	**118**	**188**	**141**	**120**	315	UPL
Beryllium	**0.437**	**0.468**	**0.385**	**0.251**	**0.425**	**0.417**	0.847	UPL
Cadmium	**0.691**	**0.719**	**0.531**	**0.307**	**0.652**	**0.690**	0.674	UPL
Chromium	**17.6**	**20.9**	**20.0**	**26.8**	**21.6**	**19.2**	37.0	Eco
Cobalt	**7.55**	**8.52**	**9.33**	**15.1**	**10.0**	**8.04**	15.2	UPL
Copper	**24.0**	**23.6**	**19.4**	**18.4**	**21.0**	**20.9**	55.6	UPL
Lead	**10.1**	**11.3**	**10.0**	**7.04**	**10.3**	**11.0**	35.0	Eco
Mercury	**0.306**	**0.244**	**0.00800**	**0.0410**	**0.109**	**0.373**	0.214	UPL
Nickel	**12.2**	**15.1**	**19.0**	**51.5**	**17.8**	**14.2**	21.2	UPL
Thallium	**0.182**	**0.194**	**0.193**	**0.179**	**0.197**	**0.196**	0.354	UPL
Vanadium	**37.1**	**45.2**	**49.5**	**30.9**	**54.7**	**45.2**	70.6	UPL
Zinc	**87.9**	**97.2**	**113**	**59.3**	**104**	**97.9**	123	Eco
Petroleum Hydrocarbons (mg/kg dry)								
Diesel Range Organics	**27.0**	**28.0**	**11.0 J**	**4.60 J**	**24.0**	**26.0**	-	-
Residual Range Organics	**150 J**	**160 J**	180 U	140 U	**170 J**	**150 J**	-	-
Semivolatile Organic Compounds (µg/kg dry)								
Bis(2-ethylhexyl) Phthalate	200 U	200 U	200 U	200 U	**140 J**	**38.0 J**	750	Eco
Butyl Benzyl Phthalate	1.50 U	1.50 U	1.50 U	9.90 U	1.50 U	1.50 U	110	Eco
Carbazole	1.30 U	1.30 U	**1.40 J**	1.30 U	1.30 U	1.30 U	140	Eco
Di-n-butyl Phthalate	9.90 U	10.0 U	19.0 U	14.0 U	10.0 U	9.90 U	110	Eco
Di-n-octyl Phthalate	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	110	Eco
p-cresol (4-Methylphenol)	2.90 U	2.90 U	**6.50 J**	**7.30 J**	2.90 U	**21.0**	-	-
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)								
Acenaphthene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	290	Eco
Anthracene	1.40 U	**2.00 J**	**2.70 J**	1.40 U	1.40 U	**1.90 J**	57.0	Eco
Fluorene	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	77.0	Eco
Phenanthrene	**1.90 J**	**7.10 J**	**5.40 J**	**2.10 J**	**4.60 J**	**5.00 J**	42.0	Eco
Total LPAHs (KM, capped; NDs at MDL)	**6.00 J**	**11.8 J**	**10.8 J**	**6.20 J**	**8.70 J**	**9.60 J**	76.0	Eco
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)								
Benzo(a)anthracene	**2.30 J**	**7.40 J**	**12.0**	**2.20 J**	**2.10 J**	**5.90 J**	32.0	Eco
Benzo(a)pyrene	**3.00 J**	**7.50 J**	**6.10 J**	**2.00 J**	1.60 U	**6.50 J**	32.0	Eco
Benzo(b)fluoranthene	**4.10 J**	**9.10 J**	**6.00 J**	2.50 U	2.50 U	**8.00 J**	27.0	Eco
Benzo(g,h,i)perylene	**2.90 J**	**4.40 J**	**3.50 J**	2.30 U	2.30 U	**5.00 J**	300	Eco
Benzo(k)fluoranthene	2.50 U	**3.30 J**	**4.90 J**	2.50 U	2.50 U	**3.10 J**	27.0	Eco
Chrysene	**4.10 J**	**9.30 J**	**20.0**	**2.40 J**	**3.40 J**	**7.60 J**	57.0	Eco
Dibenz(a,h)anthracene	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	33.0	Eco
Fluoranthene	**3.80 J**	**10.0**	**5.30 J**	**3.20 J**	**4.00 J**	**9.70 J**	111	Eco
Indeno(1,2,3-cd)pyrene	**2.20 J**	**4.70 J**	**3.60 J**	1.90 U	1.90 U	**5.40 J**	17.0	Eco
Pyrene	**3.70 J**	**12.0**	**8.90 J**	**3.20 J**	**5.30 J**	**11.0**	53.0	Eco
Total HPAHs (KM, capped; NDs at MDL)	**30.5 J**	**69.9 J**	**72.5 J**	**23.0 J**	**25.1 J**	**64.4 J**	193	Eco
Total Polycyclic Aromatic Hydrodarbons (PAHs) (µg/kg dry)								
Total PAHs (KM, capped; NDs at MDL)	**33.7 J**	**80.1 J**	**81.4 J**	**25.0 J**	**29.1 J**	**72.4 J**	1600	Eco
General Chemistry Parameters (mg/kg dry) and Grain Size (%)								
Carbon, Total Organic	**15,000**	**14,200**	**11,900**	**15,400**	**10,600**	**12,500**	-	-
Gravel (>2.00 mm)	**1.91**	**0.400**	**2.02**	**40.0**	**4.61**	**0.500**	-	-
Sand, Very Coarse (1.00 - 2.00 mm)	**0.660**	**0.230**	**3.36**	**13.7**	**0.890**	**0.260**	-	-
Sand, Coarse (0.50 - 1.00 mm)	**0.660**	**0.550**	**4.42**	**16.4**	**1.36**	**0.580**	-	-
Sand, Medium (0.25 - 0.50 mm)	**2.06**	**1.53**	**7.39**	**8.63**	**8.82**	**2.73**	-	-
Sand, Fine (0.125 - 0.25 mm)	**9.54**	**10.1**	**25.6**	**8.36**	**36.7**	**15.2**	-	-
Sand, Very Fine (0.0625 - 0.125 mm)	**18.9**	**24.3**	**27.2**	**4.77**	**24.6**	**28.1**	-	-
Silt (0.039 - 0.0625 mm)	**62.3**	**52.4**	**30.0**	**8.95**	**28.3**	**40.4**	-	-
Clay (<0.039 mm)	**12.9**	**11.3**	**4.12**	**1.04**	**5.57**	**9.88**	-	-

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
Eco = Ecological
HH = Human Health
MDL = method detection limit
ND = Non Detect
SLV = screening level value
RDL = reported detection limit
UPL = Reference Area Upper Prediction Limit
- = Not Analyzed
-- = SLV for analyte not available

[1] Only Aroclors 1248 and 1254 were included in summing sediment Total PCBs as Aroclors because all other aroclors were undected in Forebay sediment samples.
-- = SLV for analyte not available
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
bold = analyte detected above MDL/RDL.
= The reported concentration exceeds the selected SLV

Table 6-8a
Post-Removal Forebay Area Sediment Analytical Results
PCB Aroclors, PCB Congeners, Metals, Petroleum Hydrocarbons, Semivolatile Organic Compounds, General Chemistry Parameters, and Grain Size
(Page 3 of 3)

Area	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	Selected SLV	SLV Source
Site ID	P17	P18	P21	P65	P67	P88	P89		
Sample ID	08022117SD	08021118SD	08021221SD	08022965SD	08030367SD	08031788SD	08031789SD		
Sample Date	2/21/2008	2/11/2008	2/12/2008	2/29/2008	3/3/2008	3/17/2008	3/17/2008		
PCB Aroclors (µg/kg dry)									
Aroclor 1016	9.90 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1221	29.0 U	13.0 U	16.0 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1232	18.0 U	7.50 U	14.0 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1242	1.70 U	2.90 U	5.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1248	1.90 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1254	2.20 U	1.70 U	2.40 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1260	1.70 U	1.70 U	4.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1262	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Aroclor 1268	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	0.0480	HH
Total PCBs as Aroclors (NDs at MDL) [1]	4.10 U	3.40 U	4.10 U	3.40 U	3.40 U	3.40 U	3.40 U	0.0480	HH
PCB Dioxin-Like Congeners (µg/kg dry)									
PCB 77	**0.00151**	**0.00132**	**0.00147**	**0.00104**	**0.000289**	**0.000409**	**0.000341**	0.00640	HH
PCB 81	0.0000802 U	0.000115 U	0.0000934 U	0.000102 U	0.0000693 U	0.0000662 U	0.0000486 U	0.00210	HH
PCB 105	**0.0120**	**0.0113**	**0.0125**	**0.00849**	**0.00130**	**0.00402**	**0.00306**	0.0210	HH
PCB 114	**0.000665**	**0.000621**	**0.000666**	**0.000429**	0.0000580 EMPC	**0.000267**	**0.000174**	0.0210	HH
PCB 118	**0.0274**	**0.0290**	**0.0299**	**0.0209**	**0.00271**	**0.0127**	**0.0100**	0.0260	HH
PCB 123	**0.000459**	**0.000582**	**0.000569**	0.000327 EMPC	0.0000640 EMPC	0.000201 U	0.000158 U	0.0260	HH
PCB 126	**0.000173**	0.000123 EMPC	**0.000189**	0.000135 EMPC	0.0000479 U	0.0000635 U	0.0000693 U	0.00000620	HH
PCB 156	**0.00448 C**	**0.00381 C**	**0.00470 C**	**0.00308 C**	**0.000399 C**	**0.00135 C**	0.000935 C U	0.0260	HH
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**							0.0260	HH
PCB 167	**0.00184**	**0.00190**	**0.00190**	**0.00137**	0.000173 EMPC	0.000710 U	0.000640 U	0.0260	HH
PCB 169	0.000109 U	0.0000841 U	0.000103 U	0.0000931 U	0.0000479 U	0.0000485 U	0.0000454 U	0.0000210	HH
PCB 189	**0.000428 EMPC**	0.000217 EMPC	**0.000332**	**0.000242**	0.0000479 U	**0.000100**	**0.0000980**	0.140	HH
Total PCBs as Congeners (KM, capped)	**0.588 J**	**0.523 J**	**0.571 J**	**0.399 J**	**0.0611 J**	**0.204 J**	**0.151 J**	0.0480	HH
Metals (mg/kg dry)									
Aluminum	**11,000**	**12,400**	**12,100**	**12,500**	**14,400**	**10,400**	**9,000**	38,000	UPL
Antimony	**0.150 J**	**0.150 J**	**0.200 J**	**0.160 J**	**0.0400 J**	**0.140 J**	**0.0900 J**	3.00	Eco
Arsenic	**2.33**	**5.39**	**3.29**	**2.86**	**3.24**	**2.81**	**2.02**	6.00	Eco
Barium	**98.8**	**128**	**129**	**112**	**79.6**	**125**	**85.7**	315	UPL
Beryllium	**0.334**	**0.398**	**0.390**	**0.307**	**0.331**	**0.270**	**0.228**	0.847	UPL
Cadmium	**0.460**	**0.396**	**0.579**	**0.423**	0.115 U	**0.312**	**0.256**	0.674	UPL
Chromium	**15.3**	**20.7**	**17.8**	**18.4**	**27.1**	**15.9**	**10.1**	37.0	Eco
Cobalt	**7.24**	**8.78**	**8.31**	**6.71**	**8.95**	**7.12**	**4.82**	15.2	UPL
Copper	**16.5**	**20.1**	**19.5**	**14.9**	**27.0**	**15.6**	**11.3**	55.6	UPL
Lead	**8.13**	**16.8**	**10.6**	**10.7**	**4.31**	**7.58**	**5.28**	35.0	Eco
Mercury	**0.263**	**0.0910 J**	**0.167**	**0.118 J**	**0.0220**	**0.0430**	**0.0360**	0.214	UPL
Nickel	**13.0**	**13.4**	**14.2**	**11.4**	**16.1**	**11.6**	**6.39**	21.2	UPL
Thallium	**0.135**	**0.158**	**0.187**	**0.178**	0.122 U	**0.143**	0.113 U	0.354	UPL
Vanadium	**36.5**	**39.1**	**36.9**	**36.5**	**29.5**	**35.5**	**27.5**	70.6	UPL
Zinc	**69.0**	**78.2**	**94.1**	**101**	**50.3**	**86.3**	**59.1**	123	Eco
Petroleum Hydrocarbons (mg/kg dry)									
Diesel Range Organics	**54.0**	**10.0 J**	**10.0 J**	**9.30 J**	**3.10 J**	**7.90 J**	**4.00 J**	-	-
Residual Range Organics	**180 J**	**62.0 J**	**67.0 J**	150 U	**17.0 J**	130 U	150 U	-	-
Semivolatile Organic Compounds (µg/kg dry)									
Bis(2-ethylhexyl) Phthalate	200 U	200 U	200 U	200 U	200 U	200 U	200 U	750	Eco
Butyl Benzyl Phthalate	1.50 U	1.50 U	1.50 U	1.50 U	9.90 U	9.80 U	9.80 U	110	Eco
Carbazole	1.30 U	1.30 U	1.30 U	1.30 U	1.30 U	1.30 U	1.30 U	140	Eco
Di-n-butyl Phthalate	10.0 U	10.0 U	10.0 U	9.90 U	11.0 U	14.0 U	14.0 U	110	Eco
Di-n-octyl Phthalate	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	110	Eco
p-cresol (4-Methylphenol)	2.90 U	2.90 U	2.90 U	**11.0**	2.90 U	2.90 U	**18.0**	-	-
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)									
Acenaphthene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	290	Eco
Anthracene	**1.90 J**	1.40 U	1.40 U	**1.50 J**	1.40 U	1.40 U	1.40 U	57.0	Eco
Fluorene	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	77.0	Eco
Phenanthrene	**7.40 J**	**2.90 J**	1.30 U	**2.20 J**	1.30 U	**1.70 J**	1.30 U	42.0	Eco
Total LPAHs (KM, capped; NDs at MDL)	**12.0 J**	**7.00 J**	5.40 U	**6.40 J**	5.40 U	**5.80 J**	5.40 U	76.0	Eco
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)									
Benzo(a)anthracene	**6.00 J**	**2.00 J**	1.40 U	**7.00 J**	1.40 U	1.40 U	1.40 U	32.0	Eco
Benzo(a)pyrene	**7.20 J**	**2.60 J**	1.60 U	**6.10 J**	1.60 U	1.60 U	1.60 U	32.0	Eco
Benzo(b)fluoranthene	**7.50 J**	**4.00 J**	2.50 U	**5.60 J**	2.50 U	2.50 U	2.50 U	27.0	Eco
Benzo(g,h,i)perylene	**6.20 J**	**2.60 J**	2.30 U	**4.20 J**	2.30 U	2.30 U	2.30 U	300	Eco
Benzo(k)fluoranthene	2.50 U	2.50 U	2.50 U	**3.20 J**	2.50 U	2.50 U	2.50 U	27.0	Eco
Chrysene	**7.90 J**	**3.20 J**	**1.80 J**	**12.0**	1.40 U	**1.70 J**	1.40 U	57.0	Eco
Dibenz(a,h)anthracene	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	33.0	Eco
Fluoranthene	**12.0**	**4.80 J**	**2.70 J**	**4.60 J**	2.20 U	**2.60 J**	2.20 U	111	Eco
Indeno(1,2,3-cd)pyrene	**5.70 J**	**2.50 J**	1.90 U	**4.10 J**	1.90 U	1.90 U	1.90 U	17.0	Eco
Pyrene	**17.0**	**4.80 J**	**2.20 J**	**4.40 J**	1.30 U	**2.20 J**	1.30 U	53.0	Eco
Total HPAHs (KM, capped; NDs at MDL)	**73.9 J**	**30.5 J**	**17.5 J**	**53.4 J**	19.3 U	**17.2 J**	19.3 U	193	Eco
Total Polycyclic Aromatic Hydrodarbons (PAHs) (µg/kg dry)									
Total PAHs (KM, capped; NDs at MDL)	**83.4 J**	**34.9 J**	**18.6 J**	**58.4 J**	24.7 U	**19.5 J**	24.7 U	1600	Eco
General Chemistry Parameters (mg/kg dry) and Grain Size (%)									
Carbon, Total Organic	**16,200**	**8,600**	**11,600**	**6,100**	**1,100**	**3,000**	**2,100**	-	-
Gravel (>2.00 mm)	**1.19**	**3.69**	**19.3**	**0.180**	**20.7**	**47.9**	**66.2**	-	-
Sand, Very Coarse (1.00 - 2.00 mm)	**0.950**	**1.96**	**1.00**	**0.210**	**10.6**	**6.39**	**4.70**	-	-
Sand, Coarse (0.50 - 1.00 mm)	**2.32**	**3.67**	**1.40**	**0.540**	**20.2**	**7.02**	**9.54**	-	-
Sand, Medium (0.25 - 0.50 mm)	**9.88**	**18.1**	**4.86**	**5.14**	**19.6**	**15.6**	**12.2**	-	-
Sand, Fine (0.125 - 0.25 mm)	**19.8**	**31.9**	**22.0**	**43.6**	**8.95**	**12.1**	**8.80**	-	-
Sand, Very Fine (0.0625 - 0.125 mm)	**25.3**	**18.6**	**17.9**	**18.3**	**4.72**	**3.53**	**1.92**	-	-
Silt (0.039 - 0.0625 mm)	**34.8**	**22.1**	**34.8**	**22.3**	**10.7**	**6.35**	**2.86**	-	-
Clay (<0.039 mm)	**7.13**	**4.75**	**8.06**	**4.60**	**4.21**	**0.860**	**0.460**	-	-

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
Eco = Ecological
HH = Human Health
MDL = method detection limit
ND = Non Detect
SLV = screening level value
RDL = reported detection limit
UPL = Reference Area Upper Prediction Limit
- = Not Analyzed
-- = SLV for analyte not available

[1] Only Aroclors 1248 and 1254 were included in summing sediment Total PCBs as Aroclors because all other aroclors were undected in Forebay sediment samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
bold = analyte detected above MDL/RDL.
= The reported concentration exceeds the selected SLV

Table 6-8b
Post-Removal Reference Area Sediment Analytical Results
PCB Aroclors, PCB Congeners, Metals, Petroleum Hydrocarbons, Semivolatile Organic Compounds, General Chemistry Parameters, and Grain Size
(Page 1 of 3)

Area	Reference	Reference	Reference	Reference	Reference	Reference
Site ID	P22	P24	P26	P27	P28	P29
Sample ID	08030522SD	08030524SD	08030426SD	08030427SD	08030428SD	08022229SD
Sample Date	3/5/2008	3/5/2008	3/4/2008	3/4/2008	3/4/2008	2/22/2008
PCB Aroclors (µg/kg dry)						
Aroclor 1016	1.70 U	1.70 U	1.70 U	1.70 U	1.80 U	1.70 U
Aroclor 1221	1.70 U	1.70 U	1.70 U	1.70 U	1.80 U	1.70 U
Aroclor 1232	1.70 U	1.70 U	1.70 U	1.70 U	1.80 U	1.70 U
Aroclor 1242	1.70 U	1.70 U	1.70 U	1.70 U	1.80 U	1.70 U
Aroclor 1248	1.70 U	1.70 U	1.70 U	1.70 U	1.80 U	1.70 U
Aroclor 1254	1.70 U	1.70 U	1.70 U	1.70 U	1.80 U	1.70 U
Aroclor 1260	1.70 U	1.70 U	1.70 U	1.70 U	1.80 U	1.70 U
Aroclor 1262	1.70 U	1.70 U	1.70 U	1.70 U	1.80 U	1.70 U
Aroclor 1268	1.70 U	1.70 U	1.70 U	1.70 U	1.80 U	1.70 U
Total PCBs as Aroclors (NDs at MDL) [1]	1.70 U	1.70 U	1.70 U	1.70 U	1.80 U	1.70 U
PCB Dioxin-Like Congeners (µg/kg dry)						
PCB 77	**0.000989**	**0.000983**	**0.000699**	**0.00139**	**0.00111**	**0.00140**
PCB 81	0.0000630 EMPC	0.0000786 U	0.0000490 EMPC	0.000100 EMPC	0.0000832 U	0.0000730 EMPC
PCB 105	**0.00892**	**0.00801**	**0.00717**	**0.0132**	**0.00906**	**0.0109**
PCB 114	**0.000410**	**0.000485**	**0.000378**	**0.000798**	**0.000479**	**0.000602**
PCB 118	**0.0222**	**0.0224**	**0.0209**	**0.0642**	**0.0221**	**0.0283**
PCB 123	0.000380 U	0.000429 U	0.000442 U	**0.00122**	0.000408 U	0.000446 U
PCB 126	0.000175 EMPC	0.000147 EMPC	**0.000117**	**0.000234**	0.000185 EMPC	**0.000205**
PCB 156	**0.00254 C**	**0.00258 C**	**0.00242 C**	**0.00517 C**	**0.00282 C**	**0.00319 C**
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**					
PCB 167	**0.00118**	**0.00130**	**0.00125**	**0.00384**	**0.00118**	**0.00146**
PCB 169	0.0000685 U	0.000102 U	0.0000571 U	0.0000971 U	0.000110 U	0.0000811 U
PCB 189	**0.000225**	**0.000260**	0.000264 EMPC	**0.000351**	**0.000416**	0.000357 EMPC
Total PCBs as Congeners (KM, capped)	**0.413 J**	**0.448 J**	**0.361 J**	**0.932 J**	**0.458 J**	**0.585 J**
Metals (mg/kg dry)						
Aluminum	**21,300**	**18,200**	**33,000**	**20,700**	**29,800**	**11,500**
Antimony	**0.200 J**	**0.210 J**	**0.320 J**	**0.520 J**	**0.220 J**	**0.340 J**
Arsenic	**3.72**	**4.00**	**5.67**	**4.12**	**4.98**	**3.63**
Barium	**207**	**205**	**247**	**225**	**242**	**109**
Beryllium	**0.540**	**0.552**	**0.633**	**0.621**	**0.694**	**0.319**
Cadmium	**0.467**	**0.411**	**0.368**	**0.444**	**0.592**	**0.593**
Chromium	**19.5**	**17.9**	**23.3**	**23.2**	**23.3**	**19.0**
Cobalt	**10.7**	**11.4**	**14.7**	**12.6**	**13.3**	**7.73**
Copper	**33.9**	**37.5**	**40.0**	**45.7**	**43.1**	**17.2**
Lead	**10.5**	**10.0**	**15.1**	**11.1**	**14.1**	**10.3**
Mercury	**0.130**	**0.108**	**0.0630**	**0.196**	**0.130**	**0.225 J**
Nickel	**14.0**	**14.1**	**17.1**	**17.0**	**17.2**	**14.9**
Thallium	**0.240**	**0.234**	**0.360**	**0.280**	**0.318**	**0.236**
Vanadium	**46.1 J**	**50.9 J**	**55.4 J**	**50.9 J**	**66.5 J**	**42.6 J**
Zinc	**75.9**	**70.2**	**82.3**	**74.7**	**88.9**	**82.7**
Petroleum Hydrocarbons (mg/kg dry)						
Diesel Range Organics	**12.0 J**	**9.80 J**	**18.0**	**25.0**	**15.0 J**	**15.0 J**
Residual Range Organics	**34.0 J**	180 U	**52.0 J**	**73.0 J**	**47.0 J**	**41.0 J**
Semivolatile Organic Compounds (µg/kg dry)						
Bis(2-ethylhexyl) Phthalate	**6.60 J**	**4.90 J**	**29.0 J**	**6.70 J**	**11.0 J**	**15.0 J**
Butyl Benzyl Phthalate	1.50 U	1.50 U	1.50 U	**2.50 J**	1.60 U	1.50 U
Carbazole	1.30 U	1.30 U	1.30 U	1.30 U	1.40 U	1.30 U
Di-n-butyl Phthalate	**5.20 J**	**4.10 J**	2.60 UJ	**6.30 J**	**7.40 J**	2.60 UJ
Di-n-octyl Phthalate	1.20 U	1.20 U	1.20 U	1.20 U	1.30 U	1.20 U
p-cresol (4-Methylphenol)	**210**	**170**	**7.10 J**	**130**	**120**	**9.10 J**
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)						
Acenaphthene	1.00 U	1.00 U	1.00 U	1.00 U	1.10 U	1.00 U
Anthracene	1.40 U	1.40 U	1.40 U	1.40 U	1.50 U	1.40 U
Fluorene	1.70 UJ	1.70 UJ	1.70 UJ	1.70 UJ	1.80 UJ	1.70 UJ
Phenanthrene	**2.30 J**	**2.20 J**	**3.60 J**	**3.30 J**	**2.10 J**	**3.70 J**
Total LPAHs (KM, capped; NDs at MDL)	**6.40 J**	**6.30 J**	**7.70 J**	**7.40 J**	**6.50 J**	**7.80 J**
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)						
Benzo(a)anthracene	**1.80 J**	**1.60 J**	**2.30 J**	**3.60 J**	**3.60 J**	**3.30 J**
Benzo(a)pyrene	**1.60 J**	1.60 U	**3.20 J**	1.60 U	**4.80 J**	**3.80 J**
Benzo(b)fluoranthene	2.50 U	2.50 U	**4.40 J**	**4.80 J**	**5.80 J**	**5.00 J**
Benzo(g,h,i)perylene	2.30 U	2.30 U	**4.70 J**	**3.20 J**	**3.60 J**	**3.50 J**
Benzo(k)fluoranthene	2.50 U	2.50 U	2.50 U	2.50 U	2.60 U	2.50 U
Chrysene	**9.70 J**	**2.10 J**	**3.70 J**	**3.50 J**	**4.90 J**	**4.00 J**
Dibenz(a,h)anthracene	2.20 U	2.20 U	2.20 U	2.20 U	2.30 U	2.20 U
Fluoranthene	**3.60 J**	**2.60 J**	**6.40 J**	**6.20 J**	**6.10 J**	2.20 UJ
Indeno(1,2,3-cd)pyrene	1.90 UJ	1.90 UJ	**3.30 J**	**2.70 J**	**3.20 J**	1.90 UJ
Pyrene	**2.60 J**	**1.70 J**	**7.00 J**	**4.50 J**	**4.90 J**	**4.90 J**
Total HPAHs (KM, capped; NDs at MDL)	**27.8 J**	**18.1 J**	**39.5 J**	**33.3 J**	**41.5 J**	**32.1 J**
Total Polycyclic Aromatic Hydrodarbons (PAHs) (µg/kg dry)						
Total PAHs (KM, capped; NDs at MDL)	**31.6 J**	**21.2 J**	**43.9 J**	**37.8 J**	**45.0 J**	**35.2 J**
General Chemistry Parameters (mg/kg dry) and Grain Size (%)						
Carbon, Total Organic	**11,900**	**10,200**	**10,700**	**12,400**	**16,700**	**9,100**
Clay (<0.039 mm)	**4.16**	**7.22**	**3.82**	**4.97**	**6.56**	**4.26**
Gravel (>2.00 mm)	**0.290**	**3.17**	**8.84**	**36.4**	**0.250**	**0.660**
Sand, Coarse (0.50 - 1.00 mm)	**3.21**	**3.77**	**8.71**	**2.26**	**0.560**	**1.44**
Sand, Fine (0.125 - 0.25 mm)	**12.0**	**10.9**	**6.01**	**4.80**	**4.66**	**6.71**
Sand, Medium (0.25 - 0.50 mm)	**8.44**	**3.34**	**5.06**	**1.78**	**1.11**	**5.90**
Sand, Very Coarse (1.00 - 2.00 mm)	**0.770**	**2.99**	**8.44**	**4.84**	**0.230**	**0.380**
Sand, Very Fine (0.0625 - 0.125 mm)	**24.6**	**28.5**	**20.7**	**19.5**	**25.4**	**29.0**
Silt (0.039 - 0.0625 mm)	**50.1**	**51.0**	**38.5**	**51.7**	**64.9**	**54.8**

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
MDL = method detection limit
ND = Non Detect
RDL = reported detection limit
- = Not Analyzed
J = The reported value is an estimate.
bold = analyte detected above MDL/RDL.

[1] The sediment Total PCBs as Aroclors is shown as the maximum MDL because all aroclors were undected in Reference Area sediment samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.

Table 6-8b
Post-Removal Reference Area Sediment Analytical Results
PCB Aroclors, PCB Congeners, Metals, Petroleum Hydrocarbons, Semivolatile Organic Compounds, General Chemistry Parameters, and Grain Size
(Page 2 of 3)

Area	Reference	Reference	Reference	Reference	Reference	Reference
Site ID	P34	P35	P36	P37	P38	P39
Sample ID	08022534SD	08022535SD	08022536SD	08022637SD	08022738SD	08022739SD
Sample Date	2/25/2008	2/25/2008	2/25/2008	2/26/2008	2/27/2008	2/27/2008
PCB Aroclors (µg/kg dry)						
Aroclor 1016	1.70 U	10.0 U	1.70 U	1.70 U	13.0 U	1.70 U
Aroclor 1221	1.70 U	6.00 U	1.70 U	9.80 U	11.0 U	1.70 U
Aroclor 1232	1.70 U	10.0 U	1.70 U	11.0 U	12.0 U	1.70 U
Aroclor 1242	1.70 U	16.0 U	1.70 U	14.0 U	1.70 U	1.70 U
Aroclor 1248	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
Aroclor 1254	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
Aroclor 1260	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
Aroclor 1262	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
Aroclor 1268	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
Total PCBs as Aroclors (NDs at MDL) [1]	1.70 U	16.00 U	1.70 U	14.00 U	13.00 U	1.70 U
PCB Dioxin-Like Congeners (µg/kg dry)						
PCB 77	**0.00201**	**0.00104**	**0.000965**	**0.00102**	**0.00113**	**0.000637**
PCB 81	**0.000143**	0.0000750 U	0.0000896 U	0.0000639 U	0.0000767 U	0.0000556 U
PCB 105	**0.0275**	**0.00818**	**0.00803**	**0.00653**	**0.00985**	**0.00534**
PCB 114	**0.00163**	**0.000382**	**0.000372**	0.000352 EMPC	**0.000422**	0.000337 EMPC
PCB 118	**0.0705**	**0.0199**	**0.0207**	**0.0157**	**0.0356**	**0.0131**
PCB 123	**0.000980**	0.000309 U	0.000401 U	**0.000374**	**0.000656**	0.000235 EMPC
PCB 126	**0.000337**	**0.000126**	0.000139 U	**0.000175**	**0.000184**	0.000115 EMPC
PCB 156	**0.00850 C**	**0.00242 C**	**0.00240 C**	**0.00225 C**	**0.00312 C**	**0.00180 C**
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**					
PCB 167	**0.00320**	0.00110 U	0.00101 U	**0.000918**	**0.00186**	**0.000761**
PCB 169	0.000179 U	0.0000711 U	0.0000891 U	0.0000860 EMPC	0.0000951 U	0.000200 U
PCB 189	**0.000573**	0.000248 EMPC	**0.000237**	**0.000197**	**0.000188**	0.000159 EMPC
Total PCBs as Congeners (KM, capped)	**1.20 J**	**0.405 J**	**0.402 J**	**0.378 J**	**0.591 J**	**0.272 J**
Metals (mg/kg dry)						
Aluminum	**15,100**	**9,890**	**10,100**	**11,200**	**10,100**	**9,380**
Antimony	**0.350 J**	**0.370 J**	**0.260 J**	**0.260 J**	**0.250 J**	**0.220 J**
Arsenic	**3.37**	**3.64**	**3.74**	**4.49**	**3.76**	**3.71**
Barium	**146**	**124**	**120**	**123**	**101**	**98.5**
Beryllium	**0.379**	**0.310**	**0.283**	**0.328**	**0.298**	**0.274**
Cadmium	**0.748**	**0.536**	**0.508**	**0.523**	**0.478**	**0.398**
Chromium	**27.2**	**16.5**	**16.6**	**16.9**	**15.6**	**15.8**
Cobalt	**10.8**	**7.18**	**7.13**	**7.94**	**6.86**	**6.58**
Copper	**20.1**	**14.6**	**14.4**	**15.7**	**14.2**	**13.7**
Lead	**11.5**	**11.0**	**11.3**	**13.2**	**11.2**	**11.4**
Mercury	**0.154 J**	**0.193 J**	**0.120 J**	**0.101 J**	**0.114 J**	**0.119 J**
Nickel	**25.6**	**12.9**	**11.9**	**13.7**	**11.8**	**11.6**
Thallium	**0.245**	**0.205**	**0.208**	**0.234**	**0.197**	**0.185**
Vanadium	**40.5 J**	**30.3 J**	**33.5 J**	**41.9 J**	**37.2 J**	**31.8 J**
Zinc	**93.6**	**92.1**	**98.5**	**109**	**93.3**	**94.6**
Petroleum Hydrocarbons (mg/kg dry)						
Diesel Range Organics	**31.0**	**7.00 J**	**16.0 J**	**9.70 J**	**11.0 J**	**11.0 J**
Residual Range Organics	**100 J**	160 U	**34.0 J**	**41.0 J**	**29.0 J**	**29.0 J**
Semivolatile Organic Compounds (µg/kg dry)						
Bis(2-ethylhexyl) Phthalate	**7.50 J**	**11.0 J**	**11.0 J**	**5.50 J**	**5.90 J**	**6.80 J**
Butyl Benzyl Phthalate	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	**3.80 J**
Carbazole	1.30 U	1.30 U	1.30 U	1.30 U	1.30 U	1.30 U
Di-n-butyl Phthalate	**7.80 J**	**6.40 J**	**5.80 J**	**4.70 J**	**8.60 J**	**4.60 J**
Di-n-octyl Phthalate	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U
p-cresol (4-Methylphenol)	**4.50 J**	2.90 U	**6.30 J**	2.90 U	2.90 U	2.90 U
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)						
Acenaphthene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Anthracene	1.40 U	**2.30 J**	1.40 U	1.40 U	1.40 U	1.40 U
Fluorene	1.70 UJ	1.70 UJ	1.70 UJ	1.70 UJ	1.70 UJ	1.70 UJ
Phenanthrene	**3.00 J**	**2.30 J**	**3.20 J**	**4.40 J**	**2.60 J**	1.30 U
Total LPAHs (KM, capped; NDs at MDL)	**7.10 J**	**7.30 J**	**7.30 J**	**8.50 J**	**6.70 J**	5.40 UJ
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)						
Benzo(a)anthracene	**2.90 J**	**2.20 J**	**3.30 J**	**3.90 J**	**2.50 J**	1.40 U
Benzo(a)pyrene	1.60 U	1.60 U	**6.20 J**	**4.60 J**	1.60 U	1.60 U
Benzo(b)fluoranthene	**5.50 J**	**3.70 J**	**8.30 J**	**6.90 J**	**4.20 J**	2.50 U
Benzo(g,h,i)perylene	**3.60 J**	**2.70 J**	**7.90 J**	**4.60 J**	2.30 U	2.30 U
Benzo(k)fluoranthene	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U
Chrysene	**4.40 J**	**3.10 J**	**4.80 J**	**4.80 J**	**3.20 J**	1.40 U
Dibenz(a,h)anthracene	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U
Fluoranthene	**5.10 J**	**5.60 J**	**5.50 J**	**9.70 J**	**4.10 J**	**2.30 J**
Indeno(1,2,3-cd)pyrene	1.90 UJ	**2.20 J**	**8.80 J**	**4.90 J**	**2.30 J**	1.90 UJ
Pyrene	**4.80 J**	**3.30 J**	**7.10 J**	**7.80 J**	**3.60 J**	**2.10 J**
Total HPAHs (KM, capped; NDs at MDL)	**32.7 J**	**27.9 J**	**56.3 J**	**51.6 J**	**26.5 J**	**16.4 J**
Total Polycyclic Aromatic Hydrodarbons (PAHs) (µg/kg dry)						
Total PAHs (KM, capped; NDs at MDL)	**36.3 J**	**33.0 J**	**60.1 J**	**56.6 J**	**29.7 J**	**17.1 J**
General Chemistry Parameters (mg/kg dry) and Grain Size (%)						
Carbon, Total Organic	**14,800**	**7,300**	**7,000**	**6,600**	**6,400**	**5,500**
Clay (<0.039 mm)	**7.39**	**4.18**	**3.78**	**3.41**	**3.50**	**4.38**
Gravel (>2.00 mm)	**1.39**	**1.37**	**0.180**	**0.000**	**0.220**	**0.0600**
Sand, Coarse (0.50 - 1.00 mm)	**2.83**	**1.16**	**0.470**	**0.710**	**0.670**	**0.450**
Sand, Fine (0.125 - 0.25 mm)	**13.9**	**37.6**	**43.6**	**49.0**	**45.9**	**47.7**
Sand, Medium (0.25 - 0.50 mm)	**7.30**	**5.68**	**2.77**	**5.09**	**5.56**	**11.1**
Sand, Very Coarse (1.00 - 2.00 mm)	**1.74**	**0.0100**	**0.280**	**0.0500**	**0.350**	**0.130**
Sand, Very Fine (0.0625 - 0.125 mm)	**26.2**	**18.2**	**18.4**	**17.8**	**18.9**	**12.0**
Silt (0.039 - 0.0625 mm)	**43.9**	**31.6**	**29.1**	**30.6**	**30.1**	**25.7**

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
MDL = method detection limit
ND = Non Detect
RDL = reported detection limit
- = Not Analyzed
J = The reported value is an estimate.
bold = analyte detected above MDL/RDL.

[1] The sediment Total PCBs as Aroclors is shown as the maximum MDL because all aroclors were undected in Reference Area sediment samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.

Table 6-8b
Post-Removal Reference Area Sediment Analytical Results
PCB Aroclors, PCB Congeners, Metals, Petroleum Hydrocarbons, Semivolatile Organic Compounds, General Chemistry Parameters, and Grain Size
(Page 3 of 3)

Area	Reference	Reference	Reference	Reference	Reference	Reference
Site ID	P40	P41	P42	P85	P86	P87
Sample ID	08022740SD	08022741SD	08022742SD	08030685SD	08030686SD	08030687SD
Sample Date	2/27/2008	2/27/2008	2/27/2008	3/6/2008	3/6/2008	3/6/2008
PCB Aroclors (µg/kg dry)						
Aroclor 1016	3.40 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
Aroclor 1221	6.20 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
Aroclor 1232	10.0 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
Aroclor 1242	13.0 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
Aroclor 1248	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
Aroclor 1254	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
Aroclor 1260	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
Aroclor 1262	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
Aroclor 1268	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
Total PCBs as Aroclors (NDs at MDL) [1]	13.00 U	1.70 U	1.70 U	1.70 U	1.70 U	1.70 U
PCB Dioxin-Like Congeners (µg/kg dry)						
PCB 77	**0.000883**	**0.000709**	**0.000434**	**0.00127**	**0.000734**	**0.000890**
PCB 81	**0.0000580**	0.0000927 U	0.0000700 U	0.0000748 U	0.0000680 U	0.0000988 U
PCB 105	**0.00746**	**0.00489**	**0.00296**	**0.0103**	**0.00582**	**0.00691**
PCB 114	**0.000345**	**0.000284**	**0.000154**	**0.000542**	**0.000328**	**0.000336**
PCB 118	**0.0244**	**0.0139**	**0.00831**	**0.0298**	**0.0141**	**0.0168**
PCB 123	**0.000406**	**0.000272**	0.000172 EMPC	**0.000679**	**0.000309**	**0.000342**
PCB 126	0.000147 EMPC	0.0000930 EMPC	0.0000583 U	0.000184 EMPC	**0.0000840**	**0.000123**
PCB 156	**0.00246 C**	**0.00165 C**	**0.000930 C**	**0.00374 C**	**0.00204 C**	**0.00266 C**
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**					
PCB 167	**0.00140**	**0.000870**	0.000482 EMPC	**0.00197**	**0.000915**	**0.00120**
PCB 169	0.000100 U	0.000100 U	0.0000542 U	0.000200 U	0.000100 U	0.000100 U
PCB 189	**0.000181**	**0.000132**	**0.0000720**	**0.000250**	**0.000158**	**0.000243**
Total PCBs as Congeners (KM, capped)	**0.442 J**	**0.273 J**	**0.161 J**	**0.634 J**	**0.326 J**	**0.409 J**
Metals (mg/kg dry)						
Aluminum	**10,700**	**8,550**	**7,380**	**33,500**	**22,100**	**29,400**
Antimony	**0.190 J**	**0.160 J**	**0.150 J**	**0.180 J**	**0.270 J**	**0.290 J**
Arsenic	**3.75**	**3.36**	**3.03**	**5.10**	**6.04**	**5.36**
Barium	**117**	**104**	**86.3**	**312**	**201**	**231**
Beryllium	**0.303**	**0.244**	**0.194**	**0.748**	**0.522**	**0.628**
Cadmium	**0.413**	**0.332**	**0.262**	**0.449**	**0.484**	**0.558**
Chromium	**18.2**	**13.5**	**12.8**	**27.3**	**23.0**	**26.5**
Cobalt	**7.11**	**6.08**	**5.68**	**15.2**	**10.0**	**12.9**
Copper	**13.6**	**10.5**	**8.22**	**47.8**	**30.7**	**39.2**
Lead	**11.6**	**9.59**	**8.65**	**13.1**	**11.7**	**13.4**
Mercury	**0.167 J**	**0.0870 J**	**0.0410**	**0.0870**	**0.166**	**0.128**
Nickel	**12.3**	**11.2**	**9.87**	**18.2**	**13.3**	**16.1**
Thallium	**0.208**	**0.172**	**0.145**	**0.337**	**0.233**	**0.346**
Vanadium	**33.4 J**	**30.4 J**	**25.7 J**	**76.9 J**	**50.4 J**	**66.3 J**
Zinc	**101**	**88.0**	**85.1**	**76.1**	**81.2**	**89.3**
Petroleum Hydrocarbons (mg/kg dry)						
Diesel Range Organics	**31.0**	**8.10 J**	**7.40 J**	**31.0**	**11.0 J**	**13.0 J**
Residual Range Organics	**50.0 J**	150 U	150 U	**73.0 J**	180 U	**32.0 J**
Semivolatile Organic Compounds (µg/kg dry)						
Bis(2-ethylhexyl) Phthalate	**7.50 J**	**6.80 J**	**5.70 J**	**110 J**	**5.80 J**	**15.0 J**
Butyl Benzyl Phthalate	1.50 U	1.50 U	1.50 U	1.50 U	1.50 U	1.50 UJ
Carbazole	1.30 U	1.30 U	1.30 U	1.30 U	1.30 U	1.30 UJ
Di-n-butyl Phthalate	**11.0 J**	**3.80 J**	**3.50 J**	2.60 UJ	**4.10 J**	**4.30 J**
Di-n-octyl Phthalate	1.20 U	1.20 U	1.20 U	1.20 U	1.20 U	1.20 UJ
p-cresol (4-Methylphenol)	2.90 U	2.90 U	2.90 U	**5.50 J**	**6.60 J**	**7.90 J**
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg dry)						
Acenaphthene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UJ
Anthracene	1.40 U	**1.40 J**	1.40 U	1.40 U	1.40 U	1.40 UJ
Fluorene	1.70 UJ	1.70 UJ	1.70 UJ	1.70 UJ	1.70 UJ	1.70 UJ
Phenanthrene	**1.30 J**	**5.90 J**	1.30 U	**1.90 J**	**2.00 J**	**3.60 J**
Total LPAHs (KM, capped; NDs at MDL)	**5.40 J**	**10.0 J**	5.40 UJ	**6.00 J**	**6.10 J**	**7.70 J**
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg dry)						
Benzo(a)anthracene	1.40 U	**10.0**	1.40 U	1.40 U	**1.80 J**	**3.00 J**
Benzo(a)pyrene	1.60 U	**11.0**	1.60 U	**2.80 J**	1.60 U	**2.60 J**
Benzo(b)fluoranthene	2.50 U	**17.0**	2.50 U	**3.60 J**	**2.70 J**	**3.50 J**
Benzo(g,h,i)perylene	2.30 U	**7.30 J**	2.30 U	2.30 U	2.30 U	**2.30 J**
Benzo(k)fluoranthene	2.50 U	**5.00 J**	2.50 U	2.50 U	2.50 U	2.50 UJ
Chrysene	**1.90 J**	**9.80**	1.40 U	1.40 U	**2.40 J**	**3.10 J**
Dibenz(a,h)anthracene	2.20 U	2.20 U	2.20 U	2.20 U	2.20 U	2.20 UJ
Fluoranthene	**2.30 J**	**31.0 J**	2.20 UJ	2.20 UJ	**3.60 J**	**5.00 J**
Indeno(1,2,3-cd)pyrene	1.90 UJ	**8.40 J**	1.90 UJ	1.90 UJ	1.90 UJ	**2.00 J**
Pyrene	**1.80 J**	**23.0 J**	**1.50 J**	**2.70 J**	**2.10 J**	**4.90 J**
Total HPAHs (KM, capped; NDs at MDL)	**16.9 J**	**125 J**	**19.5 J**	**18.9 J**	**21.4 J**	**30.5 J**
Total Polycyclic Aromatic Hydrodarbons (PAHs) (µg/kg dry)						
Total PAHs (KM, capped; NDs at MDL)	**19.6 J**	**133 J**	**24.9 J**	**21.5 J**	**24.0 J**	**35.7 J**
General Chemistry Parameters (mg/kg dry) and Grain Size (%)						
Carbon, Total Organic	**5,900**	**5,100**	**2,900**	**12,800**	**8,100**	**10,300**
Clay (<0.039 mm)	**2.89**	**2.94**	**1.65**	**6.16**	**4.49**	**4.80**
Gravel (>2.00 mm)	**1.23**	**0.000**	**0.0200**	**10.8**	**18.8**	**1.47**
Sand, Coarse (0.50 - 1.00 mm)	**0.520**	**0.420**	**0.470**	**1.61**	**3.24**	**1.46**
Sand, Fine (0.125 - 0.25 mm)	**46.6**	**38.3**	**40.5**	**10.0**	**5.43**	**5.77**
Sand, Medium (0.25 - 0.50 mm)	**14.0**	**36.3**	**47.9**	**1.45**	**2.02**	**1.36**
Sand, Very Coarse (1.00 - 2.00 mm)	**0.210**	**0.110**	**0.0700**	**2.59**	**8.47**	**1.98**
Sand, Very Fine (0.0625 - 0.125 mm)	**9.20**	**7.21**	**3.87**	**33.4**	**18.3**	**25.2**
Silt (0.039 - 0.0625 mm)	**22.3**	**16.3**	**7.31**	**36.2**	**43.1**	**60.6**

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
MDL = method detection limit
ND = Non Detect
RDL = reported detection limit
- = Not Analyzed
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bold = analyte detected above MDL/RDL.

[1] The sediment Total PCBs as Aroclors is shown as the maximum MDL because all aroclors were undected in Reference Area sediment samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.

Table 6-9a
Post-Removal Forebay Area Clam Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, Metals, and Semivolatile Organic Compounds
(Page 1 of 3)

Area	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	Selected SLV	SLV Source
Site ID	P04	P05	P06	P07	P08	P09		
Sample ID	08022604TC	08031905TC	08031806TC	08021507TC	08021508TC	08021409TC		
Sample Date	2/26/2008	3/19/2008	3/18/2008	2/15/2008	2/15/2008	2/14/2008		
Percent Lipds	3.0	3.0	2.9	2.6	2.6	2.3		
PCB Aroclors (µg/kg wet)								
Aroclor 1016	18.0 U	2.40 U	2.40 U	19.0 U	23.0 U	23.0 U	35.0	Eco
Aroclor 1221	20.0 U	2.60 U	2.60 U	20.0 U	20.0 U	20.0 U	35.0	Eco
Aroclor 1232	40.0 U	2.30 U	2.30 U	27.0 U	25.0 U	30.0 U	35.0	Eco
Aroclor 1242	48.0 U	2.20 U	2.20 U	35.0 U	29.0 U	30.0 U	35.0	Eco
Aroclor 1248	0.510 U	0.510 U	0.510 U	26.0 U	13.0 U	6.00 U	35.0	Eco
Aroclor 1254	**120 J**	**23.0 J**	**32.0 J**	74.0 U	55.0 U	49.0 U	35.0	Eco
Aroclor 1260	1.90 U	1.90 U	1.90 U	11.0 U	9.40 U	8.50 U	35.0	Eco
Aroclor 1262	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	35.0	Eco
Aroclor 1268	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	35.0	Eco
Total PCBs as Aroclors (NDs at MDL) [1]	**120 J**	**23.0 J**	**32.0 J**	74.0 U	55.0 U	49.0 U	35.0	Eco
PCB Dioxin-Like Congeners (µg/kg wet)								
PCB 77	**0.0690**	**0.0410**	**0.0523**	**0.0359**	**0.0348**	-	0.160	Eco
PCB 81	0.00330 EMPC	0.00270 EMPC	0.00197 EMPC	0.00156 EMPC	0.00142 EMPC	-	0.0800	Eco
PCB 105	**6.20**	**1.02**	**1.73**	**0.924**	**0.741**	-	20.0	Eco
PCB 114	**0.445**	**0.0774**	**0.126**	**0.0655**	**0.0525**	-	20.0	Eco
PCB 118	**64.7**	**10.3**	**15.9**	**12.1**	**7.97**	-	20.0	Eco
PCB 123	**1.15**	**0.239**	**0.293**	**0.229**	**0.152**	-	20.0	Eco
PCB 126	**0.0110**	**0.00527**	**0.00574**	**0.00457**	**0.00417**	-	0.00580	Eco
PCB 156	**3.61 C**	**0.614 C**	**0.828 C**	**0.584 C**	**0.405 C**	-	20.0	Eco
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**						20.0	Eco
PCB 167	**3.80**	**0.956**	**1.18**	**0.944**	**0.566**	-	20.0	Eco
PCB 169	0.0165 U	0.00173 U	0.00660 U	0.00560 U	0.00473 U	-	0.0200	Eco
PCB 189	**0.0101**	**0.00277**	**0.00403**	**0.00222**	**0.00212**	-	20.0	Eco
Total PCBs as Congeners (KM, capped)	**312 J**	**65.8 J**	**95.1 J**	**65.7 J**	**51.5 J**	-	35.0	Eco
Metals (mg/kg wet)								
Aluminum	**61.1**	**13.2**	**10.9**	**21.9**	**21.7**	**76.8**	--	--
Antimony	0.00200 U	0.00400 U	0.00400 U	0.00200 U	**0.00700 J**	**0.00200 J**	--	--
Arsenic	**2.48**	**2.44**	**2.26**	**2.38**	**2.24**	**2.12**	6.60	Eco
Barium	**2.14**	**1.23**	**1.35**	**2.23**	**1.62**	**2.45**	--	--
Beryllium	**0.00240 J**	**0.00100 J**	**0.00100 J**	**0.00170 J**	**0.00230 J**	**0.00280 J**	--	--
Cadmium	**0.369**	**0.383**	**0.406**	**0.377**	**0.351**	**0.305**	0.150	Eco
Chromium	**0.700**	**0.380**	**0.340**	**0.900**	**0.800**	**0.700**	--	--
Cobalt	**0.133**	**0.0790**	**0.0700**	**0.117**	**0.0970**	**0.148**	--	--
Copper	**10.4**	**9.63**	**9.45**	**9.80**	**9.36**	**8.36**	--	--
Lead	**0.0570**	**0.0260**	**0.0280**	**0.0330**	**0.0310**	**0.0890**	0.120	Eco
Mercury	**0.0160**	**0.00780**	**0.00660**	**0.00850**	**0.00710**	**0.0341**	0.0740	Eco
Methyl Mercury	**0.00460**	**0.00480**	**0.00490**	**0.00410**	**0.00350**	**0.00480**	--	--
Nickel	**0.281**	**0.114**	**0.117**	**0.306**	**0.263**	**0.336**	--	--
Thallium	**0.00660**	**0.00720**	**0.00970**	**0.00570**	**0.0119**	**0.00630**	--	--
Vanadium	**0.301**	**0.0810**	**0.0850**	**0.117**	**0.141**	**0.314**	--	--
Zinc	**26.5**	**19.8**	**19.9**	**20.6**	**18.0**	**22.3**	--	--
Semivolatile Organic Compounds (µg/kg wet)								
Bis(2-ethylhexyl) Phthalate	**150 J**	**670**	**740**	**130 J**	**130 J**	**150 J**	1,760	Eco
Butyl Benzyl Phthalate	7.30 U	**14.0 J**	7.30 U	7.30 U	7.30 U	11.0 U	310	Eco
Carbazole	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U	13.0 U	--	--
Di-n-butyl Phthalate	16.0 U	16.0 U	16.0 U	16.0 U	16.0 U	56.0 U	626	Eco
Di-n-octyl Phthalate	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	16.0 U	626	Eco
p-cresol (4-Methylphenol)	**25.0 J**	**18.0 J**	**14.0 J**	**20.0 J**	**10.0 J**	11.0 U	--	--
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg wet)								
Acenaphthene	**0.990**	**1.10**	**1.10 J**	**1.10**	**0.910**	**0.940**	19,000	Eco
Anthracene	0.0650 U	**0.960 J**	**1.00 J**	0.0650 U	**0.990**	**0.280 J**	19,000	Eco
Fluorene	**2.30**	**3.00**	**2.80 J**	**2.50**	**2.40**	**2.00**	19,000	Eco
Phenanthrene	**9.10**	**8.90**	**9.60 J**	**12.0**	**11.0**	**9.80**	19,000	Eco
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg wet)								
Benzo(a)anthracene	0.0660 U	12.0 U	15.0 U	0.0660 U	**0.800**	**1.20**	1,000	Eco
Benzo(a)pyrene	0.0810 U	0.410 U	0.410 U	0.0810 U	**0.440 J**	0.610 U	1,000	Eco
Benzo(b)fluoranthene	0.0700 U	0.350 U	0.350 U	0.800 U	**0.530**	**0.950**	1,000	Eco
Benzo(g,h,i)perylene	**0.300 J**	0.370 U	0.370 U	0.0730 U	**0.0900 J**	**0.360 J**	1,000	Eco
Benzo(k)fluoranthene	0.0560 U	0.280 U	0.280 U	0.0560 U	0.0560 U	0.0560 U	1,000	Eco
Chrysene	0.0760 U	5.60 U	6.60 U	0.0760 U	**3.00**	**4.00**	1,000	Eco
Dibenz(a,h)anthracene	0.0590 U	0.300 U	0.300 U	0.0590 U	0.0590 U	0.0590 U	1,000	Eco
Fluoranthene	**11.0**	**11.0**	**12.0 J**	16.0 U	**12.0**	11.0 U	19,000	Eco
Indeno(1,2,3-cd)pyrene	**2.50**	0.320 U	0.320 U	0.0640 U	**0.0900 J**	**0.320 J**	1,000	Eco
Pyrene	0.0980 U	4.90 U	5.30 U	0.0980 U	**1.70**	2.30 U	1,000	Eco

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
RDL = reported detection limit
- = Not Analyzed
-- = SLV for analyte not available
ND = Non Detect

[1] Only Aroclor 1254 was included in summing Total PCBs as Aroclors because all other aroclors were undected in Forebay clam samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
bold = analyte detected above MDL/RDL.
= The reported concentration exceeds the selected SLV

Table 6-9a
Post-Removal Forebay Area Clam Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, Metals, and Semivolatile Organic Compounds
(Page 2 of 3)

Area	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	Selected SLV	SLV Source
Site ID	P10	P11	P13	P14	P15	P16		
Sample ID	08021410TC	08021411TC	08031713TC	08031814TC	08022115TC	08022116TC		
Sample Date	2/14/2008	2/14/2008	3/17/2008	3/18/2008	2/21/2008	2/21/2008		
Percent Lipds	2.0	2.6	2.7	2.8	2.6	2.3		
PCB Aroclors (µg/kg wet)								
Aroclor 1016	23.0 U	21.0 U	2.40 U	2.40 U	19.0 U	17.0 U	35.0	Eco
Aroclor 1221	20.0 U	20.0 U	2.60 U	2.60 U	20.0 U	20.0 U	35.0	Eco
Aroclor 1232	34.0 U	36.0 U	2.30 U	2.30 U	35.0 U	30.0 U	35.0	Eco
Aroclor 1242	19.0 U	19.0 U	2.20 U	2.20 U	17.0 U	15.0 U	35.0	Eco
Aroclor 1248	12.0 U	9.90 U	0.510 U	0.510 U	4.60 U	4.50 U	35.0	Eco
Aroclor 1254	36.0 U	32.0 U	**22.0**	**22.0**	32.0 U	30.0 U	35.0	Eco
Aroclor 1260	6.90 U	6.40 U	1.90 U	1.90 U	6.70 U	6.80 U	35.0	Eco
Aroclor 1262	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	35.0	Eco
Aroclor 1268	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	35.0	Eco
Total PCBs as Aroclors (NDs at MDL) [1]	36.0 U	32.0 U	**22.0**	**22.0**	32.0 U	30.0 U	35.0	Eco
PCB Dioxin-Like Congeners (µg/kg wet)								
PCB 77	**0.0269**	**0.0336**	**0.0375**	**0.0388**	**0.0333**	**0.0301**	0.160	Eco
PCB 81	0.000693 EMPC	0.00142 EMPC	**0.00194**	0.00208 EMPC	0.00131 EMPC	0.00154 EMPC	0.0800	Eco
PCB 105	**0.455**	**0.407**	**0.437**	**0.464**	**0.397**	**0.361**	20.0	Eco
PCB 114	**0.0281**	**0.0238**	**0.0260**	**0.0274**	**0.0231**	**0.0209**	20.0	Eco
PCB 118	**4.09**	**2.26**	**2.73**	**2.87**	**2.30**	**2.17**	20.0	Eco
PCB 123	**0.0837**	**0.0462**	**0.0512**	**0.0595**	**0.0471**	**0.0420**	20.0	Eco
PCB 126	**0.00337**	**0.00413**	**0.00506**	**0.00531**	**0.00386**	**0.00402**	0.00580	Eco
PCB 156	**0.228 C**	**0.136 C**	**0.157 C**	**0.171 C**	**0.133 C**	**0.128 C**	20.0	Eco
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**						20.0	Eco
PCB 167	**0.302**	**0.146**	**0.209**	**0.213**	**0.157**	**0.149**	20.0	Eco
PCB 169	0.00337 U	0.00327 U	0.00135 U	0.00109 U	0.00356 U	0.00353 U	0.0200	Eco
PCB 189	**0.00152**	**0.00171**	**0.00166**	**0.00203**	**0.00156**	**0.00156**	20.0	Eco
Total PCBs as Congeners (KM, capped)	**30.6 J**	**26.7 J**	**33.1 J**	**34.0 J**	**26.9 J**	**25.5 J**	35.0	Eco
Metals (mg/kg wet)								
Aluminum	**81.4**	**33.7**	**9.53**	**9.42**	**18.7**	**15.9**	--	--
Antimony	**0.00200 J**	0.00200 U	0.00400 U	0.00400 U	0.00200 U	0.00200 U	--	--
Arsenic	**1.79**	**2.04**	**2.49**	**2.47**	**2.43**	**2.11**	6.60	Eco
Barium	**2.22**	**2.04**	**1.74**	**1.18**	**1.77**	**1.63**	--	--
Beryllium	**0.00270 J**	**0.00190 J**	**0.00150 J**	**0.00170 J**	**0.00160 J**	**0.00140 J**	--	--
Cadmium	**0.286**	**0.321**	**0.461**	**0.442**	**0.366**	**0.321**	0.150	Eco
Chromium	**0.600**	**0.700**	**0.560**	**0.390**	**0.900**	**0.600**	--	--
Cobalt	**0.140**	**0.135**	**0.0980**	**0.0720**	**0.120**	**0.104**	--	--
Copper	**7.00**	**7.95**	**11.4**	**9.72**	**10.4**	**8.67**	--	--
Lead	**0.0610**	**0.0510**	**0.0290**	**0.0290**	**0.0370**	**0.0350**	0.120	Eco
Mercury	**0.00870**	**0.0108**	**0.00720**	**0.0169**	**0.0132**	**0.0103**	0.0740	Eco
Methyl Mercury	**0.00500**	**0.00500**	**0.00530**	**0.00650**	**0.00530**	**0.00480**	--	--
Nickel	**0.348**	**0.320**	**0.136**	**0.0950**	**0.242**	**0.222**	--	--
Thallium	**0.00500**	**0.00570**	**0.00710**	**0.00720**	**0.00580**	**0.00470**	--	--
Vanadium	**0.311**	**0.196**	**0.0850**	**0.0930**	**0.136**	**0.175**	--	--
Zinc	**22.9**	**23.5**	**17.8**	**16.3**	**20.8**	**17.7**	--	--
Semivolatile Organic Compounds (µg/kg wet)								
Bis(2-ethylhexyl) Phthalate	**97.0 J**	**120 J**	**890**	**720**	**180 J**	**130 J**	1,760	Eco
Butyl Benzyl Phthalate	7.30 U	7.30 U	7.30 U	**13.0 J**	7.30 U	7.30 U	310	Eco
Carbazole	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U	--	--
Di-n-butyl Phthalate	16.0 U	16.0 U	16.0 U	16.0 U	16.0 U	16.0 U	626	Eco
Di-n-octyl Phthalate	11.0 U	11.0 U	11.0 U	**38.0 J**	11.0 U	11.0 U	626	Eco
p-cresol (4-Methylphenol)	7.70 U	**14.0 J**	**8.60 J**	7.70 U	7.70 U	7.70 U	--	--
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg wet)								
Acenaphthene	**0.800**	**0.970**	**4.10**	**0.840**	**1.00 J**	**0.820**	19,000	Eco
Anthracene	**0.440 J**	**0.850**	**2.30 J**	**1.10 J**	**0.940 J**	**0.980**	19,000	Eco
Fluorene	**1.60**	**2.30**	**3.80**	**2.70**	**2.50 J**	**2.00**	19,000	Eco
Phenanthrene	**6.70**	**12.0**	**15.0**	**9.60**	**13.0 J**	**8.00**	19,000	Eco
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg wet)								
Benzo(a)anthracene	**0.480 J**	**2.10**	22.0 U	15.0 U	0.0660 UJ	**0.990**	1,000	Eco
Benzo(a)pyrene	0.0810 U	**0.580**	0.410 U	0.410 U	0.0810 UJ	0.0810 U	1,000	Eco
Benzo(b)fluoranthene	**0.400 J**	**0.810**	0.350 U	0.350 U	**0.780 J**	**0.600**	1,000	Eco
Benzo(g,h,i)perylene	0.0730 U	**0.120 J**	2.50 U	0.370 U	**0.240 J**	**0.270 J**	1,000	Eco
Benzo(k)fluoranthene	**0.160 J**	0.0560 U	0.280 U	0.280 U	0.0560 UJ	0.0560 U	1,000	Eco
Chrysene	**2.90**	**3.00**	6.70 U	7.80 U	0.0760 UJ	**3.20**	1,000	Eco
Dibenz(a,h)anthracene	0.0590 U	0.0590 U	0.300 U	0.300 U	0.0590 UJ	0.0590 U	1,000	Eco
Fluoranthene	**8.90**	**13.0**	**14.0**	**12.0**	**6.30 J**	**11.0**	19,000	Eco
Indeno(1,2,3-cd)pyrene	0.0640 U	**0.0800 J**	0.320 U	0.320 U	0.0640 UJ	**0.400 J**	1,000	Eco
Pyrene	**2.40**	**2.20**	7.20 U	4.60 U	**3.60 J**	**1.60**	1,000	Eco

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
RDL = reported detection limit
- = Not Analyzed
-- = SLV for analyte not available
ND = Non Detect

[1] Only Aroclor 1254 was included in summing Total PCBs as Aroclors because all other aroclors were undected in Forebay clam samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
bold = analyte detected above MDL/RDL.
= The reported concentration exceeds the selected SLV

Table 6-9a
Post-Removal Forebay Area Clam Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, Metals, and Semivolatile Organic Compounds
(Page 3 of 3)

Area	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	Forebay	Selected SLV	SLV Source
Site ID	P17	P18	P21	P65	P67	P88	P89		
Sample ID	08022117TC	08021118TC	08021221TC	08022965TC	08030367TC	08031788TC	08031789TC		
Sample Date	2/21/2008	2/12/2008	2/12/2008	2/29/2008	3/3/2008	3/17/2008	3/17/2008		
Percent Lipds	2.2	2.4	2.4	3.3	3.7	2.8	2.6		
PCB Aroclors (µg/kg wet)									
Aroclor 1016	17.0 U	17.0 U	15.0 U	2.40 U	2.40 U	2.40 U	2.40 U	35.0	Eco
Aroclor 1221	20.0 U	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U	35.0	Eco
Aroclor 1232	31.0 U	23.0 U	19.0 U	2.30 U	2.30 U	2.30 U	2.30 U	35.0	Eco
Aroclor 1242	15.0 U	22.0 U	10.0 U	2.20 U	2.20 U	2.20 U	2.20 U	35.0	Eco
Aroclor 1248	9.20 U	9.90 U	4.60 U	0.510 U	0.510 U	0.510 U	0.510 U	35.0	Eco
Aroclor 1254	28.0 U	28.0 U	30.0 U	**21.0**	**21.0**	**23.0**	**21.0**	35.0	Eco
Aroclor 1260	5.90 U	5.90 U	6.20 U	1.90 U	1.90 U	1.90 U	1.90 U	35.0	Eco
Aroclor 1262	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	35.0	Eco
Aroclor 1268	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	35.0	Eco
Total PCBs as Aroclors (NDs at MDL) [1]	28.0 U	28.0 U	30.0 U	**21.0**	**21.0**	**23.0**	**21.0**	35.0	Eco
PCB Dioxin-Like Congeners (µg/kg wet)									
PCB 77	**0.0307**	**0.0339**	**0.0320**	**0.0420**	-	**0.0398**	**0.0359**	0.160	Eco
PCB 81	0.00155 EMPC	0.00142 EMPC	0.00138 EMPC	**0.00246**	-	**0.00201**	**0.00238**	0.0800	Eco
PCB 105	**0.365**	**0.377**	**0.371**	**0.478**	-	**0.476**	**0.444**	20.0	Eco
PCB 114	**0.0202**	**0.0228**	**0.0216**	**0.0291**	-	**0.0287**	**0.0273**	20.0	Eco
PCB 118	**2.08**	**2.13**	**2.05**	**2.54**	-	**2.76**	**2.67**	20.0	Eco
PCB 123	**0.0384**	**0.0413**	**0.0392**	**0.0438**	-	**0.0520**	**0.0544**	20.0	Eco
PCB 126	**0.00339**	**0.00363**	**0.00400**	**0.00530**	-	**0.00510**	**0.00472**	0.00580	Eco
PCB 156	**0.120 C**	**0.124 C**	**0.121 C**	**0.156 C**	-	**0.168 C**	**0.158 C**	20.0	Eco
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**							20.0	Eco
PCB 167	**0.134**	**0.131**	**0.125**	**0.154**	-	**0.185**	**0.201**	20.0	Eco
PCB 169	0.00340 U	0.00366 U	0.00362 U	0.000940 U	-	0.000901 U	0.00110 U	0.0200	Eco
PCB 189	**0.00167**	**0.00160**	**0.00166**	**0.00221**	-	**0.00218**	**0.00181**	20.0	Eco
Total PCBs as Congeners (KM, capped)	**24.5 J**	**25.9 J**	**24.6 J**	**33.1 J**	-	**33.2 J**	**31.6 J**	35.0	Eco
Metals (mg/kg wet)									
Aluminum	**35.2**	**34.5**	**49.2**	**83.2**	**15.2**	**9.37**	**18.9**	--	--
Antimony	**0.00300 J**	0.00200 U	**0.00400 J**	0.00400 U	0.00500 U	0.00400 U	0.00400 U	--	--
Arsenic	**1.88**	**1.88**	**2.07**	**2.31**	**2.15**	**2.34**	**2.38**	6.60	Eco
Barium	**1.76**	**2.05**	**2.29**	**3.05**	**1.64**	**1.49**	**1.62**	--	--
Beryllium	**0.00210 J**	**0.00180 J**	**0.00250 J**	**0.00380 J**	**0.00120 J**	**0.000700 J**	**0.00170 J**	--	--
Cadmium	**0.287**	**0.342**	**0.313**	**0.355**	**0.396**	**0.396**	**0.412**	0.150	Eco
Chromium	**0.600**	**0.700**	**0.800**	**0.480**	**0.300**	**0.330**	**0.530**	--	--
Cobalt	**0.115**	**0.110**	**0.124**	**0.138**	**0.0720**	**0.0670**	**0.0840**	--	--
Copper	**8.00**	**8.31**	**8.29**	**9.56**	**9.00**	**8.86**	**9.61**	--	--
Lead	**0.0370**	**0.0580**	**0.0580**	**0.0800**	**0.0330**	**0.0210**	**0.0260**	0.120	Eco
Mercury	**0.0116**	**0.0102**	**0.00770**	**0.00880**	**0.00860**	**0.0101**	**0.00580**	0.0740	Eco
Methyl Mercury	**0.00400**	**0.00510**	**0.00360**	**0.00480**	**0.00630**	**0.00430**	**0.00360**	--	--
Nickel	**0.238**	**0.303**	**0.324**	**0.227**	**0.144**	**0.126**	**0.178**	--	--
Thallium	**0.00450**	**0.00600**	**0.00590**	**0.00850**	**0.00950**	**0.00710**	**0.00700**	--	--
Vanadium	**0.205**	**0.207**	**0.204**	**0.426**	**0.104**	**0.0780**	**0.107**	--	--
Zinc	**20.2**	**25.1**	**23.5**	**25.0**	**24.3**	**20.4**	**21.6**	--	--
Semivolatile Organic Compounds (µg/kg wet)									
Bis(2-ethylhexyl) Phthalate	**67.0 J**	**130 J**	**110 J**	**760**	**830**	**710**	**750 J**	1,760	Eco
Butyl Benzyl Phthalate	7.30 U	7.30 U	7.30 U	7.30 U	7.30 U	**15.0 J**	7.30 U	310	Eco
Carbazole	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U	--	--
Di-n-butyl Phthalate	16.0 U	16.0 U	40.0 U	16.0 U	16.0 U	16.0 U	16.0 UJ	626	Eco
Di-n-octyl Phthalate	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 UJ	626	Eco
p-cresol (4-Methylphenol)	7.70 U	7.70 U	7.70 U	**31.0 J**	**8.60 J**	**9.30 J**	7.70 U	--	--
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg wet)									
Acenaphthene	**0.670**	**0.910**	**0.980**	**0.420 J**	0.110 U	**0.460 J**	**1.10**	19,000	Eco
Anthracene	**0.460 J**	**1.20**	**0.790**	0.330 U	0.330 U	**0.800 J**	**1.50**	19,000	Eco
Fluorene	**1.60**	**2.20**	**2.10**	**1.70**	**0.920**	**1.50 J**	**2.90**	19,000	Eco
Phenanthrene	**6.90**	**9.70**	**8.50**	**7.90**	**4.50**	**5.30 J**	**12.0**	19,000	Eco
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg wet)									
Benzo(a)anthracene	**0.680**	**1.30**	**0.970**	0.330 U	0.330 U	17.0 UJ	1.30 U	1,000	Eco
Benzo(a)pyrene	0.0810 U	0.620 U	**0.380 J**	0.410 U	0.410 U	0.410 UJ	0.860 U	1,000	Eco
Benzo(b)fluoranthene	**0.710**	**0.640**	**0.550**	0.350 U	0.350 U	0.350 UJ	0.740 U	1,000	Eco
Benzo(g,h,i)perylene	0.0730 U	**0.130 J**	**0.130 J**	0.370 U	0.370 U	0.370 UJ	0.500 U	1,000	Eco
Benzo(k)fluoranthene	0.0560 U	**0.250 J**	0.0560 U	0.280 U	0.280 U	0.280 UJ	0.580 U	1,000	Eco
Chrysene	**2.60**	**1.90**	**3.70**	0.380 U	0.380 U	6.50 UJ	2.50 U	1,000	Eco
Dibenz(a,h)anthracene	0.0590 U	0.0590 U	0.0590 U	0.300 U	0.300 U	0.300 UJ	0.500 U	1,000	Eco
Fluoranthene	**9.40**	14.0 U	**11.0**	14.0 U	8.60 U	**7.60 J**	**16.0**	19,000	Eco
Indeno(1,2,3-cd)pyrene	0.0640 U	**0.0850 J**	0.0640 U	0.320 U	0.320 U	0.320 UJ	0.500 U	1,000	Eco
Pyrene	**2.90**	2.90 U	1.50 U	0.490 U	0.490 U	4.00 UJ	**6.30**	1,000	Eco

Notes:

µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
Eco = Ecological
HH = Human Health
MDL = method detection limit
SLV = screening level value
RDL = reported detection limit
- = Not Analyzed
-- = SLV for analyte not available
ND = Non Detect

[1] Only Aroclor 1254 was included in summing Total PCBs as Aroclors because all other aroclors were undected in Forebay clam samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
bold = analyte detected above MDL/RDL.
= The reported concentration exceeds the selected SLV

Table 6-9b
Post-Removal Reference Area Clam Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, Metals, and Semivolatile Organic Compounds
(Page 1 of 3)

Area	Reference	Reference	Reference	Reference	Reference	Reference
Site ID	P22	P24	P26	P27	P28	P29
Sample ID	08030522TC	08030524TC	08030426TC	08030427TC	08030428TC	08022229TC
Sample Date	3/5/2008	3/5/2008	3/4/2008	3/4/2008	3/4/2008	2/22/2008
Percent Lipds	2.9	2.6	3.0	3.1	2.7	3.0
PCB Aroclors (µg/kg wet)						
Aroclor 1016	13.0 U	11.0 U	11.0 U	12.0 U	8.90 U	13.0 U
Aroclor 1221	14.0 U	14.0 U	14.0 U	8.20 U	9.60 U	16.0 U
Aroclor 1232	19.0 U	18.0 U	22.0 U	27.0 U	18.0 U	26.0 U
Aroclor 1242	13.0 U	7.90 U	11.0 U	12.0 U	12.0 U	13.0 U
Aroclor 1248	5.70 U	5.70 U	7.60 U	8.30 U	5.70 U	7.70 U
Aroclor 1254	**36.0**	**30.0**	**35.0**	**37.0**	**33.0**	**32.0**
Aroclor 1260	6.40 U	6.20 U	6.50 U	6.80 U	6.60 U	5.70 U
Aroclor 1262	9.30 U	7.20 U	7.70 U	7.80 U	7.50 U	8.00 U
Aroclor 1268	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Total PCBs as Aroclors (NDs at MDL) [1]	**36.0**	**30.0**	**35.0**	**37.0**	**33.0**	**32.0**
PCB Dioxin-Like Congeners (µg/kg wet)						
PCB 77	**0.0378**	**0.0338**	**0.0332**	**0.0343**	**0.0373**	**0.0364**
PCB 81	**0.00189**	**0.00204**	0.00143 EMPC	0.000961 EMPC	**0.00211**	**0.00207**
PCB 105	**0.438**	**0.399**	**0.350**	**0.370**	**0.434**	**0.406**
PCB 114	**0.0267**	**0.0228**	**0.0213**	**0.0242**	**0.0258**	**0.0236**
PCB 118	**2.42**	**2.22**	**1.91**	**2.13**	**2.66**	**2.14**
PCB 123	**0.0484**	**0.0423**	**0.0390**	**0.0421**	**0.0540**	**0.0403**
PCB 126	**0.00501**	**0.00444**	**0.00407**	**0.00451**	**0.00504**	**0.00405**
PCB 156	**0.138 C**	**0.126 C**	**0.137 C**	**0.149 C**	**0.152 C**	**0.125 C**
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**					
PCB 167	**0.149**	**0.127**	**0.151**	**0.167**	**0.170**	**0.130**
PCB 169	0.000809 U	0.000933 U	0.00153 U	0.00170 U	0.000872 U	0.000900 U
PCB 189	**0.00183**	**0.00175**	**0.00144**	0.00151 EMPC	**0.00185**	**0.00168**
Total PCBs as Congeners (KM, capped)	**30.8 J**	**28.3 J**	**31.6 J**	**32.9 J**	**31.3 J**	**29.7 J**
Metals (mg/kg wet)						
Aluminum	**34.3**	**50.4**	**46.5**	**52.2**	**39.8**	**16.8**
Antimony	**0.00500**	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
Arsenic	**2.53**	**2.03**	**2.51**	**2.46**	**2.32**	**2.22**
Barium	**1.79**	**2.11**	**1.77**	**1.80**	**2.17**	**1.89**
Beryllium	0.000400 U	**0.000900**	**0.00110**	0.000400 U	**0.000900**	0.000400 U
Cadmium	**0.307**	**0.275**	**0.377**	**0.370**	**0.340**	**0.254**
Chromium	**0.510**	**0.600**	**0.730**	**0.690**	**0.660**	**0.480**
Cobalt	**0.132**	**0.132**	**0.124**	**0.141**	**0.150**	**0.116**
Copper	**9.67**	**8.91**	**10.7**	**10.7**	**10.4**	**8.46**
Lead	**0.0660**	**0.0570**	**0.0570**	**0.0590**	**0.0570**	**0.0690**
Mercury	**0.0179**	**0.00600**	**0.0128**	**0.00890**	**0.0130**	**0.00760**
Methyl Mercury	**0.00990**	**0.00470**	**0.00490**	**0.00470**	**0.00520**	**0.00780**
Nickel	**0.311**	**0.405**	**0.338**	**0.347**	**0.347**	**0.408**
Thallium	**0.00590**	**0.00530**	**0.00650**	**0.00630**	**0.00560**	**0.00560**
Vanadium	**0.169**	**0.170**	**0.172**	**0.182**	**0.150**	**0.135**
Zinc	**18.7**	**19.9**	**21.0**	**20.2**	**19.4**	**19.8**
Semivolatile Organic Compounds (µg/kg wet)						
Bis(2-ethylhexyl) Phthalate	**310**	**320**	**430**	**680**	**340**	**680**
Butyl Benzyl Phthalate	7.30 U	7.30 U	7.30 U	**57.0 J**	7.30 U	7.30 U
Carbazole	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U
Di-n-butyl Phthalate	16.0 U	16.0 U	16.0 U	16.0 U	16.0 U	16.0 U
Di-n-octyl Phthalate	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U
p-cresol (4-Methylphenol)	**44.0**	**52.0**	**18.0 J**	**42.0**	**55.0**	**63.0**
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg wet)						
Acenaphthene	**0.710**	**0.480 J**	**0.730**	**0.450 J**	**0.510**	**1.20 J**
Anthracene	1.40 U	3.20 U	1.40 U	1.30 UJ	3.20 U	**1.80 J**
Fluorene	**2.00**	**1.50**	**2.00**	**1.60 J**	**1.50**	**3.10 J**
Phenanthrene	**9.10**	**6.70**	**9.00**	**8.10 J**	**7.50**	**14.0 J**
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg wet)						
Benzo(a)anthracene	18.0 U	3.70 U	26.0 U	15.0 UJ	7.30 U	12.0 UJ
Benzo(a)pyrene	0.410 U	0.410 U	0.410 U	0.410 UJ	0.410 U	0.410 UJ
Benzo(b)fluoranthene	0.350 U	0.350 U	0.350 U	0.350 UJ	0.350 U	0.350 UJ
Benzo(g,h,i)perylene	0.370 U	0.370 U	0.370 U	0.370 UJ	0.370 U	0.370 UJ
Benzo(k)fluoranthene	0.280 U	0.280 U	0.280 U	0.280 UJ	0.280 U	0.280 UJ
Chrysene	5.50 U	5.30 U	5.30 U	13.0 UJ	6.30 U	1.30 UJ
Dibenz(a,h)anthracene	0.300 U	0.300 U	0.300 U	0.300 UJ	0.300 U	0.300 UJ
Fluoranthene	**11.0**	**8.50**	**11.0**	**10.0 J**	**9.30**	**17.0 J**
Indeno(1,2,3-cd)pyrene	0.320 U	**1.70 J**	0.320 U	0.320 UJ	0.320 U	0.320 UJ
Pyrene	3.70 U	2.00 U	4.10 U	2.80 UJ	2.40 U	5.60 UJ

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
MDL = method detection limit
RDL = reported detection limit
ND = Non Detect
- = Not Analyzed
bold = analyte detected above MDL/RDL.
J = The reported value is an estimate.

[1] Only Aroclors 1254 was included in summing clam Total PCBs as Aroclors because all other aroclors were undected in Reference Area clam samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.

Table 6-9b
Post-Removal Reference Area Clam Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, Metals, and Semivolatile Organic Compounds
(Page 2 of 3)

Area	Reference	Reference	Reference	Reference	Reference	Reference
Site ID	P34	P35	P36	P37	P38	P39
Sample ID	08022534TC	08022535TC	08022536TC	08022637TC	08022738TC	08022739TC
Sample Date	2/25/2008	2/25/2008	2/25/2008	2/26/2008	2/27/2008	2/27/2008
Percent Lipds	2.8	3.6	3.5	3.1	3.2	3.2
PCB Aroclors (µg/kg wet)						
Aroclor 1016	12.0 U	9.50 U	8.40 U	9.70 U	15.0 U	15.0 U
Aroclor 1221	15.0 U	8.80 U	12.0 U	16.0 U	6.30 U	7.40 U
Aroclor 1232	23.0 U	28.0 U	19.0 U	29.0 U	35.0 U	33.0 U
Aroclor 1242	13.0 U	14.0 U	13.0 U	9.30 U	12.0 U	11.0 U
Aroclor 1248	6.40 U	9.10 U	9.90 U	9.90 U	9.40 U	9.60 U
Aroclor 1254	**32.0**	**37.0**	**38.0**	**35.0**	**37.0**	**38.0**
Aroclor 1260	5.90 U	7.70 U	7.60 U	7.30 U	8.10 U	7.50 U
Aroclor 1262	8.10 U	8.10 U	7.70 U	3.70 U	7.60 U	9.10 U
Aroclor 1268	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Total PCBs as Aroclors (NDs at MDL) [1]	**32.0**	**37.0**	**38.0**	**35.0**	**37.0**	**38.0**
PCB Dioxin-Like Congeners (µg/kg wet)						
PCB 77	**0.0361**	**0.0428**	**0.0443**	**0.0384**	**0.0371**	**0.0432**
PCB 81	0.00223 EMPC	**0.00260**	**0.00251**	0.00167 EMPC	0.00199 EMPC	0.00213 EMPC
PCB 105	**0.424**	**0.484**	**0.484**	**0.419**	**0.416**	**0.484**
PCB 114	**0.0246**	**0.0299**	**0.0272**	**0.0240**	**0.0233**	**0.0287**
PCB 118	**2.20**	**2.47**	**2.42**	**2.18**	**2.14**	**2.52**
PCB 123	**0.0384**	**0.0461**	**0.0439**	**0.0418**	**0.0368**	**0.0469**
PCB 126	**0.00403**	**0.00535**	**0.00519**	**0.00464**	**0.00474**	**0.00533**
PCB 156	**0.129 C**	**0.148 C**	**0.154 C**	**0.138 C**	**0.135 C**	**0.166 C**
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**					
PCB 167	**0.127**	**0.139**	**0.139**	**0.146**	**0.123**	**0.154**
PCB 169	0.000939 U	0.000901 U	0.00132 U	0.000698 U	0.000987 U	0.00101 U
PCB 189	**0.00198**	**0.00223**	**0.00240**	**0.00209**	**0.00195**	**0.00234**
Total PCBs as Congeners (KM, capped)	**30.4 J**	**34.5 J**	**33.7 J**	**30.2 J**	**28.6 J**	**34.3 J**
Metals (mg/kg wet)						
Aluminum	**29.2**	**12.0**	**17.1**	**14.5**	**20.6**	**19.9**
Antimony	**0.00400**	0.00500 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
Arsenic	**2.00**	**2.28**	**2.38**	**2.22**	**2.24**	**2.46**
Barium	**1.78**	**1.79**	**1.72**	**1.83**	**1.71**	**1.97**
Beryllium	**0.000400**	**0.000700**	0.000400 U	**0.000500**	0.000400 U	**0.000900**
Cadmium	**0.247**	**0.308**	**0.356**	**0.320**	**0.335**	**0.385**
Chromium	**0.490**	**0.450**	**0.470**	**0.540**	**0.460**	**0.570**
Cobalt	**0.121**	**0.100**	**0.0969**	**0.106**	**0.0974**	**0.104**
Copper	**8.18**	**9.57**	**9.61**	**10.1**	**9.50**	**10.4**
Lead	**0.0670**	**0.0660**	**0.0650**	**0.0650**	**0.0670**	**0.0670**
Mercury	**0.00850**	**0.0121**	**0.00610**	**0.00460**	**0.0113**	**0.00630**
Methyl Mercury	**0.00750**	**0.00610**	**0.00590**	**0.00610**	**0.00590**	**0.00610**
Nickel	**0.324**	**0.392**	**0.389**	**0.359**	**0.289**	**0.341**
Thallium	**0.00630**	**0.00820**	**0.00740**	**0.00640**	**0.00810**	**0.00660**
Vanadium	**0.188**	**0.0860**	**0.104**	**0.124**	**0.171**	**0.138**
Zinc	**20.5**	**22.9**	**23.2**	**20.3**	**21.7**	**23.0**
Semivolatile Organic Compounds (µg/kg wet)						
Bis(2-ethylhexyl) Phthalate	**440**	**510**	**510**	**400**	**480**	**350**
Butyl Benzyl Phthalate	7.30 U	7.30 U	7.30 U	**74.0 J**	7.30 U	7.30 U
Carbazole	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U
Di-n-butyl Phthalate	16.0 U	16.0 U	16.0 U	16.0 U	16.0 U	16.0 U
Di-n-octyl Phthalate	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U	11.0 U
p-cresol (4-Methylphenol)	**20.0 J**	**45.0**	**72.0**	**110**	**36.0 J**	**52.0**
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg wet)						
Acenaphthene	**0.610**	**0.650**	**1.00**	**0.910**	**0.530 J**	**0.590**
Anthracene	1.50 U	1.90 U	1.90 U	2.00 U	1.40 UJ	1.60 U
Fluorene	**1.90**	**2.40**	**2.70**	**2.70**	**1.90 J**	**2.10**
Phenanthrene	**9.40**	**12.0**	**12.0**	**13.0**	**9.30 J**	**10.0**
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg wet)						
Benzo(a)anthracene	16.0 U	22.0 U	26.0 U	27.0 U	20.0 UJ	27.0 U
Benzo(a)pyrene	0.410 U	0.410 U	0.410 U	0.410 U	0.410 UJ	0.410 U
Benzo(b)fluoranthene	0.350 U	0.350 U	0.350 U	0.350 U	0.350 UJ	0.350 U
Benzo(g,h,i)perylene	0.370 U	**0.500 J**	0.370 U	0.370 U	**0.850 J**	**1.40 J**
Benzo(k)fluoranthene	0.280 U	0.280 U	0.280 U	0.280 U	0.280 UJ	0.280 U
Chrysene	4.60 U	3.70 U	4.00 U	4.10 U	6.20 UJ	4.80 U
Dibenz(a,h)anthracene	0.300 U	0.300 U	0.300 U	0.300 U	0.300 UJ	0.300 U
Fluoranthene	**11.0**	**14.0**	**14.0**	**14.0**	**11.0 J**	**12.0**
Indeno(1,2,3-cd)pyrene	0.320 U	**1.40 J**	**0.830 J**	**0.800 J**	0.320 UJ	**1.50 J**
Pyrene	3.70 U	4.30 U	4.80 U	4.60 U	3.70 UJ	3.80 U

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
MDL = method detection limit
RDL = reported detection limit
ND = Non Detect
- = Not Analyzed
bold = analyte detected above MDL/RDL.
J = The reported value is an estimate.

[1] Only Aroclors 1254 was included in summing clam Total PCBs as Aroclors because all other aroclors were undected in Reference Area clam samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.

Table 6-9b
Post-Removal Reference Area Clam Tissue Analytical Results
PCB Aroclors, PCB Dioxin-Like Congeners, Metals, and Semivolatile Organic Compounds
(Page 3 of 3)

Area	Reference	Reference	Reference	Reference	Reference	Reference
Site ID	P40	P41	P42	P85	P86	P87
Sample ID	08022740TC	08022741TC	08022742TC	08030685TC	08030686TC	08030687TC
Sample Date	2/27/2008	2/27/2008	2/27/2008	3/6/2008	3/6/2008	3/6/2008
Percent Lipds	3.3	3.3	3.1	2.8	2.7	3.1
PCB Aroclors (µg/kg wet)						
Aroclor 1016	12.0 U	14.0 U	12.0 U	14.0 U	12.0 U	9.50 U
Aroclor 1221	12.0 U	7.50 U	16.0 U	12.0 U	9.10 U	9.20 U
Aroclor 1232	22.0 U	31.0 U	20.0 U	28.0 U	24.0 U	26.0 U
Aroclor 1242	9.70 U	14.0 U	9.40 U	9.90 U	9.20 U	9.50 U
Aroclor 1248	8.70 U	8.90 U	8.20 U	9.90 U	7.10 U	5.50 U
Aroclor 1254	**37.0**	**39.0**	**35.0**	**34.0**	**31.0**	**33.0**
Aroclor 1260	6.90 U	7.70 U	7.50 U	6.70 U	6.20 U	6.60 U
Aroclor 1262	9.90 U	7.80 U	9.10 U	8.20 U	7.90 U	8.40 U
Aroclor 1268	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Total PCBs as Aroclors (NDs at MDL) [1]	**37.0**	**39.0**	**35.0**	**34.0**	**31.0**	**33.0**
PCB Dioxin-Like Congeners (µg/kg wet)						
PCB 77	**0.0463**	**0.0468**	**0.0414**	**0.0408**	**0.0384**	**0.0357**
PCB 81	**0.00275**	**0.00221**	**0.00203**	0.00188 EMPC	**0.00180**	0.00151 EMPC
PCB 105	**0.535**	**0.556**	**0.488**	**0.478**	**0.440**	**0.414**
PCB 114	**0.0308**	**0.0330**	**0.0281**	**0.0271**	**0.0249**	**0.0247**
PCB 118	**2.77**	**2.82**	**2.53**	**2.64**	**2.29**	**2.27**
PCB 123	**0.0532**	**0.0506**	**0.0438**	**0.0500**	**0.0412**	**0.0409**
PCB 126	**0.00564**	**0.00536**	**0.00512**	0.00588 U	**0.00446**	**0.00451**
PCB 156	**0.158 C**	**0.161 C**	**0.145 C**	**0.137 C**	**0.123 C**	**0.125 C**
PCB 157	**PCB 156 and 157 are coeluting congeners and are represented with one concentration.**					
PCB 167	**0.146**	**0.146**	**0.137**	**0.165**	**0.123**	**0.131**
PCB 169	0.00125 U	0.00103 U	0.00101 U	0.00173 U	0.00117 U	0.00157 U
PCB 189	**0.00241**	**0.00237**	**0.00217**	**0.00201**	**0.00171**	**0.00172**
Total PCBs as Congeners (KM, capped)	**32.9 J**	**32.8 J**	**29.7 J**	**30.7 J**	**27.0 J**	**26.9 J**
Metals (mg/kg wet)						
Aluminum	**11.5**	**16.9**	**8.00**	**36.3**	**26.7**	**83.4**
Antimony	0.00400 U	**0.00800**	0.00400 U	0.00400 U	0.00400 U	0.00400 U
Arsenic	**2.41**	**2.44**	**2.26**	**2.62**	**2.09**	**2.01**
Barium	**1.82**	**1.71**	**1.87**	**1.81**	**2.02**	**2.38**
Beryllium	0.000400 U	**0.000800**	0.000400 U	0.000400 U	0.000400 U	**0.00140**
Cadmium	**0.363**	**0.347**	**0.353**	**0.405**	**0.298**	**0.328**
Chromium	**0.470**	**0.490**	**0.470**	**0.760**	**0.570**	**0.460**
Cobalt	**0.0929**	**0.0965**	**0.0902**	**0.129**	**0.138**	**0.147**
Copper	**9.94**	**9.65**	**9.10**	**11.6**	**9.24**	**9.67**
Lead	**0.0570**	**0.0600**	**0.0490**	**0.0530**	**0.0550**	**0.0720**
Mercury	**0.00620**	**0.00720**	**0.00510**	**0.00710**	**0.00640**	**0.0135**
Methyl Mercury	**0.00160**	**0.00550**	**0.00140**	**0.00320**	**0.00460**	**0.00500**
Nickel	**0.273**	**0.289**	**0.402**	**0.346**	**0.333**	**0.482**
Thallium	**0.00660**	**0.0105**	**0.00570**	**0.00610**	**0.00650**	**0.00800**
Vanadium	**0.0840**	**0.104**	**0.0740**	**0.150**	**0.127**	**0.286**
Zinc	**22.4**	**21.3**	**22.1**	**18.5**	**21.0**	**22.2**
Semivolatile Organic Compounds (µg/kg wet)						
Bis(2-ethylhexyl) Phthalate	**460**	**390**	**600**	**330**	**370**	**390**
Butyl Benzyl Phthalate	7.30 U	7.30 U	**57.0 J**	7.30 U	7.30 U	7.30 U
Carbazole	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U	9.10 U
Di-n-butyl Phthalate	16.0 U	16.0 UJ	16.0 U	35.0 U	48.0 U	16.0 U
Di-n-octyl Phthalate	11.0 U	11.0 UJ	11.0 U	11.0 U	11.0 U	11.0 U
p-cresol (4-Methylphenol)	**52.0**	**60.0**	**30.0 J**	**38.0**	**13.0 J**	**35.0 J**
Low Molecular Weight Polycyclic Aromatic Hydrodarbons (LPAHs) (µg/kg wet)						
Acenaphthene	**0.270 J**	**0.330 J**	**0.810 J**	**0.670**	**0.470**	**0.720**
Anthracene	1.60 U	1.30 UiJ	**0.850 J**	1.50 U	2.90 U	1.40 U
Fluorene	**2.00**	**1.80**	**2.30 J**	**1.90**	**1.80**	**2.20**
Phenanthrene	**8.30**	**8.80**	**8.80 J**	**8.60**	**8.20**	**10.0**
High Molecular Weight Polycyclic Aromatic Hydrodarbons (HPAHs) (µg/kg wet)						
Benzo(a)anthracene	21.0 U	26.0 UiJ	20.0 UJ	20.0 U	8.50 U	22.0 U
Benzo(a)pyrene	0.410 U	0.410 U	0.410 UJ	0.410 U	0.410 U	0.410 U
Benzo(b)fluoranthene	0.350 U	0.350 U	0.350 UJ	0.350 U	0.350 U	0.350 U
Benzo(g,h,i)perylene	**1.40 J**	**0.600 J**	0.370 UJ	0.370 U	0.370 U	0.370 U
Benzo(k)fluoranthene	0.280 U	0.280 U	0.280 UJ	0.280 U	0.280 U	0.280 U
Chrysene	5.80 U	5.10 UiJ	6.50 UJ	5.80 U	5.10 U	5.20 U
Dibenz(a,h)anthracene	0.300 U	0.300 U	0.300 UJ	0.300 U	0.300 U	0.300 U
Fluoranthene	**13.0**	**12.0**	**13.0 J**	**11.0**	**12.0**	**13.0**
Indeno(1,2,3-cd)pyrene	**2.00 J**	**1.80 J**	0.320 UJ	0.320 U	0.320 U	0.320 U
Pyrene	3.30 U	3.50 UiJ	4.00 UJ	2.90 U	3.20 U	4.10 U

Notes:
µg/kg = microgram per kilogram
mg/kg = milligram per kilogram
MDL = method detection limit
RDL = reported detection limit
ND = Non Detect
- = Not Analyzed
bold = analyte detected above MDL/RDL.
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[1] Only Aroclors 1254 was included in summing clam Total PCBs as Aroclors because all other aroclors were undected in Reference Area clam samples.
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
U = The analyte was not detected at or above the MDL (except PCB congeners).
For PCB congeners, the analyte was not detected at or above the RDL/EMPC.
UJ = The analyte was not detected. The reported MDL (non-congeners) or RDL/EMPC (congeners) is an estimate.
EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.

Table 7-1
Upland OU Limited and Estimated Data Sets
Bradford Island Remedial Investigation

	Limited Data Set (Sample Size less than 8)	High Proportion of Estimated Data		
		Majority of Detected Data is Estimated (J-flagged)[1]	Majority of Detected Data is Estimated (J-flagged)[1] ***AND*** MRL is > HH SLV	Majority of Detected Data is Estimated (J-flagged)[1] ***AND*** MRL is > Eco SLV
Landfill AOPC				
Soil (0-1 ft bgs)	Dibutyltin, monobutyltin, tetrabutyltin, tributyltin, 4-nitrophenol, pentachlorophenol, chlordane (technical), and total benzofluoranthenes	1 metal, 3 SVOCs, 3 VOCs	NA	Butyl benzyl phthalate and ethylbenzene
Soil (0-3 ft bgs)	4-Nitrophenol, pentachlorophenol, chlordane (technical), and total benzofluoranthenes	2 metals, 4 SVOCs, 4 VOCs	Thallium and dibenz(a,h)anthracene	Selenium, butyl benzyl phthalate, and ethylbenzene
Soil (0-10 ft bgs)	-	3 metals, GRO, 6 SVOCs, 7 VOCs	Thallium and dibenz(a,h)anthracene	NA
Mass Wasting Soil Subset	All herbicides, TPHs, and VOCs; & aniline	4 SVOCs, 1 VOC	-	Dibenzofuran
Groundwater	Dissolved antimony, barium, beryllium, cadmium, chromium, copper, nickel, selenium, silver, thallium, and zinc	4 metals (total), 1 metal (dissolved), 1 pesticide, GRO, 3 SVOCs, 3 VOCs	Total antimony and thallium; dieldrin; GRO 1,4-dichlorobenzene; and vinyl chloride	Lead (dissolved) and dieldrin
Seep Water	All analytes	1 metal (total), 3 metals (dissolved), DRO	DRO	-
Surface Water	All analytes	3 metals (dissolved), DRO	DRO	-
Sandblast AOPC				
Soil (0-1 ft bgs)	-	5 metals, 12 pesticides, GRO, 14 SVOCs, 26 VOCs	NA	Antimony, selenium, aldrin, dieldrin, endrin aldehyde, endrin ketone, dibenzofuran, di-n butyl phthalate, and pentachlorophenol
Soil (0-3 ft bgs)	-	5 metals, 12 pesticides, GRO, 13 SVOCs, 26 VOCs	Thallium, 1,1-dichloroethane, benzene, chloroform, and trichloroethene (TCE)	Antimony, selenium, aldrin, dieldrin, endrin aldehyde, endrin ketone, dibenzofuran, di-n butyl phthalate, pentachlorophenol, and ethylbenzene
Soil (0-10 ft bgs)	-	5 metals, 12 pesticides, GRO, 14 SVOCs, 25 VOCs	Thallium, 1,1-dichloroethane, benzene, chloroform, and trichloroethene (TCE)	NA
Soil (>10 ft bgs)	All analytes	4 metals, 1 butyltin, 4 SVOCs, 8 VOCS	Thallium	NA

Table 7-1
Upland OU Limited and Estimated Data Sets
Bradford Island Remedial Investigation

	Limited Data Set (Sample Size less than 8)	High Proportion of Estimated Data		
		Majority of Detected Data is Estimated (J-flagged)[1]	Majority of Detected Data is Estimated (J-flagged)[1] *AND* MRL is > HH SLV	Majority of Detected Data is Estimated (J-flagged)[1] *AND* MRL is > Eco SLV
Erodible Soil Subset	All metals, butyltins, pesticides, PCBs, SVOCs, & DRO and RRO	2 metals, 4 pesticides, DRO, GRO, 4 SVOCs, 15 VOCs	Dibenz(a,h)anthracene	Selenium
Groundwater	Dissolved calcium, magnesium, potassium, and sodium; & the majority of VOCs	1 butyltin, DRO, GRO, 2 SVOCs, 7 VOCs, 1 metal (dissolved)	Potassium (dissolved), DRO, GRO, benzo(b)fluoranthene, chloroform, and vinyl chloride	Monobutyltin
DP Groundwater	All butyltins, pesticides, PCBs, and TPHs; & the following total and dissolved SVOCs: 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, 2,4-dichlorophenol, 2,4-dimethylphenol, 2,4-dinitrophenol, 2-chlorophenol, 2-methylphenol, 2-nitrophenol, 4,6-dinitro-2-methylphenol, 4-chloro-3-methylphenol, 4-nitrophenol, benzoic acid, benzyl alcohol, p-cresol (4-methylphenol), pentachlorophenol, and phenol (dissolved only)	8 metals (total), 10 metals (dissolved), 1 pesticide, RRO, GRO, 18 SVOCs (total), 15 SVOCs (dissolved), 19 VOCs	Total & dissolved thallium and vanadium; RRO; total SVOCs benzo(a)pyrene, benzofluoranthenes (total), bis(2-ethylhexyl) phthalate, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, and naphthalene; dissolved SVOCs benzo(a)pyrene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene; and total VOCs 2,2-dichloropropane, benzene, chloroform, naphthalene, trichloroethene (TCE), and vinyl chloride	Dissolved aluminum and cadmium; total SVOCs benzo(a)pyrene and benzofluoranthenes (total); dissolved SVOC benzo(a)pyrene; and total VOC carbon disulfide
Soil Gas	All VOCs	15 VOCs	-	NA
Pistol Range AOPC				
Soil (0-1 ft bgs)	Antimony and arsenic	-	-	-
DP Groundwater	All analytes	1 metal (total), 2 metals (dissolved	-	-
Lagoon Sediment	All analytes	-	-	-
Bulb Slope AOPC				
Soil (0-1 ft bgs)	-	-	-	-
All Four AOPC Combined				
Soil (0-1 ft bgs)	-	5 metals, 12 pesticides, GRO, 12 SVOCs, 26 VOCs	NA	Antimony, selenium, aldrin, dieldrin, endrin aldehyde, endrin ketone, butyl benzyl phthalate, dibenzofuran, di-n-butyl phthalate, pentachlorophenol, and ethylbenzene
Soil (0-3 ft bgs)	-	5 metals, 12 pesticides, GRO, 11 SVOCs, 26 VOCs	Thallium, 1,1-dichloroethane, benzene, chloroform,and trichloroethene (TCE)	Antimony, selenium, aldrin, dieldrin, endrin ketone, butyl benzyl phthalate, dibenzofuran, pentachlorophenol, and ethylbenzene

Table 7-1
Upland OU Limited and Estimated Data Sets
Bradford Island Remedial Investigation

	Limited Data Set (Sample Size less than 8)	High Proportion of Estimated Data		
		Majority of Detected Data is Estimated (J-flagged)[1]	Majority of Detected Data is Estimated (J-flagged)[1] ***AND*** MRL is > HH SLV	Majority of Detected Data is Estimated (J-flagged)[1] ***AND*** MRL is > Eco SLV
Soil (0-10 ft bgs)	-	5 metals, 12 pesticides, GRO, 11 SVOCs, 27 VOCs	Thallium, 1,1-dichloroethane, benzene, chloroform, and trichloroethene (TCE)	NA
Groundwater	Dissolved antimony, barium, beryllium, cadmium, chromium, copper, nickel, selenium, silver, thallium, and zinc	5 metals (total), 1 pesticide, GRO, 7 SVOCs, 9 VOCs	Total antimony and thallium; dieldrin; GRO 1,4-dichlorobenzene; chloroform; and vinyl chloride	Dieldrin
DP Groundwater	All butyltins, PCBs, TPHs, pesticides; & the following total and dissovled SVOCs: 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, 2,4-dichlorophenol, 2,4-dimethylphenol, 2,4-dinitrophenol, 2-chlorophenol, 2-methylphenol, 2-nitrophenol, 4,6-dinitro-2-methylphenol, 4-chloro-3-methylphenol, 4-nitrophenol, benzoic acid, benzyl alcohol, p-cresol, pentachlorophenol, and phenol (dissolved only)	8 metals (total), 10 metals (dissolved), RRO, GRO, 1 pesticide, 18 SVOCs (total), 15 SVOCs (dissolved), 19 VOCs	Total & dissolved thallium and vanadium; RRO; total SVOCs benzo(a)pyrene, benzofluoranthenes (total), bis(2-ethylhexyl) phthalate, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, and naphthalene; dissolved SVOCs benzo(a)pyrene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene; and total VOCs benzene, chloroform, naphthalene, trichloroethene (TCE), and vinyl chloride	Dissolved aluminum and cadmium; total SVOCs benzo(a)pyrene and benzofluoranthenes (total); dissolved SVOC benzo(a)pyrene; and total VOC carbon disulfide
Reerence Area				
Soil (0-1 ft bgs)	-	1 metal, 7 SVOCs	NA	NA
Groundwater	All analytes	5 metals (total), 5 metals (dissolved), 1 butyltin, 1 SVOC,	NA	NA

Notes:
1) Detected analytes are listed if they were estimated (J-flagged) in 50% or more of the total number of detected samples
* Analytes were listed, but there is no SLV available

DRO = diesel range organic
Eco = Ecological
GRO = gasoline range organic
HH = Human health
NA = not applicable
RRO = residual range organic
SLV = screening level value

Table 7-2
River OU Limited and Estimated Data Sets
Bradford Island Remedial Investigation

		High Proportion of Estimated Data		
	Limited Data Set (Sample Size less than 8)	**Majority of Detected Data is Estimated (J-flagged)[1]**	**Majority of Detected Data is Estimated (J-flagged)[1] *AND* MRL is > HH SLV**	**Majority of Detected Data is Estimated (J-flagged)[1] *AND* MRL is > Eco SLV**
Pre-Removal Sediment Forebay				
Sediment	All analytes	DRO, RRO, 17 SVOCs	-	Anthracene and benzo(a)pyrene
Clam	All analytes	1 metal, 1 SVOC	NA	-
Random Forebay				
Surface Water	All analytes	2 metals (total) 3 metals (dissolved), DRO	Dissolved cadmium; and total & dissolved DRO	Dissolved cadmium
Sediment	-	DRO, RRO, Aroclor 1254, 14 SVOCs	Aroclor 1254	Aroclor 1254
Clam	-	2 metals, 9 SVOCs	NA	-
Crayfish	-	1 metal, 13 SVOCs	Benzo(a)pyrene and bis(2-ethylhexyl) phthalate	-
Sculpin	-	-	NA	-
Smallmouth Bass	-	1 metal, 10 SVOCs	Benzo(b)fluoranthene, bis(2-ethylhexyl) phthalate, and dibenz(a,h)anthracene	Bis(2-ethylhexyl) phthalate
Largescale Sucker	All analytes	1 metal, 4 SVOCs	Dibenz(a,h)anthracene	-
Targeted Forebay - Eagle Creek				
Sediment	All analytes	2 metals, DRO, 10 SVOCs	-	-
Targeted Forebay - Goose Island				
Sediment	All analytes	DRO, Aroclor 1254, 13 SVOCs	Aroclor 1254	Aroclor 1254
Clam	All analytes	1 metal, 2 SVOCs	NA	-
Crayfish	All analytes	2 metals, 5 SVOCs	-	-
Downstream				
Sediment	All analytes	DRO, RRO, 14 SVOCs,	-	-
Reference Area				
Surface Water	All analytes	4 metals (dissolved), 5 metals (total), DRO and RRO (total & dissolved)	NA	NA
Sediment	-	DRO, RRO, 15 SVOCs	NA	NA
Clam	-	2 metals, 4 SVOCs	NA	NA
Crayfish	-	1 metal, 13 SVOCs	NA	NA
Sculpin	-	-	NA	NA
Smallmouth Bass	-	3 metals, Aroclor 1242, 4 SVOCs	NA	NA

Table 7-2
River OU Limited and Estimated Data Sets
Bradford Island Remedial Investigation

Notes:
1) Detected analytes are listed if they were estimated (J-flagged) in 50% or more of the total number of detected samples
* Analytes were listed, but there is no SLV available

DRO = diesel range organic
Eco = Ecological
GRO = gasoline range organic
HH = Human health
NA = not applicable
RRO = residual range organic
SLV = screening level value

Table 7-3
Upland OU Non-detects Above SLVs
Bradford Island Remedial Investigation

	100% NDs with MDLs > HH SLV	< 100% NDs with MDLs > HH SLV	100% NDs with MDLs > Eco SLV	< 100% NDs with MDLs > Eco SLV
Landfill AOPC				
Soil (0-1 ft bgs)	NA	NA	Herbicides 2,4,5-TP (silvex), 2,4-D, 2,4-DB, and MCPA; pesticides 4,4'-DDD, endrin aldehyde, endrin ketone, and endrin; SVOC di-n-octyl phthalate; and VOCs 1,2-dichlorobenzene, 1,3-dichlorobenzene, isopropylbenzene, n-propylbenzene, sec-butylbenzene, and tert-butylbenzene	Antimony, mercury, and selenium; herbicides 2,4,5-T, dichloroprop, and MCPP; pesticide dieldrin; and SVOCs dibenzofuran, di-n-butyl phthalate, and dibenz(a,h)anthracene
Soil (0-3 ft bgs)	N-Nitrosodimethylamine, N-nitrosodi-n-propylamine, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane (EDB), 1,2-dichloroethane (EDC), benzene, bromochloromethane, bromodichloromethane, carbon tetrachloride, chloroform, trichloroethene (TCE), and vinyl chloride	Thallium and dibenz(a,h)anthracene	Herbicides 2,4,5-TP (silvex), 2,4-D, 2,4-DB, and MCPA; pesticides 4,4'-DDD, endrin aldehyde, endrin ketone, and endrin; SVOC di-n-octyl phthalate; and VOCs 1,2-dichlorobenzene, 1,3-dichlorobenzene, isopropylbenzene, n-propylbenzene, sec-butylbenzene, and tert-butylbenzene	Antimony, mercury, and selenium; herbicides 2,4,5-T, dichloroprop, and MCPP; pesticide dieldrin; and SVOCs dibenzofuran, di-n-butyl phthalate, and dibenz(a,h)anthracene
Soil (0-10 ft bgs)	N-nitrosodimethylamine, N-nitrosodi-n-propylamine, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane (EDB), 1,2-dichloroethane (EDC), benzene, bromochloromethane, bromodichloromethane, carbon tetrachloride, chloroform, trichloroethene (TCE), and vinyl chloride	Thallium and dibenz(a,h)anthracene	NA	NA
Mass Wasting Soil Subset	N-Nitrosodimethylamine, N-nitrosodi-n-propylamine, 1,2,3-trichloropropane, and 1,2-dibromo-3-chloropropane	Thallium	Antimony; herbicides 2,4,5-T, 2,4,5-TP (Silvex), 2,4-D, 2,4-DB, dichloroprop, MCPA, and MCPP; and pesticides endrin aldehyde, endrin ketone, and endrin	Dieldrin and dibenzofuran

Table 7-3
Upland OU Non-detects Above SLVs
Bradford Island Remedial Investigation

	100% NDs with MDLs > HH SLV	< 100% NDs with MDLs > HH SLV	100% NDs with MDLs > Eco SLV	< 100% NDs with MDLs > Eco SLV
Groundwater	Dissolved antimony and thallium; herbicides MCPA and MCPP; pesticides 4,4'-DDD, 4,4'-DDT, aldrin, BHC (alpha), BHC (beta), BHC (delta), chlordane (alpha), chlordane (gamma), chlordane (technical), dieldrin, endrin ketone, endrin, heptachlor epoxide, heptachlor, and toxaphene; all PCBs as Aroclors; SVOCs 1,2,4-trichlorobenzene, 1,3-dichlorobenzene, 2,4,6-trichlorophenol, 2,4-dinitrotoluene, 3,3'-dichlorobenzidine, 3-nitroaniline, 4,6-dinitro-2-methylphenol, 4-chloroaniline, 4-nitroaniline, acenaphthylene, benzidine, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, benzofluoranthenes (total), bis(2-chloroethyl) ether, chrysene, dibenz(a,h)anthracene, hexachlorobenzene, hexachlorobutadiene, hexachloroethane, Indeno(1,2,3-cd)pyrene, nitrobenzene, N-nitrosodimethylamine, N-nitrosodi-n-propylamine, N-nitrosodiphenylamine, and pentachlorophenol; and VOCs 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,1-dichloropropene, 1,2,3-trichloropropane, 1,2,4-trichlorobenzene, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane (EDB), 1,2-dichloroethane (EDC), 1,2-dichloropropane, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 2,2-dichloropropane, benzene, bromochloromethane, bromodichloromethane, cis-1,3-dichloropropene, dibromochloromethane, dichloromethane, hexachlorobutadiene, naphthalene, trans-1,3-dichloropropene, and trichloroethene (TCE)	Total antimony, arsenic, and thallium and dissolved arsenic; pesticide 4,4'-DDE; DRO and RRO; SVOCs 1,4-dichlorobenzene, bis(2-ethylhexyl) phthalate, di-n-octyl phthalate, naphthalene; and VOCs carbon tetrachloride, chloroform, tetrachloroethene (PCE), and vinyl chloride	Dissolved cadmium, copper, and silver; herbicides dinoseb and MCPA; all PCBs as Aroclors; pesticides 4,4'-DDD, 4,4'-DDT, chlordane (alpha), chlordane (gamma), chlordane (technical), endosulfan II, endosulfan sulfate, endrin, heptachlor epoxide, heptachlor, methoxychlor, and toxaphene; SVOCs 2,4,5-trichlorophenol, 2,4-dinitrophenol, 3,3'-dichlorobenzidine, 4-bromophenyl phenyl ether, aniline, benzidine, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, benzofluoranthenes (total), benzyl alcohol, chrysene, dibenz(a,h)anthracene, dibenzofuran, fluoranthene, fluorene, hexachlorobenzene, hexachlorobutadiene, hexachlorocyclopentadiene, indeno(1,2,3-cd)pyrene, and pentachlorophenol; VOCs cis-1,3-dichloropropene and trans-1,3-dichloropropene	Dissolved lead; pesticides 4,4'-DDEand dieldrin; SVOCs benzoic acid, bis(2-ethylhexyl) phthalate, dimethyl phthalate, and phenanthrene; and VOC carbon disulfide

Table 7-3
Upland OU Non-detects Above SLVs
Bradford Island Remedial Investigation

	100% NDs with MDLs > HH SLV	< 100% NDs with MDLs > HH SLV	100% NDs with MDLs > Eco SLV	< 100% NDs with MDLs > Eco SLV
Seep Water	Total & dissolved thallium; herbicides MCPA and MCPP; pesticides 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, aldrin, BHC (alpha), BHC (beta), BHC (delta), chlordane (alpha), chlordane (gamma), dieldrin, endrin, heptachlor epoxide, heptachlor, and toxaphene; all PCBs as Aroclors; GRO; SVOCs 1,2,4-trichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 2,4,6-trichlorophenol, 2,4-dinitrotoluene, 3,3'-dichlorobenzidine, 3-nitroaniline, 4,6-dinitro-2-methylphenol, 4-chloroaniline, 4-nitroaniline, acenaphthylene, benzidine, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, bis(2-chloroethyl) ether, bis(2-ethylhexyl) phthalate, chrysene, dibenz(a,h)anthracene, di-n-octyl phthalate, hexachlorobenzene, hexachlorobutadiene, hexachloroethane, indeno(1,2,3-cd)pyrene, naphthalene, nitrobenzene, N-nitrosodimethylamine, N-nitrosodi-n-propylamine, N-nitrosodiphenylamine, and pentachlorophenol; and VOCs 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,1-dichloropropene, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane (EDB), 1,2-dichloroethane (EDC), 1,2-dichloropropane, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 2,2-dichloropropane, benzene, bromochloromethane, bromodichloromethane, carbon tetrachloride, cis-1,3-dichloropropene, dibromochloromethane, dichloromethane, hexachlorobutadiene, naphthalene, tetrachloroethene (PCE), trans-1,3-dichloropropene, and vinyl chloride	Total & dissolved arsenic; DRO and RRO; and VOCs chloroform and tetrachloroethene (PCE)	Dissolved cadmium, mercury, and silver; herbicides dinoseb and MCPA; all PCBs as Aroclors; pesticides 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, chlordane (alpha), chlordane (gamma), dieldrin, endosulfan sulfate, endrin, heptachlor epoxide, heptachlor, methoxychlor, and toxaphene; SVOCs 3,3'-dichlorobenzidine, 4-bromophenyl phenyl ether, aniline, benzidine, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, bis(2-ethylhexyl) phthalate, chrysene, dibenz(a,h)anthracene, dibenzofuran, dimethyl phthalate, fluorene, hexachlorobenzene, and indeno(1,2,3-cd)pyrene; and VOCs 1,1-dichloropropene, carbon disulfide, cis-1,3-dichloropropene, and trans-1,3-dichloropropene	-
Surface Water	Tetrachloroethene (PCE) and vinyl chloride	Arsenic and DRO	-	-

Table 7-3
Upland OU Non-detects Above SLVs
Bradford Island Remedial Investigation

	100% NDs with MDLs > HH SLV	< 100% NDs with MDLs > HH SLV	100% NDs with MDLs > Eco SLV	< 100% NDs with MDLs > Eco SLV
Sandblast AOPC				
Soil (0-1 ft bgs)	NA	NA	-	Antimony, 4,4'-DDT, aldrin, dieldrin, endrin aldehyde, endrin ketone, endrin, dibenzofuran, and di-n-butyl phthalate
Soil (0-3 ft bgs)	Toxaphene, N-nitrosodimethylamine, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane (EDB), 1,2-dichloroethane (EDC), bromodichloromethane, carbon tetrachloride, and vinyl chloride	Benzene and chloroform	1,2-Dichlorobenzene	Antimony, 4,4'-DDT, aldrin, dieldrin, endrin aldehyde, endrin ketone, endrin, dibenzofuran, di-n-butyl phthalate, isopropylbenzene, and n-propylbenzene
Soil (0-10 ft bgs)	Toxaphene, N-nitrosodimethylamine, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane (EDB), 1,2-dichloroethane (EDC), bromodichloromethane, carbon tetrachloride, and vinyl chloride	Benzene and chloroform	NA	NA
Soil (>10 ft bgs)	-	-	NA	NA
Erodible Soil Subset	N-Nitrosodimethylamine and 1,2-dibromo-3-chloropropane	-	Dibenzofuran	-
Groundwater	SVOC benzo(k)fluoranthene; and VOCs 1,1,2,2-tetrachloroethane, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane (EDB), and 2,2-dichloropropane	DRO; SVOC benzo(b)fluoranthene; and VOCs chloroform, tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride	trans-1,3-Dichloropropene	-
DP Groundwater	Pesticides 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, aldrin, dieldrin, heptachlor epoxide, heptachlor, and toxaphene; all PCBs as Aroclors; total and dissolved SVOCs 3,3'-dichlorobenzidine, benzidine, benzo(a)anthracene, total benzofluoranthenes (dissolved only), benzo(g,h,i)perylene, bis(2-chloroethyl) ether, chrysene, hexachlorobenzene, N-nitrosodimethylamine, and N-nitrosodi-n-propylamine; and VOCs 1,1,2,2-tetrachloroethane, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, and 1,2-dibromoethane (EDB)	Total arsenic and dissolved vanadium; total and dissolved SVOCs benzo(a)pyrene, total benzofluoranthenes (total only), dibenz(a,h)anthracene; and VOCs naphthalene, trichloroethene (TCE), and vinyl chloride	Toxaphene and total & dissolved hexachlorobenzene	Carbon disulfide

Table 7-3
Upland OU Non-detects Above SLVs
Bradford Island Remedial Investigation

	100% NDs with MDLs > HH SLV	< 100% NDs with MDLs > HH SLV	100% NDs with MDLs > Eco SLV	< 100% NDs with MDLs > Eco SLV
Soil Gas	1,2-Dibromoethane (EDB) and hexachlorobutadiene	-	NA	NA
Pistol Range AOPC				
Soil (0-1 ft bgs)	Arsenic	-	Antimony	-
DP Groundwater	-	-	-	-
Lagoon Sediment	-	-	-	-
Bulb Slope AOPC				
Soil (0-1 ft bgs)	-	-	-	-

Notes:

DRO = diesel range organic
Eco = Ecological
GRO = gasoline range organic
HH = Human health
NA = not applicable
RRO = residual range organic
SLV = screening level value

Table 7-4
Upland OU Non-detects Without SLVs
Bradford Island Remedial Investigation

	100% NDs without HH SLVs	< 100% NDs without HH SLVs	100% NDs without Eco SLVs	< 100% NDs without Eco SLVs
Landfill AOPC				
Soil (0-1 ft bgs)	NA	NA	Herbicides dalapon, dicamba, and dinoseb; SVOCs 2,4-dinitrotoluene, 2,6-dinitrotoluene, 2-chloronaphthalene, 2-nitroaniline, 2-nitrophenol, 3,3'-dichlorobenzidine, 4,6-dinitro-2-methylphenol, 4-bromophenyl phenyl ether, 4-chloro-3-methylphenol, 4-chlorophenyl phenyl ether, benzidine, bis(2-chloroethyl) ether, bis(2-chloroisopropyl) ether, hexachlorobutadiene, hexachloroethane, isophorone, N-nitrosodimethylamine, and N-nitrosodi-n-propylamine; and VOCs 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,1-dichloropropene, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane (EDB), 1,3-dichloropropane, 2,2-dichloropropane, 2-chlorotoluene, 4-chlorotoluene, bromobenzene, bromoform, chloroethane, cis-1,3 dichloropropene, hexachlorobutadiene, n-butylbenzene, trans-1,3-dichloropropene, and vinyl acetate	DRO, RRO and GRO
Soil (0-3 ft bgs)	4-Bromophenyl phenyl ether, 4-chlorophenyl phenyl ether, n-butylbenzene, sec-butylbenzene, and tert-butylbenzene	-	Herbicides dalapon, dicamba, and dinoseb; SVOCs 2,4-dinitrotoluene, 2,6-dinitrotoluene, 2-chloronaphthalene, 2-nitroaniline, 2-nitrophenol, 3,3'-dichlorobenzidine, 4,6-dinitro-2-methylphenol, 4-bromophenyl phenyl ether, 4-chloro-3-methylphenol, 4-chlorophenyl phenyl ether, benzidine, bis(2-chloroethyl) ether, bis(2-chloroisopropyl) ether, hexachlorobutadiene, hexachloroethane, isophorone, N-nitrosodimethylamine, and N-nitrosodi-n-propylamine; and VOCs 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,1-dichloropropene, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane (EDB), 1,3-dichloropropane, 2,2-dichloropropane, 2-chlorotoluene, 4-chlorotoluene, bromobenzene, bromoform, chloroethane, cis-1,3 dichloropropene, hexachlorobutadiene, n-butylbenzene, trans-1,3-dichloropropene, and vinyl acetate	DRO, RRO and GRO
Soil (0-10 ft bgs)	4-Bromophenyl phenyl ether, 4-chlorophenyl phenyl ether, n-butylbenzene, sec-butylbenzene, and tert-butylbenzene	-	NA	NA

Table 7-4
Upland OU Non-detects Without SLVs
Bradford Island Remedial Investigation

	100% NDs without HH SLVs	< 100% NDs without HH SLVs	100% NDs without Eco SLVs	< 100% NDs without Eco SLVs
Mass Wasting Soil Subset	4-Bromophenyl phenyl ether, 4-chlorophenyl phenyl ether, n-butylbenzene, sec-butylbenzene, and tert-butylbenzene	-	Herbicides dalapon, dicamba, and dinoseb; DRO, RRO and GRO; SVOCs 2,4-dinitrotoluene, 2,6-dinitrotoluene, 2-chloronaphthalene, 2-nitroaniline, 2-nitrophenol, 3,3'-dichlorobenzidine, 4,6-dinitro-2-methylphenol, 4-bromophenyl phenyl ether, 4-chloro-3-methylphenol, 4-chlorophenyl phenyl ether, bis(2-chloroethyl) ether, bis(2-chloroisopropyl) ether, hexachlorobutadiene, hexachloroethane, isophorone, N-nitrosodimethylamine, and N-nitrosodi-n-propylamine; and VOCs 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,1-dichloropropene, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane (EDB), 1,3-dichloropropane, 2,2-dichloropropane, 2-chlorotoluene, 4-chlorotoluene, bromobenzene, bromoform, chloroethane, cis-1,3-dichloropropene, hexachlorobutadiene, n-butylbenzene, and trans-1,3-dichloropropene	-
Groundwater	4-Bromophenyl phenyl ether, 4-chlorophenyl phenyl ether, bis(2-chloroisopropyl) ether, carbazole, 2-chloroethylvinylether, 4-isopropyltoluene, n-butylbenzene, sec-butylbenzene, and tert-butylbenzene	-	Herbicides 2,4,5-TP, 2,4-DB, dalapon, and MCPP; pesticide endrin ketone; SVOCs 2-nitroaniline, 2-nitrophenol, 3-nitroaniline, 4,6-dinitro-2-methylphenol, 4-chloro-3-methylphenol, 4-chlorophenyl phenyl ether, 4-nitroaniline, bis(2-chloroethoxy)methane, bis(2-chloroisopropyl) ether, and carbazole; and VOCs 1,1-dichloropropene, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane (EDB), 2-chlorotoluene, 4-chlorotoluene, 4-isopropyltoluene, bromobenzene, bromochloromethane, bromodichloromethane, chloroethane, chloromethane, dibromochloromethane, dibromomethane, dichlorodifluoromethane, n-butylbenzene, sec-butylbenzene, tert-butylbenzene, and trichlorofluoromethane	DRO, RRO, and GRO
Seep Water	4-Bromophenyl phenyl ether, 4-chlorophenyl phenyl ether, bis(2-chloroisopropyl) ether, carbazole, 4-isopropyltoluene, n-butylbenzene, sec-butylbenzene, and tert-butylbenzene	-	Herbicides 2,4,5-TP (silvex), 2,4-DB, dalapon, and MCPP; GRO; SVOCs 2-nitroaniline, 2-nitrophenol, 3-nitroaniline, 4,6-dinitro-2-methylphenol, 4-chloro-3-methylphenol, 4-chlorophenyl phenyl ether, 4-nitroaniline, bis(2-chloroethoxy)methane, bis(2-chloroisopropyl) ether, and carbazole; and VOCs 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane (EDB), 2-chlorotoluene, 4-chlorotoluene, 4-isopropyltoluene, bromobenzene, bromochloromethane, bromodichloromethane, chloroethane, chloromethane, dibromochloromethane, dibromomethane, dichlorodifluoromethane, n-butylbenzene, sec-butylbenzene, tert-butylbenzene, and trichlorofluoromethane	DRO and RRO
Surface Water	-	-	-	DRO, RRO, and GRO

Table 7-4
Upland OU Non-detects Without SLVs
Bradford Island Remedial Investigation

	100% NDs without HH SLVs	< 100% NDs without HH SLVs	100% NDs without Eco SLVs	< 100% NDs without Eco SLVs
Sandblast AOPC				
Soil (0-1 ft bgs)	NA	NA	Herbicides dalapon, dicamba, and dinoseb; SVOCs 2,4-dinitrotoluene, 2,6-dinitrotoluene, 2-chloronaphthalene, 2-nitroaniline, 2-nitrophenol, 3,3'-dichlorobenzidine, 4,6-dinitro-2-methylphenol, 4-bromophenyl phenyl ether, 4-chloro-3-methylphenol, 4-chlorophenyl phenyl ether, benzidine, bis(2-chloroethyl) ether, bis(2-chloroisopropyl) ether, hexachlorobutadiene, hexachloroethane, isophorone, N-nitrosodimethylamine, and N-nitrosodi-n-propylamine; and VOCs 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,1-dichloropropene, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane (EDB), 1,3-dichloropropane, 2,2-dichloropropane, 2-chlorotoluene, 4-chlorotoluene, bromobenzene, bromoform, chloroethane, cis-1,3 dichloropropene, hexachlorobutadiene, trans-1,3-dichloropropene, and vinyl acetate	DRO, RRO and GRO; and n-butylbenzene
Soil (0-3 ft bgs)	4-Bromophenyl phenyl ether, 4-chlorophenyl phenyl ether, and tert-butylbenzene	n-Butylbenzene and sec-butylbenzene	Herbicides dalapon, dicamba, and dinoseb; SVOCs 2,4-dinitrotoluene, 2,6-dinitrotoluene, 2-chloronaphthalene, 2-nitroaniline, 2-nitrophenol, 3,3'-dichlorobenzidine, 4,6-dinitro-2-methylphenol, 4-bromophenyl phenyl ether, 4-chloro-3-methylphenol, 4-chlorophenyl phenyl ether, benzidine, bis(2-chloroethyl) ether, bis(2-chloroisopropyl) ether, hexachlorobutadiene, hexachloroethane, isophorone, N-nitrosodimethylamine, and N-nitrosodi-n-propylamine; and VOCs 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,1-dichloropropene, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane (EDB), 1,3-dichloropropane, 2,2-dichloropropane, 2-chlorotoluene, 4-chlorotoluene, bromobenzene, bromoform, chloroethane, cis-1,3 dichloropropene, hexachlorobutadiene, trans-1,3-dichloropropene, and vinyl acetate	DRO, RRO and GRO; and n-butylbenzene
Soil (0-10 ft bgs)	4-Bromophenyl phenyl ether, 4-chlorophenyl phenyl ether, and tert-butylbenzene	n-Butylbenzene and sec-butylbenzene	NA	NA
Soil (>10 ft bgs)	4-Bromophenyl phenyl ether, 4-chlorophenyl phenyl ether, n-butylbenzene, sec-butylbenzene, and tert-butylbenzene	-	NA	NA

Table 7-4
Upland OU Non-detects Without SLVs
Bradford Island Remedial Investigation

	100% NDs without HH SLVs	< 100% NDs without HH SLVs	100% NDs without Eco SLVs	< 100% NDs without Eco SLVs
Erodible Soil Subset	4-Bromophenyl phenyl ether, 4-chlorophenyl phenyl ether, n-butylbenzene, sec-butylbenzene, and tert-butylbenzene	-	SVOCs 2,4-dinitrotoluene, 2,6-dinitrotoluene, 2-chloronaphthalene, 2-nitroaniline, 2-nitrophenol, 3,3'-dichlorobenzidine, 4,6-dinitro-2-methylphenol, 4-bromophenyl phenyl ether, 4-chloro-3-methylphenol, 4-chlorophenyl phenyl ether, bis(2-chloroethyl) ether, bis(2-chloroisopropyl) ether, hexachlorobutadiene, hexachloroethane, isophorone, N-nitrosodimethylamine, and N-nitrosodi-n-propylamine; and VOCs 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,1-dichloropropene, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane (EDB), 1,3-dichloropropane, 2,2-dichloropropane, 2-chlorotoluene, 4-chlorotoluene, bromobenzene, bromoform, chloroethane, cis-1,3-dichloropropene, hexachlorobutadiene, n-butylbenzene, trans-1,3-dichloropropene, and vinyl acetate	GRO
Groundwater	4-Isopropyltoluene, n-butylbenzene, sec-butylbenzene, and tert-butylbenzene	-	RRO; and VOCs 1,1-dichloropropene, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane (EDB), 2-chlorotoluene, 4-chlorotoluene, 4-isopropyltoluene, bromobenzene, bromochloromethane, bromodichloromethane, chloroethane, chloromethane, dibromochloromethane, dibromomethane, dichlorodifluoromethane, n-butylbenzene, sec-butylbenzene, tert-butylbenzene, and trichlorofluoromethane	DRO and GRO
DP Groundwater	Total and dissolved SVOCs 4-bromophenyl phenyl ether, 4-chlorophenyl phenyl ether bis(2-chloroisopropyl) ether, and carbazole; and VOCs 4-isopropyltoluene, n-butylbenzene, sec-butylbenzene, and tert-butylbenzene	-	Endrin ketone; DRO; total and dissolved SVOCs 2-nitroaniline, 2-nitrophenol, 3-nitroaniline, 4,6-dinitro-2-methylphenol, 4-chloro-3-methylphenol, 4-chlorophenyl phenyl ether, 4-nitroaniline, bis(2-chloroethoxy)methane, bis(2-chloroisopropyl) ether, and carbazole; and VOCs 1,1-dichloropropene, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane (EDB), 2-chlorotoluene, 4-chlorotoluene, 4-isopropyltoluene, bromobenzene, bromochloromethane, bromodichloromethane, chloroethane, chloromethane, dibromochloromethane, dibromomethane, dichlorodifluoromethane, n-butylbenzene, sec-butylbenzene, tert-butylbenzene, and trichlorofluoromethane	RRO and GRO
Soil Gas	Tetrahydrofuran	Ethanol	NA	NA
Pistol Range AOPC				
Soil (0-1 ft bgs)	-	-	-	-
DP Groundwater	-	-	-	-
Lagoon Sediment	-	-	-	-
Bulb Slope AOPC				
Soil (0-1 ft bgs)	-	-	-	-

Table 7-4
Upland OU Non-detects Without SLVs
Bradford Island Remedial Investigation

	100% NDs without HH SLVs	< 100% NDs without HH SLVs	100% NDs without Eco SLVs	< 100% NDs without Eco SLVs

Notes:

DRO = diesel range organic
Eco = Ecological
GRO = gasoline range organic
HH = Human health
NA = not applicable
RRO = residual range organic
SLV = screening level value

Table 7-5
River OU Non-detects Above SLVs
Bradford Island Remedial Investigation

	100% NDs with MDLs > HH SLV	< 100% NDs with MDLs > HH SLV	100% NDs with MDLs > Eco SLV	< 100% NDs with MDLs > Eco SLV
Pre-Removal Sediment Forebay				
Sediment	Aroclors 1016, 1221, 1232, 1242, 1248, 1260, 1262, and 1268	Aroclor 1254 and Total PCBs as Aroclors	Aroclors 1016, 1221, 1232, 1242, 1248, 1260, 1262, and 1268	Aroclor 1254 and Total PCBs as Aroclors
Clam	NA	NA	-	-
Random Forebay				
Surface Water	Total & dissolved antimony and vanadium	-	-	Dissolved cadmium; and total aluminum
Sediment	Aroclors 1016, 1221, 1232, 1242, 1248, 1260, 1262, and 1268	Aroclor 1254 and Total PCBs as Aroclors	Aroclors 1016, 1221, 1232, 1242, 1248, and 1260	Aroclor 1254 and Total PCBs as Aroclors
Clam	NA	NA	Aroclors 1232 and 1242	Aroclor 1254 and Total PCBs as Aroclors
Crayfish	Aroclors 1016, 1221, 1232, 1242, 1254, 1260, 1262, 1268, and Total PCBs as Aroclors	-	-	-
Sculpin	NA	NA	Aroclors 1221, 1232, 1260	Aroclor 1254 and Total PCBs as Aroclors
Smallmouth Bass	Aroclors 1016, 1221, 1232, 1248, 1260, 1262, and 1268	Aroclors 1242 and 1254, Total PCBs as Aroclors, and bis(2-ethylhexyl) phthalate	Aroclors 1016, 1221, 1232, 1248, 1260, 1262, and 1268	Aroclors 1242 and 1254, Total PCBs as Aroclors, and bis(2-ethylhexyl) phthalate
Largescale Sucker	Aroclors 1016, 1221, 1232, 1242, 1260, and 1268	-	-	-
Targeted Forebay - Eagle Creek				
Sediment	Aroclors 1016, 1221, 1232, 1242, 1254, 1260, 1262, and 1268	Aroclor 1248 and Total PCBs as Aroclors	-	Total PCBs as Aroclors
Targeted Forebay - Goose Island				
Sediment	Aroclors 1016, 1221, 1232, 1242, 1248, and 1260	Aroclor 1254 and Total PCBs as Aroclors	Aroclors 1016, 1221, 1232, 1242, 1248, and 1260	Aroclor 1254 and Total PCBs as Aroclors
Clam	NA	NA	-	-
Crayfish	Aroclors 1016, 1221, 1232, 1242, 1254, 1260, 1262, 1268, and Total PCBs as Aroclors	-	-	-
Downstream				
Sediment	All PCBs as Aroclors	-	-	-

Notes:
* Non-detect analytes were listed, but there is no SLV available

DRO = diesel range organic
Eco = Ecological
GRO = gasoline range organic
HH = Human health
NA = not applicable
RRO = residual range organic
SLV = screening level value

Table 7-6
River OU Non-detects Without SLVs
Bradford Island Remedial Investigation

	100% NDs without HH SLV	< 100% NDs without HH SLV	100% NDs without Eco SLV	< 100% NDs without Eco SLV
Pre-Removal Sediment Forebay				
Sediment	di-n-octyl phthalate	bis(2-ethylhexyl) phthalate, butyl benzyl phthalate, carbazole, and p-cresol	-	-
Clam	NA	NA	Antimony, carbazole, and p-cresol	-
Random Forebay				
Surface Water	-	-	Total and dissolved RRO	Total DRO
Sediment	butyl benzyl phthalate, di-n-butyl phthalate, and di-n-octyl phthalate	RRO, bis(2-ethylhexyl) phthalate, carbazole, and p-cresol	-	RRO
Clam	NA	NA	Carbazole	Antimony and p-cresol
Crayfish	Carbazole and p-cresol	-	Carbazole and p-cresol	-
Sculpin	NA	NA	-	-
Smallmouth Bass	Antimony, carbazole, and p-cresol	Beryllium and chromium	Antimony, carbazole, and p-cresol	Beryllium and chromium
Largescale Sucker	Antimony, beryllium, carbazole, and p-cresol	-	Antimony, beryllium, carbazole, and p-cresol	-
Targeted Forebay - Eagle Creek				
Sediment	RRO, bis(2-ethylhexyl) phthalate, butyl benzyl phthalate, di-n-butyl phthalate, di-n-octyl phthalate, and p-cresol	Carbazole	RRO	-
Targeted Forebay - Goose Island				
Sediment	Butyl benzyl phthalate, carbazole, di-n-octyl phthalate	p-Cresol	-	-
Clam	NA	NA	Antimony and carbazole	-
Crayfish	Carbazole and p-cresol	-	Carbazole and p-cresol	-
Downstream				
Sediment	bis(2-ethylhexyl) phthalate, butyl benzyl phthalate, di-n-butyl phthalate, and di-n-octyl phthalate	RRO, carbazole, and p-cresol	-	RRO

Notes:
* Non-detect analytes were listed, but there is no SLV available

DRO = diesel range organic
Eco = Ecological
GRO = gasoline range organic
HH = Human health
NA = not applicable
RRO = residual range organic
SLV = screening level value

Table 8-1
COIs for which Upland OU Soil Concentrations are Statistically Higher than Reference Area

Media	Analyte Group	Area of Potential concern (AOPC)				
		Landfill	**Sandblast Area**	**Pistol Range**[1]	**Bulb Slope**	**All Four AOPCs Combined**
Soils 0-1 ft bgs	**Metals**	Antimony Cadmium Lead Mercury Silver [2] Sodium Zinc	Antimony [2] Arsenic Cadmium Chromium Lead Nickel Selenium Silver Zinc	Lead Nickel Zinc	Lead Mercury	Antimony [2] Arsenic Cadmium Chromium Lead Mercury [2] Nickel Selenium Silver [2] Zinc
	Organics	all PAHs (no other organic COIs were evaluated)	all PAHs (no other organic COIs were evaluated)	all PAHs (no other organic COIs were evaluated)	all PAHs (no other organic COIs were evaluated)	all PAHs (no other organic COIs were evaluated)
Soils 0-3 ft bgs	**Metals**	Antimony Arsenic Cadmium Lead Mercury Silver [2] Sodium Zinc	Antimony [2] Arsenic Cadmium Chromium Lead Nickel Selenium Silver Zinc	(No subsurface samples)	(No subsurface samples)	Antimony [2] Arsenic Cadmium Chromium Lead Mercury [2] Nickel Selenium Silver [2] Zinc
	Organics	all PAHs (no other organic COIs were evaluated)	all PAHs (no other organic COIs were evaluated)			all PAHs (no other organic COIs were evaluated)
Soils 0-10 ft bgs	**Metals**	Antimony Cadmium Lead Mercury Nickel Selenium Silver Sodium Zinc	Antimony [2] Arsenic Cadmium Chromium Lead Nickel Selenium Silver Zinc	(No subsurface samples)	(No subsurface samples)	Antimony [2] Arsenic Cadmium Chromium Lead Mercury [2] Nickel Selenium Silver [2] Zinc
	Organics	all PAHs (no other organics were evaluated)	all PAHs (no other organics were evaluated)			all PAHs (no other organics were evaluated)

Notes
ft bgs - feet below ground surface
PAHs - polycyclic aromatic hydrocarbons
[1] Results from all Pistol Range AOPC samples (0-1.5 ft bgs) were included in the statistical comparison for the Depth Group 0-1 ft bgs for the Pistol Range AOPC and All Four AOPCs Combined.
[2] A portion of Upland AOPC data contained elevated MDLs/MRLs. Hence, the results were concluded to be not significant due to data censoring at median MDL/MRL for non-detects. Examination of the box-and-whisker plots in Appendix L indicated that these analytes should be considered as having higher concentrations than the Reference concentrations.

Table 8-2
COIs for which Upland OU Groundwater and Seep Water Concentrations are Higher than Reference Area

Media	Analyte Group	Area of Potential Concern (AOPC)	
		Landfill	**Sandblast Area**
Groundwater (total)	**Metals**	All metals analyzed	Arsenic Iron Vanadium (No other metals were analyzed in samples from montoring wells. Direct push results were not compared to MW-10.)
	Organics	GRO, DRO, RRO Butyltins Chloroform Tetrachloroethene (PCE) Vinyl Chloride 1,4-Dichlorobenzene Phenol Phenanthrene (Other organics may be elevated, but reference area data is not available for comparison)	GRO, DRO Chloroform Tetrachloroethene (PCE) Vinyl Chloride Phenanthrene (A few other VOCs may be elevated, but reference area data is not available for comparison) (Other organics were only analyzed in direct push samples. These results were not compared to MW-10.)
Groundwater (dissolved)	**Metals**	Arsenic Barium Calcium Iron Lead Magnesium Manganese Nickel Potassium Sodium Zinc	Arsenic Calcium Iron Magnesium Sodium Vanadium (No other metals were analyzed in samples from montoring wells. Direct push results were not compared to MW-10.)
	Organics	(not analyzed)	(not analyzed)
Seep Water	**Metals**	Arsenic Barium Copper Iron Lead Mercury Selenium	(no seep samples collected)
	Organics	DRO, RRO Chloroform Tetrachloroethene (PCE)	

Notes:
Only compounds that were analyzed in samples from MW-10 (Reference Area Well) were evaluated.
See Appendix L, Table L-3.

Table 8-3
COIs for which Forebay Sediment or Tissue Concentrations are Statistically Higher than Reference Area Concentrations

Chemical Class	Media				
	Sediment[1]	**Clams**	**Crayfish**	**Sculpin[2]**	**Smallmouth Bass**
Metals		Beryllium Cadmium	Antimony Arsenic Chromium Mercury Methyl Mercury Nickel	Cadmium Lead Mercury	Aluminum Barium Copper Mercury Zinc
PAHs and TPH	RRO	Acenaphthene Benzo(a)anthracene Benzo(b)fluoranthene Chrysene Pyrene	Acenaphthene Benzo(a)anthracene Benzo(g,h,i)perylene Fluoranthene Phenanthrene Pyrene		Anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Indeno(1,2,3-cd)pyrene pyrene
Phthalates					Bis(2-ethylhexyl) Phthalate
PCBs	Selected Dioxin-like Congeners	Selected Dioxin-like Congeners	Selected Dioxin-like Congeners Total PCBs (as Congeners)	Selected Dioxin-like Congeners Total PCBs (as Congeners)	All Dioxin-like Congeners Total PCBs (as Congeners)

Notes
PAHs = polycyclic aromatic hydrocarbons
PCBs = polychlorinated biphenyls
TPH = total petroleum hydrocarbons
RRO = residual range organics
[1] Sediment was the only media analyzed for TPH
[2] Due to insufficient sample volume, Scuplin were only analyzed for four metals (arsenic, cadmium, lead, and mercury), and they were not analyzed for PAHs or Phthalates.

Table 8-4
COIs for which Maximum Forebay Surface Water Total Concentrations Exceed Maximum Reference Area Concentrations

Chemical Class	Media Surface Water (total concentrations)
Metals	Aluminum Barium
PAHs	Benzo(a)anthracene Benzo(b)fluoranthene Chrysene Phenanthrene Indeno(1,2,3-cd)pyrene
Phthalates	none
PCBs	Selected Dioxin-like Congeners Total PCBs (as Congeners)

Notes
PAHs = polycyclic aromatic hydrocarbons
PCBs = polychlorinated biphenyls

Table 9-1
Preliminary-COPC Identification for Landfill AOPC Data
Bradford Island - Upland Operable Unit
(1 of 10)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	Metals	Total	Aluminum	0-1 ft	mg/kg	--	No	--	--	--	--	No
Soil	Metals	Total	Antimony	0-1 ft	mg/kg	**Yes**	**Yes**	4.20	0.27	**Yes**	4	**Yes**
Soil	Metals	Total	Arsenic	0-1 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Barium	0-1 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Beryllium	0-1 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Cadmium	0-1 ft	mg/kg	**Yes**	**Yes**	2.09	0.360	**Yes**	14	**Yes**
Soil	Metals	Total	Chromium	0-1 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Cobalt	0-1 ft	mg/kg	--	No	--	--	--	--	No
Soil	Metals	Total	Copper	0-1 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Lead	0-1 ft	mg/kg	**Yes**	**Yes**	741	25.5	**Yes**	18	**Yes**
Soil	Metals	Total	Manganese	0-1 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Mercury	0-1 ft	mg/kg	**Yes**	**Yes**	4.15	0.0660	**Yes**	18	**Yes**
Soil	Metals	Total	Nickel	0-1 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Selenium	0-1 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Silver	0-1 ft	mg/kg	**Yes**	**Yes**	1.50	4.20	No	0	No
Soil	Metals	Total	Thallium	0-1 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Vanadium	0-1 ft	mg/kg	--	No	--	--	--	--	No
Soil	Metals	Total	Zinc	0-1 ft	mg/kg	**Yes**	**Yes**	635	71.7	**Yes**	18	**Yes**
Soil	Metals	Total	Aluminum	0-3 ft	mg/kg	--	No	--	--	--	--	No
Soil	Metals	Total	Antimony	0-3 ft	mg/kg	**Yes**	**Yes**	4.20	0.27	**Yes**	6	**Yes**
Soil	Metals	Total	Arsenic	0-3 ft	mg/kg	**Yes**	**Yes**	30.1	5.40	**Yes**	5	**Yes**
Soil	Metals	Total	Barium	0-3 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Beryllium	0-3 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Cadmium	0-3 ft	mg/kg	**Yes**	**Yes**	3.54	0.360	**Yes**	16	**Yes**
Soil	Metals	Total	Chromium	0-3 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Cobalt	0-3 ft	mg/kg	--	No	--	--	--	--	No
Soil	Metals	Total	Copper	0-3 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Lead	0-3 ft	mg/kg	**Yes**	**Yes**	1,660	25.5	**Yes**	26	**Yes**
Soil	Metals	Total	Manganese	0-3 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Mercury	0-3 ft	mg/kg	**Yes**	**Yes**	4.15	0.0660	**Yes**	19	**Yes**
Soil	Metals	Total	Nickel	0-3 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Selenium	0-3 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Silver	0-3 ft	mg/kg	**Yes**	**Yes**	1.50	4.20	No	0	No
Soil	Metals	Total	Thallium	0-3 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Vanadium	0-3 ft	mg/kg	--	No	--	--	--	--	No
Soil	Metals	Total	Zinc	0-3 ft	mg/kg	**Yes**	**Yes**	1,140	71.7	**Yes**	20	**Yes**
Soil	Metals	Total	Aluminum	0-10 ft	mg/kg	**Yes**	No	23,100	990,000	No	0	No
Soil	Metals	Total	Antimony	0-10 ft	mg/kg	**Yes**	**Yes**	8.19	410	No	0	No
Soil	Metals	Total	Arsenic	0-10 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Barium	0-10 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Beryllium	0-10 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Cadmium	0-10 ft	mg/kg	**Yes**	**Yes**	3.54	150	No	0	No
Soil	Metals	Total	Chromium	0-10 ft	mg/kg	**Yes**	No	--	--	--	--	No

Table 9-1
Preliminary-COPC Identification for Landfill AOPC Data
Bradford Island - Upland Operable Unit
(2 of 10)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	Metals	Total	Cobalt	0-10 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Copper	0-10 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Lead	0-10 ft	mg/kg	**Yes**	**Yes**	1,660	800	**Yes**	6	**Yes**
Soil	Metals	Total	Manganese	0-10 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Mercury	0-10 ft	mg/kg	**Yes**	**Yes**	4.15	93.0	No	0	No
Soil	Metals	Total	Nickel	0-10 ft	mg/kg	**Yes**	**Yes**	1,760	6,100	No	0	No
Soil	Metals	Total	Selenium	0-10 ft	mg/kg	**Yes**	**Yes**	0.879	5,100	No	0	No
Soil	Metals	Total	Silver	0-10 ft	mg/kg	**Yes**	**Yes**	1.52	1,500	No	0	No
Soil	Metals	Total	Thallium	0-10 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Vanadium	0-10 ft	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Zinc	0-10 ft	mg/kg	**Yes**	**Yes**	1,140	310,000	No	0	No
Soil	Butyltins	Total	Dibutyltin	0-1 ft	ug/kg	--	--	20.2	28,000	No	0	No
Soil	Butyltins	Total	Monobutyltin	0-1 ft	ug/kg	--	--	38.0	28,000	No	0	No
Soil	Butyltins	Total	Tributyltin	0-1 ft	ug/kg	--	--	165	28,000	No	0	No
Soil	Butyltins	Total	Dibutyltin	0-3 ft	ug/kg	--	--	20.2	28,000	No	0	No
Soil	Butyltins	Total	Monobutyltin	0-3 ft	ug/kg	--	--	38.0	28,000	No	0	No
Soil	Butyltins	Total	Tributyltin	0-3 ft	ug/kg	--	--	165	28,000	No	0	No
Soil	Butyltins	Total	Dibutyltin	0-10 ft	ug/kg	**Yes**	**--**	20.2	180,000	No	0	No
Soil	Butyltins	Total	Monobutyltin	0-10 ft	ug/kg	**Yes**	**--**	38.0	180,000	No	0	No
Soil	Butyltins	Total	Tributyltin	0-10 ft	ug/kg	**Yes**	**--**	165	180,000	No	0	No
Soil	Herbicides	Total	2,4,5-T	0-1 ft	ug/kg	--	--	93.0	21.0	**Yes**	2	**Yes**
Soil	Herbicides	Total	Dichloroprop	0-1 ft	ug/kg	--	--	180	21.0	**Yes**	2	**Yes**
Soil	Herbicides	Total	MCPP	0-1 ft	ug/kg	--	--	14,000	21.0	**Yes**	2	**Yes**
Soil	Herbicides	Total	2,4,5-T	0-3 ft	ug/kg	--	--	93.0	21.0	**Yes**	2	**Yes**
Soil	Herbicides	Total	Dichloroprop	0-3 ft	ug/kg	--	--	180	21.0	**Yes**	2	**Yes**
Soil	Herbicides	Total	MCPP	0-3 ft	ug/kg	--	--	14,000	21.0	**Yes**	2	**Yes**
Soil	Herbicides	Total	2,4,5-T	0-10 ft	ug/kg	**Yes**	**--**	93.0	6,200,000	No	0	No
Soil	Herbicides	Total	Dichloroprop	0-10 ft	ug/kg	**Yes**	**--**	180	NV	***Yes***	--	***Yes***
Soil	Herbicides	Total	MCPP	0-10 ft	ug/kg	**Yes**	**--**	14,000	620,000	No	0	No
Soil	Pesticides	Total	4,4'-DDE	0-1 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	4,4'-DDT	0-1 ft	ug/kg	**Yes**	**--**	28.0	21.0	**Yes**	2	**Yes**
Soil	Pesticides	Total	BHC (alpha)	0-1 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	BHC (beta)	0-1 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Chlordane (alpha)	0-1 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Chlordane (technical)	0-1 ft	ug/kg	--	--	1,560	7,200	No	0	No
Soil	Pesticides	Total	Dieldrin	0-1 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Endosulfan II	0-1 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Endosulfan Sulfate	0-1 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Heptachlor	0-1 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Heptachlor Epoxide	0-1 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	4,4'-DDE	0-3 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	4,4'-DDT	0-3 ft	ug/kg	**Yes**	**--**	28.0	21.0	**Yes**	2	**Yes**
Soil	Pesticides	Total	BHC (alpha)	0-3 ft	ug/kg	No	--	--	--	--	--	No

Table 9-1
Preliminary-COPC Identification for Landfill AOPC Data
Bradford Island - Upland Operable Unit
(3 of 10)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	Pesticides	Total	BHC (beta)	0-3 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Chlordane (alpha)	0-3 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Chlordane (technical)	0-3 ft	ug/kg	--	--	1,560	7,200	No	0	No
Soil	Pesticides	Total	Dieldrin	0-3 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Endosulfan II	0-3 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Endosulfan Sulfate	0-3 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Heptachlor	0-3 ft	ug/kg	**Yes**	**--**	3.07	480	No	0	No
Soil	Pesticides	Total	Heptachlor Epoxide	0-3 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	4,4'-DDE	0-10 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	4,4'-DDT	0-10 ft	ug/kg	**Yes**	**--**	28.0	7,700	No	0	No
Soil	Pesticides	Total	BHC (alpha)	0-10 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	BHC (beta)	0-10 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Chlordane (alpha)	0-10 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Chlordane (technical)	0-10 ft	ug/kg	--	--	1,560	7,200	No	0	No
Soil	Pesticides	Total	Dieldrin	0-10 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Endosulfan II	0-10 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Endosulfan Sulfate	0-10 ft	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Heptachlor	0-10 ft	ug/kg	**Yes**	**--**	3.07	480	No	0	No
Soil	Pesticides	Total	Heptachlor Epoxide	0-10 ft	ug/kg	No	--	--	--	--	--	No
Soil	PCB Aroclors	Total	Aroclor 1248	0-1 ft	ug/kg	**Yes**	--	968	371	**Yes**	1	**Yes**
Soil	PCB Aroclors	Total	Aroclor 1254	0-1 ft	ug/kg	**Yes**	**--**	78.6	371	No	0	No
Soil	PCB Aroclors	Total	Aroclor 1260	0-1 ft	ug/kg	**Yes**	**--**	660	371	**Yes**	2	**Yes**
Soil	PCB Aroclors	Total	Total PCBs as Aroclors	0-1 ft	ug/kg	**Yes**	**--**	996	371	**Yes**	3	**Yes**
Soil	PCB Aroclors	Total	Aroclor 1248	0-3 ft	ug/kg	**Yes**	--	968	371	**Yes**	1	**Yes**
Soil	PCB Aroclors	Total	Aroclor 1254	0-3 ft	ug/kg	**Yes**	**--**	86.1	371	No	0	No
Soil	PCB Aroclors	Total	Aroclor 1260	0-3 ft	ug/kg	**Yes**	**--**	660	371	**Yes**	2	**Yes**
Soil	PCB Aroclors	Total	Total PCBs as Aroclors	0-3 ft	ug/kg	**Yes**	**--**	996	371	**Yes**	3	**Yes**
Soil	PCB Aroclors	Total	Aroclor 1248	0-10 ft	ug/kg	No	--	--	--	--	--	No
Soil	PCB Aroclors	Total	Aroclor 1254	0-10 ft	ug/kg	**Yes**	**--**	499	740	No	0	No
Soil	PCB Aroclors	Total	Aroclor 1260	0-10 ft	ug/kg	**Yes**	**--**	660	740	No	0	No
Soil	PCB Aroclors	Total	Total PCBs as Aroclors	0-10 ft	ug/kg	**Yes**	**--**	996	740	**Yes**	1	**Yes**
Soil	NWTPH-Dx	Total	Diesel Range Organics	0-1 ft	mg/kg	--	--	1,000	23,000	No	0	No
Soil	NWTPH-Dx	Total	Residual Range Organics	0-1 ft	mg/kg	--	--	9,450	40,000	No	0	No
Soil	NWTPH-Dx	Total	Diesel Range Organics	0-3 ft	mg/kg	**Yes**	--	1,000	23,000	No	0	No
Soil	NWTPH-Dx	Total	Residual Range Organics	0-3 ft	mg/kg	**Yes**	--	9,450	40,000	No	0	No
Soil	NWTPH-Dx	Total	Diesel Range Organics	0-10 ft	mg/kg	**Yes**	**--**	9,740	23,000	No	0	No
Soil	NWTPH-Dx	Total	Residual Range Organics	0-10 ft	mg/kg	**Yes**	**--**	41,900	40,000	**Yes**	1	**Yes**
Soil	NWTPH-Gx	Total	Gasoline Range Organics	0-1 ft	mg/kg	--	--	23,900	13,000	**Yes**	1	**Yes**
Soil	NWTPH-Gx	Total	Gasoline Range Organics	0-3 ft	mg/kg	--	--	23,900	13,000	**Yes**	1	**Yes**
Soil	NWTPH-Gx	Total	Gasoline Range Organics	0-10 ft	mg/kg	**Yes**	**--**	23,900	13,000	**Yes**	1	**Yes**
Soil	SVOCs	Total	2-Methylnaphthalene	0-1 ft	ug/kg	**Yes**	**--**	1,530	4,100,000	No	0	No
Soil	SVOCs	Total	Acenaphthene	0-1 ft	ug/kg	**Yes**	**--**	2,600	19,000,000	No	0	No
Soil	SVOCs	Total	Acenaphthylene	0-1 ft	ug/kg	**Yes**	**--**	78.1	23,000	No	0	No

Table 9-1
Preliminary-COPC Identification for Landfill AOPC Data
Bradford Island - Upland Operable Unit
(4 of 10)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	SVOCs	Total	Anthracene	0-1 ft	ug/kg	**Yes**	--	2,700	93,000,000	No	0	No
Soil	SVOCs	Total	Benzo(a)anthracene	0-1 ft	ug/kg	**Yes**	--	32,000	2,700	**Yes**	7	**Yes**
Soil	SVOCs	Total	Benzo(a)pyrene	0-1 ft	ug/kg	**Yes**	--	33,000	270	**Yes**	17	**Yes**
Soil	SVOCs	Total	Benzo(b)fluoranthene	0-1 ft	ug/kg	**Yes**	--	65,000	2,700	**Yes**	5	**Yes**
Soil	SVOCs	Total	Benzo(g,h,i)perylene	0-1 ft	ug/kg	**Yes**	--	18,000	27,000	No	0	No
Soil	SVOCs	Total	Benzo(k)fluoranthene	0-1 ft	ug/kg	**Yes**	--	65,000	27,000	**Yes**	1	**Yes**
Soil	SVOCs	Total	Benzofluoranthenes, Total	0-1 ft	ug/kg	--	--	14,700	2,700	**Yes**	2	**Yes**
Soil	SVOCs	Total	Benzoic Acid	0-1 ft	ug/kg	**Yes**	--	553	200,000	No	0	No
Soil	SVOCs	Total	Benzyl Alcohol	0-1 ft	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Bis(2-ethylhexyl) Phthalate	0-1 ft	ug/kg	**Yes**	--	21,000	4,500	**Yes**	2	**Yes**
Soil	SVOCs	Total	Butyl Benzyl Phthalate	0-1 ft	ug/kg	**Yes**	--	68.7	450	No	0	No
Soil	SVOCs	Total	Carbazole	0-1 ft	ug/kg	**Yes**	--	2,650	2,260	**Yes**	1	**Yes**
Soil	SVOCs	Total	Chrysene	0-1 ft	ug/kg	**Yes**	--	32,000	270,000	No	0	No
Soil	SVOCs	Total	Dibenz(a,h)anthracene	0-1 ft	ug/kg	**Yes**	--	9,900	270	**Yes**	8	**Yes**
Soil	SVOCs	Total	Dibenzofuran	0-1 ft	ug/kg	**Yes**	--	810	2.00	**Yes**	11	**Yes**
Soil	SVOCs	Total	Diethyl Phthalate	0-1 ft	ug/kg	**Yes**	--	73.4	100,000	No	0	No
Soil	SVOCs	Total	Di-n-butyl Phthalate	0-1 ft	ug/kg	**Yes**	--	1,800	450	**Yes**	1	**Yes**
Soil	SVOCs	Total	Fluoranthene	0-1 ft	ug/kg	**Yes**	--	54,000	8,900,000	No	0	No
Soil	SVOCs	Total	Fluorene	0-1 ft	ug/kg	**Yes**	--	1,200	12,000,000	No	0	No
Soil	SVOCs	Total	Indeno(1,2,3-cd)pyrene	0-1 ft	ug/kg	**Yes**	--	19,000	2,700	**Yes**	5	**Yes**
Soil	SVOCs	Total	Naphthalene	0-1 ft	ug/kg	**Yes**	--	823	23,000	No	0	No
Soil	SVOCs	Total	p-cresol (4-Methylphenol)	0-1 ft	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Pentachlorophenol	0-1 ft	ug/kg	**Yes**	--	201	2,100	No	0	No
Soil	SVOCs	Total	Phenanthrene	0-1 ft	ug/kg	**Yes**	--	12,000	23,000	No	0	No
Soil	SVOCs	Total	Pyrene	0-1 ft	ug/kg	**Yes**	--	40,000	6,700,000	No	0	No
Soil	SVOCs	Total	Total HPAHs (KM, capped)	0-1 ft	ug/kg	**Yes**	--	367,900	1,100	**Yes**	21	**Yes**
Soil	SVOCs	Total	Total LPAHs (KM, capped)	0-1 ft	ug/kg	**Yes**	--	18,674	29,000	No	0	No
Soil	SVOCs	Total	2-Methylnaphthalene	0-3 ft	ug/kg	**Yes**	--	1,530	4,100,000	No	0	No
Soil	SVOCs	Total	Acenaphthene	0-3 ft	ug/kg	**Yes**	--	2,600	19,000,000	No	0	No
Soil	SVOCs	Total	Acenaphthylene	0-3 ft	ug/kg	**Yes**	--	111	23,000	No	0	No
Soil	SVOCs	Total	Anthracene	0-3 ft	ug/kg	**Yes**	--	8,440	93,000,000	No	0	No
Soil	SVOCs	Total	Benzo(a)anthracene	0-3 ft	ug/kg	**Yes**	--	32,000	2,700	**Yes**	13	**Yes**
Soil	SVOCs	Total	Benzo(a)pyrene	0-3 ft	ug/kg	**Yes**	--	34,000	270	**Yes**	23	**Yes**
Soil	SVOCs	Total	Benzo(b)fluoranthene	0-3 ft	ug/kg	**Yes**	--	65,000	2,700	**Yes**	9	**Yes**
Soil	SVOCs	Total	Benzo(g,h,i)perylene	0-3 ft	ug/kg	**Yes**	--	18,000	27,000	No	0	No
Soil	SVOCs	Total	Benzo(k)fluoranthene	0-3 ft	ug/kg	**Yes**	--	65,000	27,000	**Yes**	1	**Yes**
Soil	SVOCs	Total	Benzofluoranthenes, Total	0-3 ft	ug/kg	--	--	31,300	2,700	**Yes**	4	**Yes**
Soil	SVOCs	Total	Benzoic Acid	0-3 ft	ug/kg	**Yes**	--	553	200,000	No	0	No
Soil	SVOCs	Total	Benzyl Alcohol	0-3 ft	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Bis(2-ethylhexyl) Phthalate	0-3 ft	ug/kg	**Yes**	--	21,000	4,500	**Yes**	2	**Yes**
Soil	SVOCs	Total	Butyl Benzyl Phthalate	0-3 ft	ug/kg	**Yes**	--	68.7	450	No	0	No
Soil	SVOCs	Total	Carbazole	0-3 ft	ug/kg	**Yes**	--	2,840	2,260	**Yes**	2	**Yes**
Soil	SVOCs	Total	Chrysene	0-3 ft	ug/kg	**Yes**	--	35,300	270,000	No	0	No

Table 9-1
Preliminary-COPC Identification for Landfill AOPC Data
Bradford Island - Upland Operable Unit
(5 of 10)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	SVOCs	Total	Dibenz(a,h)anthracene	0-3 ft	ug/kg	**Yes**	--	9,900	270	**Yes**	14	**Yes**
Soil	SVOCs	Total	Dibenzofuran	0-3 ft	ug/kg	**Yes**	--	810	2.00	**Yes**	13	**Yes**
Soil	SVOCs	Total	Diethyl Phthalate	0-3 ft	ug/kg	**Yes**	--	73.4	100,000	No	0	No
Soil	SVOCs	Total	Di-n-butyl Phthalate	0-3 ft	ug/kg	**Yes**	--	1,800	450	**Yes**	1	**Yes**
Soil	SVOCs	Total	Fluoranthene	0-3 ft	ug/kg	**Yes**	--	54,000	8,900,000	No	0	No
Soil	SVOCs	Total	Fluorene	0-3 ft	ug/kg	**Yes**	--	1,610	12,000,000	No	0	No
Soil	SVOCs	Total	Indeno(1,2,3-cd)pyrene	0-3 ft	ug/kg	**Yes**	--	20,000	2,700	**Yes**	10	**Yes**
Soil	SVOCs	Total	Naphthalene	0-3 ft	ug/kg	**Yes**	--	823	23,000	No	0	No
Soil	SVOCs	Total	p-cresol (4-Methylphenol)	0-3 ft	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Pentachlorophenol	0-3 ft	ug/kg	**Yes**	--	201	2,100	No	0	No
Soil	SVOCs	Total	Phenanthrene	0-3 ft	ug/kg	**Yes**	--	21,900	23,000	No	0	No
Soil	SVOCs	Total	Pyrene	0-3 ft	ug/kg	**Yes**	--	67,100	6,700,000	No	0	No
Soil	SVOCs	Total	Total HPAHs (KM, capped)	0-3 ft	ug/kg	**Yes**	--	367,900	1,100	**Yes**	27	**Yes**
Soil	SVOCs	Total	Total LPAHs (KM, capped)	0-3 ft	ug/kg	**Yes**	--	34,767	29,000	**Yes**	1	**Yes**
Soil	SVOCs	Total	2-Methylnaphthalene	0-10 ft	ug/kg	**Yes**	--	1,530	4,100,000	No	0	No
Soil	SVOCs	Total	Acenaphthene	0-10 ft	ug/kg	**Yes**	--	3,040	19,000,000	No	0	No
Soil	SVOCs	Total	Acenaphthylene	0-10 ft	ug/kg	**Yes**	--	111	23,000	No	0	No
Soil	SVOCs	Total	Anthracene	0-10 ft	ug/kg	**Yes**	--	8,440	93,000,000	No	0	No
Soil	SVOCs	Total	Benzo(a)anthracene	0-10 ft	ug/kg	**Yes**	--	32,000	2,700	**Yes**	22	**Yes**
Soil	SVOCs	Total	Benzo(a)pyrene	0-10 ft	ug/kg	**Yes**	--	34,000	270	**Yes**	33	**Yes**
Soil	SVOCs	Total	Benzo(b)fluoranthene	0-10 ft	ug/kg	**Yes**	--	65,000	2,700	**Yes**	9	**Yes**
Soil	SVOCs	Total	Benzo(g,h,i)perylene	0-10 ft	ug/kg	**Yes**	--	18,000	27,000	No	0	No
Soil	SVOCs	Total	Benzo(k)fluoranthene	0-10 ft	ug/kg	**Yes**	--	65,000	27,000	**Yes**	1	**Yes**
Soil	SVOCs	Total	Benzofluoranthenes, Total	0-10 ft	ug/kg	--	--	31,300	2,700	**Yes**	13	**Yes**
Soil	SVOCs	Total	Benzoic Acid	0-10 ft	ug/kg	**Yes**	--	553	2,500,000,000	No	0	No
Soil	SVOCs	Total	Benzyl Alcohol	0-10 ft	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Bis(2-ethylhexyl) Phthalate	0-10 ft	ug/kg	**Yes**	--	21,000	150,000	No	0	No
Soil	SVOCs	Total	Butyl Benzyl Phthalate	0-10 ft	ug/kg	**Yes**	--	152	910,000	No	0	No
Soil	SVOCs	Total	Carbazole	0-10 ft	ug/kg	**Yes**	--	2,840	NV	***Yes***	--	***Yes***
Soil	SVOCs	Total	Chrysene	0-10 ft	ug/kg	**Yes**	--	35,300	270,000	No	0	No
Soil	SVOCs	Total	Dibenz(a,h)anthracene	0-10 ft	ug/kg	**Yes**	--	9,900	270	**Yes**	21	**Yes**
Soil	SVOCs	Total	Dibenzofuran	0-10 ft	ug/kg	**Yes**	--	810	1,000,000	No	0	No
Soil	SVOCs	Total	Diethyl Phthalate	0-10 ft	ug/kg	**Yes**	--	73.4	490,000,000	No	0	No
Soil	SVOCs	Total	Di-n-butyl Phthalate	0-10 ft	ug/kg	**Yes**	--	1,800	62,000,000	No	0	No
Soil	SVOCs	Total	Fluoranthene	0-10 ft	ug/kg	**Yes**	--	54,000	8,900,000	No	0	No
Soil	SVOCs	Total	Fluorene	0-10 ft	ug/kg	**Yes**	--	1,610	12,000,000	No	0	No
Soil	SVOCs	Total	Indeno(1,2,3-cd)pyrene	0-10 ft	ug/kg	**Yes**	--	20,000	2,700	**Yes**	17	**Yes**
Soil	SVOCs	Total	Naphthalene	0-10 ft	ug/kg	**Yes**	--	1,710	23,000	No	0	No
Soil	SVOCs	Total	p-cresol (4-Methylphenol)	0-10 ft	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Pentachlorophenol	0-10 ft	ug/kg	**Yes**	--	201	13,000	No	0	No
Soil	SVOCs	Total	Phenanthrene	0-10 ft	ug/kg	**Yes**	--	21,900	23,000	No	0	No
Soil	SVOCs	Total	Pyrene	0-10 ft	ug/kg	**Yes**	--	67,100	6,700,000	No	0	No
Soil	VOCs	Total	1,2,4-Trimethylbenzene	0-1 ft	ug/kg	--	--	14,300	200,000	No	0	No

Table 9-1
Preliminary-COPC Identification for Landfill AOPC Data
Bradford Island - Upland Operable Unit
(6 of 10)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	VOCs	Total	1,3,5-Trimethylbenzene	0-1 ft	ug/kg	--	--	5,410	150,000	No	0	No
Soil	VOCs	Total	Dichloromethane (Methylene Chloride)	0-1 ft	ug/kg	--	--	12.0	20,000	No	0	No
Soil	VOCs	Total	Ethylbenzene	0-1 ft	ug/kg	--	--	2,700	2,260	**Yes**	1	**Yes**
Soil	VOCs	Total	m,p-Xylenes	0-1 ft	ug/kg	--	--	9,800	120,000	No	0	No
Soil	VOCs	Total	Naphthalene	0-1 ft	ug/kg	--	--	8,360	23,000	No	0	No
Soil	VOCs	Total	Tetrachloroethene (PCE)	0-1 ft	ug/kg	**Yes**	--	65.0	1,600	No	0	No
Soil	VOCs	Total	Toluene	0-1 ft	ug/kg	**Yes**	--	5.30	200,000	No	0	No
Soil	VOCs	Total	1,2,4-Trimethylbenzene	0-3 ft	ug/kg	**Yes**	--	14,300	200,000	No	0	No
Soil	VOCs	Total	1,3,5-Trimethylbenzene	0-3 ft	ug/kg	**Yes**	--	5,410	150,000	No	0	No
Soil	VOCs	Total	4-Isopropyltoluene	0-3 ft	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Dichlorodifluoromethane	0-3 ft	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Dichloromethane (Methylene Chloride)	0-3 ft	ug/kg	**Yes**	--	12.0	20,000	No	0	No
Soil	VOCs	Total	Ethylbenzene	0-3 ft	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	m,p-Xylenes	0-3 ft	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Naphthalene	0-3 ft	ug/kg	**Yes**	--	8,360	23,000	No	0	No
Soil	VOCs	Total	Styrene	0-3 ft	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Tetrachloroethene (PCE)	0-3 ft	ug/kg	**Yes**	--	65.0	1,600	No	0	No
Soil	VOCs	Total	Toluene	0-3 ft	ug/kg	**Yes**	**--**	5.30	200,000	No	0	No
Soil	VOCs	Total	Trichlorofluoromethane	0-3 ft	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	1,2,4-Trimethylbenzene	0-10 ft	ug/kg	**Yes**	**--**	14,300	980,000	No	0	No
Soil	VOCs	Total	1,3,5-Trimethylbenzene	0-10 ft	ug/kg	**Yes**	**--**	5,410	150,000	No	0	No
Soil	VOCs	Total	4-Isopropyltoluene	0-10 ft	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Dichlorodifluoromethane	0-10 ft	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Dichloromethane (Methylene Chloride)	0-10 ft	ug/kg	**Yes**	**--**	12.0	20,000	No	0	No
Soil	VOCs	Total	Ethylbenzene	0-10 ft	ug/kg	**Yes**	**--**	2,700	12,000	No	0	No
Soil	VOCs	Total	m,p-Xylenes	0-10 ft	ug/kg	**Yes**	**--**	9,800	2,700,000	No	0	No
Soil	VOCs	Total	Naphthalene	0-10 ft	ug/kg	**Yes**	**--**	8,360	23,000	No	0	No
Soil	VOCs	Total	o-Xylene	0-10 ft	ug/kg	**Yes**	**--**	4,260	19,000,000	No	0	No
Soil	VOCs	Total	Styrene	0-10 ft	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Tetrachloroethene (PCE)	0-10 ft	ug/kg	**Yes**	**--**	403,000	1,600	**Yes**	1	**Yes**
Soil	VOCs	Total	Toluene	0-10 ft	ug/kg	**Yes**	**--**	133,000	24,000,000	No	0	No
Soil	VOCs	Total	Trichlorofluoromethane	0-10 ft	ug/kg	No	--	--	--	--	--	No
Groundwater[3]	Metals	Dissolved	Arsenic	N/A	mg/L	**Yes**	**Yes**	0.0193	0.0000180	**Yes**	29	**Yes**
Groundwater[3]	Metals	Dissolved	Barium	N/A	mg/L	--	**Yes**	0.134	0.00400	**Yes**	3	**Yes**
Groundwater[3]	Metals	Dissolved	Calcium	N/A	mg/L	--	**Yes**	172	116	**Yes**	1	**Yes**
Groundwater[3]	Metals	Dissolved	Iron	N/A	mg/L	**Yes**	**Yes**	35.4	0.300	**Yes**	16	**Yes**
Groundwater[3]	Metals	Dissolved	Lead	N/A	mg/L	**Yes**	**Yes**	0.00350	0.00144	**Yes**	3	**Yes**
Groundwater[3]	Metals	Dissolved	Magnesium	N/A	mg/L	--	**Yes**	25.8	82.0	No	0	No
Groundwater[3]	Metals	Dissolved	Manganese	N/A	mg/L	**Yes**	**Yes**	5.54	0.0500	**Yes**	20	**Yes**
Groundwater[3]	Metals	Dissolved	Nickel	N/A	mg/L	--	**Yes**	0.0187	0.0340	No	0	No
Groundwater[3]	Metals	Dissolved	Potassium	N/A	mg/L	--	**Yes**	12.9	53.0	No	0	No
Groundwater[3]	Metals	Dissolved	Sodium	N/A	mg/L	--	**Yes**	740	680	**Yes**	1	**Yes**

Table 9-1
Preliminary-COPC Identification for Landfill AOPC Data
Bradford Island - Upland Operable Unit
(7 of 10)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Groundwater[3]	Metals	Dissolved	Zinc	N/A	mg/L	--	**Yes**	0.197	0.077	**Yes**	1	**Yes**
Groundwater[3]	Metals	Total	Antimony	N/A	mg/L	--	**Yes**	0.00389	0.00560	No	0	No
Groundwater[3]	Metals	Total	Arsenic	N/A	mg/L	**Yes**	**Yes**	0.0213	0.0000180	**Yes**	43	**Yes**
Groundwater[3]	Metals	Total	Barium	N/A	mg/L	--	**Yes**	0.304	1.00	No	0	No
Groundwater[3]	Metals	Total	Beryllium	N/A	mg/L	--	**Yes**	0.000435	0.0730	No	0	No
Groundwater[3]	Metals	Total	Cadmium	N/A	mg/L	--	**Yes**	0.00560	0.0180	No	0	No
Groundwater[3]	Metals	Total	Chromium	N/A	mg/L	--	**Yes**	0.0185	55.0	No	0	No
Groundwater[3]	Metals	Total	Copper	N/A	mg/L	--	**Yes**	0.201	1.30	No	0	No
Groundwater[3]	Metals	Total	Iron	N/A	mg/L	**Yes**	**Yes**	42.9	0.300	**Yes**	34	**Yes**
Groundwater[3]	Metals	Total	Lead	N/A	mg/L	**Yes**	**Yes**	0.0782	0.0150	**Yes**	2	**Yes**
Groundwater[3]	Metals	Total	Manganese	N/A	mg/L	**Yes**	**Yes**	5.38	0.0500	**Yes**	35	**Yes**
Groundwater[3]	Metals	Total	Mercury	N/A	mg/L	**Yes**	**Yes**	0.000330	0.0110	No	0	No
Groundwater[3]	Metals	Total	Nickel	N/A	mg/L	--	**Yes**	0.117	0.610	No	0	No
Groundwater[3]	Metals	Total	Selenium	N/A	mg/L	--	**Yes**	0.0329	0.170	No	0	No
Groundwater[3]	Metals	Total	Silver	N/A	mg/L	--	**Yes**	0.000658	0.180	No	0	No
Groundwater[3]	Metals	Total	Thallium	N/A	mg/L	--	**Yes**	0.000323	0.000240	**Yes**	2	**Yes**
Groundwater[3]	Metals	Total	Zinc	N/A	mg/L	--	**Yes**	2.66	7.40	No	0	No
Groundwater[3]	Butyltins	Total	Dibutyltin	N/A	ug/L	**Yes**	**--**	0.447	0.0630	**Yes**	6	**Yes**
Groundwater[3]	Butyltins	Total	Monobutyltin	N/A	ug/L	**Yes**	**--**	0.240	0.0630	**Yes**	1	**Yes**
Groundwater[3]	Butyltins	Total	Tributyltin	N/A	ug/L	--	--	0.0601	0.0630	No	0	No
Groundwater[3]	Herbicides	Total	4-Nitrophenol	N/A	ug/L	--	--	0.840	150	No	0	No
Groundwater[3]	Herbicides	Total	Dichloroprop	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	Herbicides	Total	Pentachlorophenol	N/A	ug/L	--	--	0.112	0.270	No	0	No
Groundwater[3]	Pesticides	Total	4,4'-DDE	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	Pesticides	Total	Dieldrin	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	NWTPH-Dx	Total	Diesel Range Organics	N/A	mg/L	**Yes**	**--**	1.80	0.0900	**Yes**	30	**Yes**
Groundwater[3]	NWTPH-Dx	Total	Residual Range Organics	N/A	mg/L	**Yes**	**--**	1.90	0.290	**Yes**	12	**Yes**
Groundwater[3]	NWTPH-Gx	Total	Gasoline Range Organics	N/A	mg/L	**Yes**	**--**	0.430	0.100	**Yes**	5	**Yes**
Groundwater[3]	SVOCs	Total	1,4-Dichlorobenzene	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	SVOCs	Total	2-Methylnaphthalene	N/A	ug/L	**Yes**	**--**	0.360	72.2	No	0	No
Groundwater[3]	SVOCs	Total	2-Methylphenol	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	SVOCs	Total	Acenaphthene	N/A	ug/L	**Yes**	**--**	0.239	520	No	0	No
Groundwater[3]	SVOCs	Total	Anthracene	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	SVOCs	Total	Benzoic Acid	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	SVOCs	Total	Bis(2-ethylhexyl) Phthalate	N/A	ug/L	**Yes**	**--**	48.0	1.20	**Yes**	6	**Yes**
Groundwater[3]	SVOCs	Total	Diethyl Phthalate	N/A	ug/L	**Yes**	**--**	1.90	210	No	0	No
Groundwater[3]	SVOCs	Total	Dimethyl Phthalate	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	SVOCs	Total	Di-n-octyl Phthalate	N/A	ug/L	**Yes**	**--**	7.08	1.20	**Yes**	3	**Yes**
Groundwater[3]	SVOCs	Total	Isophorone	N/A	ug/L	**Yes**	**--**	0.282	35.0	No	0	No

Table 9-1
Preliminary-COPC Identification for Landfill AOPC Data
Bradford Island - Upland Operable Unit
(8 of 10)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Groundwater[3]	SVOCs	Total	Naphthalene	N/A	ug/L	**Yes**	**--**	0.157	0.140	**Yes**	1	**Yes**
Groundwater[3]	SVOCs	Total	p-cresol (4-Methylphenol)	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	SVOCs	Total	Phenanthrene	N/A	ug/L	**Yes**	**--**	3.90	0.140	**Yes**	4	**Yes**
Groundwater[3]	SVOCs	Total	Phenol	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	SVOCs	Total	Pyrene	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	VOCs	Total	1,2,4-Trimethylbenzene	N/A	ug/L	**Yes**	**--**	5.20	7.30	No	0	No
Groundwater[3]	VOCs	Total	4-Methyl-2-pentanone (MIBK)	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	VOCs	Total	Acetone	N/A	ug/L	**Yes**	**--**	15.4	1,500	No	0	No
Groundwater[3]	VOCs	Total	Carbon Disulfide	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	VOCs	Total	Carbon Tetrachloride	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	VOCs	Total	Chloroform	N/A	ug/L	**Yes**	**--**	3.70	0.190	**Yes**	7	**Yes**
Groundwater[3]	VOCs	Total	cis-1,2-Dichloroethene	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	VOCs	Total	Ethylbenzene	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	VOCs	Total	Isopropylbenzene	N/A	ug/L	**Yes**	**--**	4.60	7.30	No	0	No
Groundwater[3]	VOCs	Total	n-Propylbenzene	N/A	ug/L	**Yes**	**--**	2.00	7.30	No	0	No
Groundwater[3]	VOCs	Total	Tetrachloroethene (PCE)	N/A	ug/L	**Yes**	**--**	8.78	0.0930	**Yes**	13	**Yes**
Groundwater[3]	VOCs	Total	Vinyl Chloride	N/A	ug/L	**Yes**	**--**	0.955	0.0250	**Yes**	16	**Yes**
Seep Water[3]	Metals	Dissolved	Antimony	N/A	mg/L	--	**Yes**	0.00228	0.00560	No	0	No
Seep Water[3]	Metals	Dissolved	Arsenic	N/A	mg/L	--	No	--	--	--	--	No
Seep Water[3]	Metals	Dissolved	Barium	N/A	mg/L	--	**Yes**	0.277	0.00400	**Yes**	1	**Yes**
Seep Water[3]	Metals	Dissolved	Calcium	N/A	mg/L	--	**Yes**	76.4	116	No	0	No
Seep Water[3]	Metals	Dissolved	Copper	N/A	mg/L	--	**Yes**	0.00109	0.00580	No	0	No
Seep Water[3]	Metals	Dissolved	Iron	N/A	mg/L	--	**Yes**	3.21	0.300	**Yes**	1	**Yes**
Seep Water[3]	Metals	Dissolved	Lead	N/A	mg/L	--	**Yes**	0.0000650	0.00144	No	0	No
Seep Water[3]	Metals	Dissolved	Magnesium	N/A	mg/L	--	**Yes**	16.6	82.0	No	0	No
Seep Water[3]	Metals	Dissolved	Manganese	N/A	mg/L	--	**Yes**	1.48	0.0500	**Yes**	1	**Yes**
Seep Water[3]	Metals	Dissolved	Nickel	N/A	mg/L	--	**Yes**	0.00222	0.0340	No	0	No
Seep Water[3]	Metals	Dissolved	Potassium	N/A	mg/L	--	No	--	--	--	--	No
Seep Water[3]	Metals	Dissolved	Sodium	N/A	mg/L	--	**Yes**	19.7	680	No	0	No
Seep Water[3]	Metals	Dissolved	Zinc	N/A	mg/L	--	**Yes**	0.0856	0.077	**Yes**	1	**Yes**
Seep Water[3]	Metals	Total	Arsenic	N/A	mg/L	--	**Yes**	0.0128	0.0000180	**Yes**	4	**Yes**
Seep Water[3]	Metals	Total	Barium	N/A	mg/L	--	**Yes**	0.0742	1.00	No	0	No
Seep Water[3]	Metals	Total	Chromium	N/A	mg/L	--	No	--	--	--	--	No
Seep Water[3]	Metals	Total	Copper	N/A	mg/L	--	**Yes**	0.00272	1.30	No	0	No
Seep Water[3]	Metals	Total	Iron	N/A	mg/L	--	**Yes**	121	0.300	**Yes**	4	**Yes**
Seep Water[3]	Metals	Total	Lead	N/A	mg/L	--	**Yes**	0.0257	0.0150	**Yes**	1	**Yes**
Seep Water[3]	Metals	Total	Manganese	N/A	mg/L	--	**Yes**	3.24	0.0500	**Yes**	3	**Yes**
Seep Water[3]	Metals	Total	Mercury	N/A	mg/L	--	No	--	--	--	--	No
Seep Water[3]	Metals	Total	Nickel	N/A	mg/L	--	No	--	--	--	--	No

Table 9-1
Preliminary-COPC Identification for Landfill AOPC Data
Bradford Island - Upland Operable Unit
(9 of 10)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Seep Water[3]	Metals	Total	Selenium	N/A	mg/L	--	**Yes**	0.00111	0.170	No	0	No
Seep Water[3]	NWTPH-Dx	Total	Diesel Range Organics	N/A	mg/L	--	--	0.130	0.0900	**Yes**	1	**Yes**
Seep Water[3]	NWTPH-Dx	Total	Residual Range Organics	N/A	mg/L	--	--	0.130	0.290	No	0	No
Seep Water[3]	SVOCs	Total	Benzoic Acid	N/A	ug/L	--	--	5.90	42.0	No	0	No
Seep Water[3]	VOCs	Total	Chloroform	N/A	ug/L	--	--	2.80	0.190	**Yes**	2	**Yes**
Seep Water[3]	VOCs	Total	Tetrachloroethene (PCE)	N/A	ug/L	--	--	4.40	0.0930	**Yes**	3	**Yes**
Surface Water[3]	Metals	Dissolved	Arsenic	N/A	mg/L	--	--	0.00101	0.0000180	**Yes**	4	**Yes**
Surface Water[3]	Metals	Dissolved	Calcium	N/A	mg/L	--	--	20.5	116	No	0	No
Surface Water[3]	Metals	Dissolved	Iron	N/A	mg/L	--	--	0.00920	0.300	No	0	No
Surface Water[3]	Metals	Dissolved	Lead	N/A	mg/L	--	--	0.0000160	0.00144	No	0	No
Surface Water[3]	Metals	Dissolved	Magnesium	N/A	mg/L	--	--	6.33	82.0	No	0	No
Surface Water[3]	Metals	Dissolved	Manganese	N/A	mg/L	--	--	0.00101	0.0500	No	0	No
Surface Water[3]	Metals	Dissolved	Potassium	N/A	mg/L	--	--	1.51	53.0	No	0	No
Surface Water[3]	Metals	Dissolved	Sodium	N/A	mg/L	--	--	7.90	680	No	0	No
Surface Water[3]	Metals	Total	Arsenic	N/A	mg/L	--	--	0.00117	0.0000180	**Yes**	3	**Yes**
Surface Water[3]	Metals	Total	Iron	N/A	mg/L	--	--	0.446	0.300	**Yes**	1	**Yes**
Surface Water[3]	Metals	Total	Lead	N/A	mg/L	--	--	0.000407	0.0150	No	0	No
Surface Water[3]	Metals	Total	Manganese	N/A	mg/L	--	--	0.0136	0.0500	No	0	No
Surface Water[3]	NWTPH-Dx	Total	Diesel Range Organics	N/A	mg/L	--	--	0.0300	0.0900	No	0	No

Notes

(1) Only evaluated for analytes with a sample size of 20 or more. See the Data Summary for the Landfill AOPC - Appendix I, Table I-1.

(2) Only applicable to inorganics. For soils, see the statistical comparison of Site soil concentrations to Reference Area concentrations; Appendix L, Tables L-1 and L-2.
For groundwater and seep water, see Table 8-3 and Appendix L, Table L-3.

(3) The groundwater, seep water, and surface water SLVs are the lower of the Direct Contact Water SLV and the Discharge to Surface Water-Bioaccumulative SLV; see Appendix J.

Table 9-1
Preliminary-COPC Identification for Landfill AOPC Data
Bradford Island - Upland Operable Unit
(10 of 10)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?

'--' = Not evaluated
% = percent
BHC = hexachlorocyclohexane
ft = feet
Max = maximum
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
N/A = not applicable
NV = No Value
No. = number
NWTPH-Dx = northwest total petroleum hydrocarbon-diesel-extended
NWTPH-Gx =northwest total petroleum hydrocarbon-gasoline-extended
PCB = polychlorinated biphenyl
SLV = screening level value
SVOC = semi-volatile organic carbon
ug/kg = micrograms per kilogram
ug/L = micrograms per liter
VOC = volatile organic carbon

Table 9-2
Preliminary-COPC Identification for Sandblast AOPC Data
Bradford Island - Upland Operable Unit
(1 of 13)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	Metals	Total	Aluminum	0-1 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Antimony	0-1 ft	N/A	mg/kg	**Yes**	**Yes**	13.7	0.270	**Yes**	36	**Yes**
Soil	Metals	Total	Arsenic	0-1 ft	N/A	mg/kg	**Yes**	**Yes**	80.9	5.40	**Yes**	25	**Yes**
Soil	Metals	Total	Barium	0-1 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Beryllium	0-1 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Cadmium	0-1 ft	N/A	mg/kg	**Yes**	**Yes**	17.3	0.360	**Yes**	48	**Yes**
Soil	Metals	Total	Chromium	0-1 ft	N/A	mg/kg	**Yes**	**Yes**	2,650	28.1	**Yes**	42	**Yes**
Soil	Metals	Total	Cobalt	0-1 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Copper	0-1 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Lead	0-1 ft	<250um	mg/kg	--	**Yes**	921	25.5	**Yes**	8	**Yes**
Soil	Metals	Total	Lead	0-1 ft	<2mm	mg/kg	--	**Yes**	768	25.5	**Yes**	8	**Yes**
Soil	Metals	Total	Lead	0-1 ft	N/A	mg/kg	**Yes**	**Yes**	3,260	25.5	**Yes**	56	**Yes**
Soil	Metals	Total	Manganese	0-1 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Mercury	0-1 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Nickel	0-1 ft	N/A	mg/kg	**Yes**	**Yes**	1,060	38	**Yes**	32	**Yes**
Soil	Metals	Total	Selenium	0-1 ft	N/A	mg/kg	**Yes**	**Yes**	0.900	0.520	**Yes**	17	**Yes**
Soil	Metals	Total	Silver	0-1 ft	N/A	mg/kg	**Yes**	**Yes**	0.431	4.20	No	0	No
Soil	Metals	Total	Thallium	0-1 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Vanadium	0-1 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Zinc	0-1 ft	N/A	mg/kg	**Yes**	**Yes**	1,160	71.7	**Yes**	42	**Yes**
Soil	Metals	Total	Aluminum	0-3 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Antimony	0-3 ft	N/A	mg/kg	**Yes**	**Yes**	13.7	0.270	**Yes**	44	**Yes**
Soil	Metals	Total	Arsenic	0-3 ft	N/A	mg/kg	**Yes**	**Yes**	80.9	5.40	**Yes**	34	**Yes**
Soil	Metals	Total	Barium	0-3 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Beryllium	0-3 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Cadmium	0-3 ft	N/A	mg/kg	**Yes**	**Yes**	17.3	0.360	**Yes**	58	**Yes**
Soil	Metals	Total	Chromium	0-3 ft	N/A	mg/kg	**Yes**	**Yes**	2,650	28.1	**Yes**	49	**Yes**
Soil	Metals	Total	Cobalt	0-3 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Copper	0-3 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Lead	0-3 ft	<250um	mg/kg	--	**Yes**	921	25.5	**Yes**	10	**Yes**
Soil	Metals	Total	Lead	0-3 ft	<2mm	mg/kg	--	**Yes**	768	25.5	**Yes**	9	**Yes**
Soil	Metals	Total	Lead	0-3 ft	N/A	mg/kg	**Yes**	**Yes**	3,260	25.5	**Yes**	65	**Yes**
Soil	Metals	Total	Manganese	0-3 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Mercury	0-3 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Nickel	0-3 ft	N/A	mg/kg	**Yes**	**Yes**	1,060	38	**Yes**	34	**Yes**
Soil	Metals	Total	Selenium	0-3 ft	N/A	mg/kg	**Yes**	**Yes**	0.900	0.520	**Yes**	26	**Yes**
Soil	Metals	Total	Silver	0-3 ft	N/A	mg/kg	**Yes**	**Yes**	0.431	4.20	No	0	No
Soil	Metals	Total	Thallium	0-3 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Vanadium	0-3 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Zinc	0-3 ft	N/A	mg/kg	**Yes**	**Yes**	1,160	71.7	**Yes**	47	**Yes**
Soil	Metals	Total	Aluminum	0-10 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Antimony	0-10 ft	N/A	mg/kg	**Yes**	**Yes**	13.7	410	No	0	No
Soil	Metals	Total	Arsenic	0-10 ft	N/A	mg/kg	**Yes**	**Yes**	80.9	5.40	**Yes**	35	**Yes**
Soil	Metals	Total	Barium	0-10 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Beryllium	0-10 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Cadmium	0-10 ft	N/A	mg/kg	**Yes**	**Yes**	17.3	150	No	0	No

Table 9-2
Preliminary-COPC Identification for Sandblast AOPC Data
Bradford Island - Upland Operable Unit
(2 of 13)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	Metals	Total	Chromium	0-10 ft	N/A	mg/kg	**Yes**	**Yes**	2,650	28.1	**Yes**	50	**Yes**
Soil	Metals	Total	Cobalt	0-10 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Copper	0-10 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Lead	0-10 ft	<250um	mg/kg	--	**Yes**	921	800	**Yes**	1	**Yes**
Soil	Metals	Total	Lead	0-10 ft	<2mm	mg/kg	--	**Yes**	768	800	No	0	No
Soil	Metals	Total	Lead	0-10 ft	N/A	mg/kg	**Yes**	**Yes**	3,260	800	**Yes**	6	**Yes**
Soil	Metals	Total	Manganese	0-10 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Mercury	0-10 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Nickel	0-10 ft	N/A	mg/kg	**Yes**	**Yes**	1,060	6,100	No	0	No
Soil	Metals	Total	Selenium	0-10 ft	N/A	mg/kg	**Yes**	**Yes**	0.900	5,100	No	0	No
Soil	Metals	Total	Silver	0-10 ft	N/A	mg/kg	**Yes**	**Yes**	0.431	1,500	No	0	No
Soil	Metals	Total	Thallium	0-10 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Vanadium	0-10 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Zinc	0-10 ft	N/A	mg/kg	**Yes**	**Yes**	1,160	310,000	No	0	No
Soil	Butyltins	Total	Dibutyltin	0-1 ft	N/A	ug/kg	**Yes**	**--**	210	28,000	No	0	No
Soil	Butyltins	Total	Monobutyltin	0-1 ft	N/A	ug/kg	**Yes**	**--**	108	28,000	No	0	No
Soil	Butyltins	Total	Tetrabutyltin	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Butyltins	Total	Tributyltin	0-1 ft	N/A	ug/kg	**Yes**	**--**	1,860	28,000	No	0	No
Soil	Butyltins	Total	Dibutyltin	0-3 ft	N/A	ug/kg	**Yes**	**--**	210	28,000	No	0	No
Soil	Butyltins	Total	Monobutyltin	0-3 ft	N/A	ug/kg	**Yes**	**--**	108	28,000	No	0	No
Soil	Butyltins	Total	Tetrabutyltin	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Butyltins	Total	Tributyltin	0-3 ft	N/A	ug/kg	**Yes**	**--**	1,860	28,000	No	0	No
Soil	Butyltins	Total	Dibutyltin	0-10 ft	N/A	ug/kg	**Yes**	**--**	210	180,000	No	0	No
Soil	Butyltins	Total	Monobutyltin	0-10 ft	N/A	ug/kg	**Yes**	**--**	108	180,000	No	0	No
Soil	Butyltins	Total	Tetrabutyltin	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Butyltins	Total	Tributyltin	0-10 ft	N/A	ug/kg	**Yes**	**--**	1,860	180,000	No	0	No
Soil	Pesticides	Total	4,4'-DDD	0-1 ft	N/A	ug/kg	**Yes**	**--**	0.990	21.0	No	0	No
Soil	Pesticides	Total	4,4'-DDE	0-1 ft	N/A	ug/kg	**Yes**	**--**	2.44	21.0	No	0	No
Soil	Pesticides	Total	4,4'-DDT	0-1 ft	N/A	ug/kg	**Yes**	**--**	140	21.0	**Yes**	7	**Yes**
Soil	Pesticides	Total	Aldrin	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	BHC (beta)	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	BHC (delta)	0-1 ft	N/A	ug/kg	**Yes**	**--**	3.03	340	No	0	No
Soil	Pesticides	Total	BHC (gamma) Lindane	0-1 ft	N/A	ug/kg	**Yes**	**--**	9.68	2,000	No	0	No
Soil	Pesticides	Total	Chlordane (alpha)	0-1 ft	N/A	ug/kg	--	--	1.50	7,200	No	0	No
Soil	Pesticides	Total	Chlordane (gamma)	0-1 ft	N/A	ug/kg	--	--	97.0	7,200	No	0	No
Soil	Pesticides	Total	Dieldrin	0-1 ft	N/A	ug/kg	**Yes**	**--**	0.823	4.90	No	0	No
Soil	Pesticides	Total	Endosulfan I	0-1 ft	N/A	ug/kg	**Yes**	**--**	6.45	20,000	No	0	No
Soil	Pesticides	Total	Endosulfan II	0-1 ft	N/A	ug/kg	**Yes**	**--**	1.99	20,000	No	0	No
Soil	Pesticides	Total	Endosulfan Sulfate	0-1 ft	N/A	ug/kg	**Yes**	**--**	3.30	20,000	No	0	No
Soil	Pesticides	Total	Endrin	0-1 ft	N/A	ug/kg	**Yes**	**--**	17.0	4.90	**Yes**	2	**Yes**
Soil	Pesticides	Total	Endrin Aldehyde	0-1 ft	N/A	ug/kg	**Yes**	**--**	16.0	4.90	**Yes**	2	**Yes**
Soil	Pesticides	Total	Endrin Ketone	0-1 ft	N/A	ug/kg	**Yes**	**--**	13.0	4.90	**Yes**	1	**Yes**
Soil	Pesticides	Total	Heptachlor	0-1 ft	N/A	ug/kg	**Yes**	**--**	2.90	480	No	0	No
Soil	Pesticides	Total	Heptachlor Epoxide	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Methoxychlor	0-1 ft	N/A	ug/kg	**Yes**	**--**	1.20	500,000	No	0	No
Soil	Pesticides	Total	4,4'-DDD	0-3 ft	N/A	ug/kg	**Yes**	**--**	0.990	21.0	No	0	No

Table 9-2
Preliminary-COPC Identification for Sandblast AOPC Data
Bradford Island - Upland Operable Unit
(3 of 13)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	Pesticides	Total	4,4'-DDE	0-3 ft	N/A	ug/kg	**Yes**	**--**	2.44	21.0	No	0	No
Soil	Pesticides	Total	4,4'-DDT	0-3 ft	N/A	ug/kg	**Yes**	**--**	140	21.0	**Yes**	8	**Yes**
Soil	Pesticides	Total	Aldrin	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	BHC (beta)	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	BHC (delta)	0-3 ft	N/A	ug/kg	**Yes**	**--**	3.03	340	No	0	No
Soil	Pesticides	Total	BHC (gamma) Lindane	0-3 ft	N/A	ug/kg	**Yes**	**--**	9.68	2,000	No	0	No
Soil	Pesticides	Total	Chlordane (alpha)	0-3 ft	N/A	ug/kg	**Yes**	**--**	1.50	7,200	No	0	No
Soil	Pesticides	Total	Chlordane (gamma)	0-3 ft	N/A	ug/kg	**Yes**	**--**	97.0	7,200	No	0	No
Soil	Pesticides	Total	Dieldrin	0-3 ft	N/A	ug/kg	**Yes**	**--**	0.823	4.90	No	0	No
Soil	Pesticides	Total	Endosulfan I	0-3 ft	N/A	ug/kg	**Yes**	**--**	6.45	20,000	No	0	No
Soil	Pesticides	Total	Endosulfan II	0-3 ft	N/A	ug/kg	**Yes**	**--**	1.99	20,000	No	0	No
Soil	Pesticides	Total	Endosulfan Sulfate	0-3 ft	N/A	ug/kg	**Yes**	**--**	3.30	20,000	No	0	No
Soil	Pesticides	Total	Endrin	0-3 ft	N/A	ug/kg	**Yes**	**--**	17.0	4.90	**Yes**	2	**Yes**
Soil	Pesticides	Total	Endrin Aldehyde	0-3 ft	N/A	ug/kg	**Yes**	**--**	16.0	4.90	**Yes**	2	**Yes**
Soil	Pesticides	Total	Endrin Ketone	0-3 ft	N/A	ug/kg	**Yes**	**--**	13.0	4.90	**Yes**	1	**Yes**
Soil	Pesticides	Total	Heptachlor	0-3 ft	N/A	ug/kg	**Yes**	**--**	2.90	480	No	0	No
Soil	Pesticides	Total	Heptachlor Epoxide	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Methoxychlor	0-3 ft	N/A	ug/kg	**Yes**	**--**	1.20	500,000	No	0	No
Soil	Pesticides	Total	4,4'-DDD	0-10 ft	N/A	ug/kg	**Yes**	**--**	0.990	11,000	No	0	No
Soil	Pesticides	Total	4,4'-DDE	0-10 ft	N/A	ug/kg	**Yes**	**--**	2.44	7,700	No	0	No
Soil	Pesticides	Total	4,4'-DDT	0-10 ft	N/A	ug/kg	**Yes**	**--**	140	7,700	No	0	No
Soil	Pesticides	Total	Aldrin	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	BHC (beta)	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	BHC (delta)	0-10 ft	N/A	ug/kg	**Yes**	**--**	3.03	340	No	0	No
Soil	Pesticides	Total	BHC (gamma) Lindane	0-10 ft	N/A	ug/kg	**Yes**	**--**	9.68	2,000	No	0	No
Soil	Pesticides	Total	Chlordane (alpha)	0-10 ft	N/A	ug/kg	**Yes**	**--**	1.50	7,200	No	0	No
Soil	Pesticides	Total	Chlordane (gamma)	0-10 ft	N/A	ug/kg	**Yes**	**--**	97.0	7,200	No	0	No
Soil	Pesticides	Total	Dieldrin	0-10 ft	N/A	ug/kg	**Yes**	**--**	0.823	130	No	0	No
Soil	Pesticides	Total	Endosulfan I	0-10 ft	N/A	ug/kg	**Yes**	**--**	6.45	1,400,000	No	0	No
Soil	Pesticides	Total	Endosulfan II	0-10 ft	N/A	ug/kg	**Yes**	**--**	1.99	1,400,000	No	0	No
Soil	Pesticides	Total	Endosulfan Sulfate	0-10 ft	N/A	ug/kg	**Yes**	**--**	3.30	1,400,000	No	0	No
Soil	Pesticides	Total	Endrin	0-10 ft	N/A	ug/kg	**Yes**	--	17.0	71,000	No	0	No
Soil	Pesticides	Total	Endrin Aldehyde	0-10 ft	N/A	ug/kg	**Yes**	**--**	16.0	71,000	No	0	No
Soil	Pesticides	Total	Endrin Ketone	0-10 ft	N/A	ug/kg	**Yes**	**--**	13.0	71,000	No	0	No
Soil	Pesticides	Total	Heptachlor	0-10 ft	N/A	ug/kg	**Yes**	**--**	2.90	480	No	0	No
Soil	Pesticides	Total	Heptachlor Epoxide	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Methoxychlor	0-10 ft	N/A	ug/kg	**Yes**	**--**	1.20	3,100,000	No	0	No
Soil	PCB Aroclors	Total	Aroclor 1254	0-1 ft	N/A	ug/kg	**Yes**	**--**	1,700	371	**Yes**	4	**Yes**
Soil	PCB Aroclors	Total	Aroclor 1260	0-1 ft	N/A	ug/kg	**Yes**	**--**	690	371	**Yes**	4	**Yes**
Soil	PCB Aroclors	Total	Total PCBs as Aroclors	0-1 ft	N/A	ug/kg	**Yes**	**--**	2,140	371	**Yes**	6	**Yes**
Soil	PCB Aroclors	Total	Aroclor 1254	0-3 ft	N/A	ug/kg	**Yes**	**--**	1,700	371	**Yes**	4	**Yes**
Soil	PCB Aroclors	Total	Aroclor 1260	0-3 ft	N/A	ug/kg	**Yes**	**--**	690	371	**Yes**	4	**Yes**
Soil	PCB Aroclors	Total	Total PCBs as Aroclors	0-3 ft	N/A	ug/kg	**Yes**	**--**	2,140	371	**Yes**	6	**Yes**
Soil	PCB Aroclors	Total	Aroclor 1254	0-10 ft	N/A	ug/kg	**Yes**	**--**	1,700	740	**Yes**	2	**Yes**
Soil	PCB Aroclors	Total	Aroclor 1260	0-10 ft	N/A	ug/kg	**Yes**	**--**	690	740	No	0	No
Soil	PCB Aroclors	Total	Total PCBs as Aroclors	0-10 ft	N/A	ug/kg	**Yes**	**--**	2,140	740	**Yes**	3	**Yes**

Table 9-2
Preliminary-COPC Identification for Sandblast AOPC Data
Bradford Island - Upland Operable Unit
(4 of 13)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	NWTPH-Dx	Total	Diesel Range Organics	0-1 ft	N/A	mg/kg	**Yes**	--	1,090	23,000	No	0	No
Soil	NWTPH-Gx	Total	Gasoline Range Organics	0-1 ft	N/A	mg/kg	**Yes**	--	3.49	13,000	No	0	No
Soil	NWTPH-Dx	Total	Residual Range Organics	0-1 ft	N/A	mg/kg	**Yes**	--	2,300	40,000	No	0	No
Soil	NWTPH-Dx	Total	Diesel Range Organics	0-3 ft	N/A	mg/kg	**Yes**	--	1,440	23,000	No	0	No
Soil	NWTPH-Gx	Total	Gasoline Range Organics	0-3 ft	N/A	mg/kg	**Yes**	--	3,960	13,000	No	0	No
Soil	NWTPH-Dx	Total	Residual Range Organics	0-3 ft	N/A	mg/kg	**Yes**	--	2,300	40,000	No	0	No
Soil	NWTPH-Dx	Total	Diesel Range Organics	0-10 ft	N/A	mg/kg	**Yes**	--	1,440	23,000	No	0	No
Soil	NWTPH-Gx	Total	Gasoline Range Organics	0-10 ft	N/A	mg/kg	**Yes**	--	3,960	13,000	No	0	No
Soil	NWTPH-Dx	Total	Residual Range Organics	0-10 ft	N/A	mg/kg	**Yes**	--	2,300	40,000	No	0	No
Soil	SVOCs	Total	2-Methylnaphthalene	0-1 ft	N/A	ug/kg	**Yes**	--	150	4,100,000	No	0	No
Soil	SVOCs	Total	Acenaphthene	0-1 ft	N/A	ug/kg	**Yes**	--	470	19,000,000	No	0	No
Soil	SVOCs	Total	Acenaphthylene	0-1 ft	N/A	ug/kg	**Yes**	--	87.7	23,000	No	0	No
Soil	SVOCs	Total	Anthracene	0-1 ft	N/A	ug/kg	**Yes**	--	832	93,000,000	No	0	No
Soil	SVOCs	Total	Benzo(a)anthracene	0-1 ft	N/A	ug/kg	**Yes**	--	6,440	2,700	**Yes**	1	**Yes**
Soil	SVOCs	Total	Benzo(a)pyrene	0-1 ft	N/A	ug/kg	**Yes**	--	6,470	270	**Yes**	13	**Yes**
Soil	SVOCs	Total	Benzo(b)fluoranthene	0-1 ft	N/A	ug/kg	--	--	4,100	2,700	**Yes**	1	**Yes**
Soil	SVOCs	Total	Benzo(g,h,i)perylene	0-1 ft	N/A	ug/kg	**Yes**	--	3,830	27,000	No	0	No
Soil	SVOCs	Total	Benzo(k)fluoranthene	0-1 ft	N/A	ug/kg	--	--	1,400	27,000	No	0	No
Soil	SVOCs	Total	Benzofluoranthenes, Total	0-1 ft	N/A	ug/kg	--	--	12,100	2,700	**Yes**	2	**Yes**
Soil	SVOCs	Total	Benzoic Acid	0-1 ft	N/A	ug/kg	**Yes**	--	980	200,000	No	0	No
Soil	SVOCs	Total	Benzyl Alcohol	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Bis(2-ethylhexyl) Phthalate	0-1 ft	N/A	ug/kg	**Yes**	--	260,000	4,500	**Yes**	8	**Yes**
Soil	SVOCs	Total	Butyl Benzyl Phthalate	0-1 ft	N/A	ug/kg	**Yes**	--	124	450	No	0	No
Soil	SVOCs	Total	Carbazole	0-1 ft	N/A	ug/kg	**Yes**	--	530	2,260	No	0	No
Soil	SVOCs	Total	Chrysene	0-1 ft	N/A	ug/kg	**Yes**	--	7,590	270,000	No	0	No
Soil	SVOCs	Total	Dibenz(a,h)anthracene	0-1 ft	N/A	ug/kg	**Yes**	--	1,430	270	**Yes**	5	**Yes**
Soil	SVOCs	Total	Dibenzofuran	0-1 ft	N/A	ug/kg	**Yes**	--	220	2.00	**Yes**	16	**Yes**
Soil	SVOCs	Total	Diethyl Phthalate	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Dimethyl Phthalate	0-1 ft	N/A	ug/kg	**Yes**	--	41.0	150,000	No	0	No
Soil	SVOCs	Total	Di-n-butyl Phthalate	0-1 ft	N/A	ug/kg	**Yes**	--	280	450	No	0	No
Soil	SVOCs	Total	Di-n-octyl Phthalate	0-1 ft	N/A	ug/kg	**Yes**	--	127	450	No	0	No
Soil	SVOCs	Total	Fluoranthene	0-1 ft	N/A	ug/kg	**Yes**	--	20,700	8,900,000	No	0	No
Soil	SVOCs	Total	Fluorene	0-1 ft	N/A	ug/kg	**Yes**	--	462	12,000,000	No	0	No
Soil	SVOCs	Total	Indeno(1,2,3-cd)pyrene	0-1 ft	N/A	ug/kg	**Yes**	--	3,910	2,700	**Yes**	1	**Yes**
Soil	SVOCs	Total	Naphthalene	0-1 ft	N/A	ug/kg	**Yes**	--	227	23,000	No	0	No
Soil	SVOCs	Total	N-Nitrosodiphenylamine	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	p-cresol (4-Methylphenol)	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Pentachlorophenol	0-1 ft	N/A	ug/kg	**Yes**	--	32.0	2,100	No	0	No
Soil	SVOCs	Total	Phenanthrene	0-1 ft	N/A	ug/kg	**Yes**	--	4,000	23,000	No	0	No
Soil	SVOCs	Total	Phenol	0-1 ft	N/A	ug/kg	**Yes**	--	3.70	30,000	No	0	No
Soil	SVOCs	Total	Pyrene	0-1 ft	N/A	ug/kg	**Yes**	--	21,900	6,700,000	No	0	No
Soil	SVOCs	Total	Total HPAHs (KM, capped)	0-1 ft	N/A	ug/kg	**Yes**	--	72,270	1,100	**Yes**	15	**Yes**
Soil	SVOCs	Total	Total LPAHs (KM, capped)	0-1 ft	N/A	ug/kg	**Yes**	--	5,687	29,000	No	0	No
Soil	SVOCs	Total	2-Methylnaphthalene	0-3 ft	N/A	ug/kg	**Yes**	--	150	4,100,000	No	0	No
Soil	SVOCs	Total	Acenaphthene	0-3 ft	N/A	ug/kg	**Yes**	--	3,200	19,000,000	No	0	No
Soil	SVOCs	Total	Acenaphthylene	0-3 ft	N/A	ug/kg	**Yes**	--	295	23,000	No	0	No

Table 9-2
Preliminary-COPC Identification for Sandblast AOPC Data
Bradford Island - Upland Operable Unit
(5 of 13)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	SVOCs	Total	Anthracene	0-3 ft	N/A	ug/kg	**Yes**	--	2,040	93,000,000	No	0	No
Soil	SVOCs	Total	Benzo(a)anthracene	0-3 ft	N/A	ug/kg	**Yes**	--	12,300	2,700	**Yes**	2	**Yes**
Soil	SVOCs	Total	Benzo(a)pyrene	0-3 ft	N/A	ug/kg	**Yes**	--	11,700	270	**Yes**	15	**Yes**
Soil	SVOCs	Total	Benzo(b)fluoranthene	0-3 ft	N/A	ug/kg	--	--	4,100	2,700	**Yes**	1	**Yes**
Soil	SVOCs	Total	Benzo(g,h,i)perylene	0-3 ft	N/A	ug/kg	**Yes**	--	3,830	27,000	No	0	No
Soil	SVOCs	Total	Benzo(k)fluoranthene	0-3 ft	N/A	ug/kg	--	--	1,400	27,000	No	0	No
Soil	SVOCs	Total	Benzofluoranthenes, Total	0-3 ft	N/A	ug/kg	**Yes**	--	16,300	2,700	**Yes**	4	**Yes**
Soil	SVOCs	Total	Benzoic Acid	0-3 ft	N/A	ug/kg	**Yes**	--	980	200,000	No	0	No
Soil	SVOCs	Total	Benzyl Alcohol	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Bis(2-ethylhexyl) Phthalate	0-3 ft	N/A	ug/kg	**Yes**	--	260,000	4,500	**Yes**	10	**Yes**
Soil	SVOCs	Total	Butyl Benzyl Phthalate	0-3 ft	N/A	ug/kg	**Yes**	--	124	450	No	0	No
Soil	SVOCs	Total	Carbazole	0-3 ft	N/A	ug/kg	**Yes**	--	530	2,260	No	0	No
Soil	SVOCs	Total	Chrysene	0-3 ft	N/A	ug/kg	**Yes**	--	12,000	270,000	No	0	No
Soil	SVOCs	Total	Dibenz(a,h)anthracene	0-3 ft	N/A	ug/kg	**Yes**	--	1,430	270	**Yes**	7	**Yes**
Soil	SVOCs	Total	Dibenzofuran	0-3 ft	N/A	ug/kg	**Yes**	--	485	2.00	**Yes**	19	**Yes**
Soil	SVOCs	Total	Diethyl Phthalate	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Dimethyl Phthalate	0-3 ft	N/A	ug/kg	**Yes**	--	41.0	150,000	No	0	No
Soil	SVOCs	Total	Di-n-butyl Phthalate	0-3 ft	N/A	ug/kg	**Yes**	--	280	450	No	0	No
Soil	SVOCs	Total	Di-n-octyl Phthalate	0-3 ft	N/A	ug/kg	**Yes**	--	127	450	No	0	No
Soil	SVOCs	Total	Fluoranthene	0-3 ft	N/A	ug/kg	**Yes**	--	28,600	8,900,000	No	0	No
Soil	SVOCs	Total	Fluorene	0-3 ft	N/A	ug/kg	**Yes**	--	779	12,000,000	No	0	No
Soil	SVOCs	Total	Indeno(1,2,3-cd)pyrene	0-3 ft	N/A	ug/kg	**Yes**	--	4,170	2,700	**Yes**	2	**Yes**
Soil	SVOCs	Total	Naphthalene	0-3 ft	N/A	ug/kg	**Yes**	--	256	23,000	No	0	No
Soil	SVOCs	Total	N-Nitrosodiphenylamine	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	p-cresol (4-Methylphenol)	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Pentachlorophenol	0-3 ft	N/A	ug/kg	**Yes**	--	32.0	2,100	No	0	No
Soil	SVOCs	Total	Phenanthrene	0-3 ft	N/A	ug/kg	**Yes**	--	6,550	23,000	No	0	No
Soil	SVOCs	Total	Phenol	0-3 ft	N/A	ug/kg	**Yes**	--	35.0	30,000	No	0	No
Soil	SVOCs	Total	Pyrene	0-3 ft	N/A	ug/kg	**Yes**	--	32,000	6,700,000	No	0	No
Soil	SVOCs	Total	Total HPAHs (KM, capped)	0-3 ft	N/A	ug/kg	**Yes**	--	105,200	1,100	**Yes**	19	**Yes**
Soil	SVOCs	Total	Total LPAHs (KM, capped)	0-3 ft	N/A	ug/kg	**Yes**	--	13,120	29,000	No	0	No
Soil	SVOCs	Total	2-Methylnaphthalene	0-10 ft	N/A	ug/kg	**Yes**	--	150	4,100,000	No	0	No
Soil	SVOCs	Total	Acenaphthene	0-10 ft	N/A	ug/kg	**Yes**	--	3,200	19,000,000	No	0	No
Soil	SVOCs	Total	Acenaphthylene	0-10 ft	N/A	ug/kg	**Yes**	--	295	23,000	No	0	No
Soil	SVOCs	Total	Anthracene	0-10 ft	N/A	ug/kg	**Yes**	--	2,040	93,000,000	No	0	No
Soil	SVOCs	Total	Benzo(a)anthracene	0-10 ft	N/A	ug/kg	**Yes**	--	12,300	2,700	**Yes**	2	**Yes**
Soil	SVOCs	Total	Benzo(a)pyrene	0-10 ft	N/A	ug/kg	**Yes**	--	11,700	270	**Yes**	15	**Yes**
Soil	SVOCs	Total	Benzo(b)fluoranthene	0-10 ft	N/A	ug/kg	--	--	4,100	2,700	**Yes**	1	**Yes**
Soil	SVOCs	Total	Benzo(g,h,i)perylene	0-10 ft	N/A	ug/kg	**Yes**	--	3,830	27,000	No	0	No
Soil	SVOCs	Total	Benzo(k)fluoranthene	0-10 ft	N/A	ug/kg	--	--	1,400	27,000	No	0	No
Soil	SVOCs	Total	Benzofluoranthenes, Total	0-10 ft	N/A	ug/kg	**Yes**	--	16,300	2,700	**Yes**	4	**Yes**
Soil	SVOCs	Total	Benzoic Acid	0-10 ft	N/A	ug/kg	**Yes**	--	980	2,500,000,000	No	0	No
Soil	SVOCs	Total	Benzyl Alcohol	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Bis(2-ethylhexyl) Phthalate	0-10 ft	N/A	ug/kg	**Yes**	--	260,000	150,000	**Yes**	1	**Yes**
Soil	SVOCs	Total	Butyl Benzyl Phthalate	0-10 ft	N/A	ug/kg	**Yes**	--	124	910,000	No	0	No
Soil	SVOCs	Total	Carbazole	0-10 ft	N/A	ug/kg	**Yes**	--	530	NV	***Yes***	--	***Yes***

Table 9-2
Preliminary-COPC Identification for Sandblast AOPC Data
Bradford Island - Upland Operable Unit
(6 of 13)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	SVOCs	Total	Chrysene	0-10 ft	N/A	ug/kg	**Yes**	--	12,000	270,000	No	0	No
Soil	SVOCs	Total	Dibenz(a,h)anthracene	0-10 ft	N/A	ug/kg	**Yes**	--	1,430	270	**Yes**	7	**Yes**
Soil	SVOCs	Total	Dibenzofuran	0-10 ft	N/A	ug/kg	**Yes**	--	485	1,000,000	No	0	No
Soil	SVOCs	Total	Diethyl Phthalate	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Dimethyl Phthalate	0-10 ft	N/A	ug/kg	**Yes**	--	41.0	150,000	No	0	No
Soil	SVOCs	Total	Di-n-butyl Phthalate	0-10 ft	N/A	ug/kg	**Yes**	--	280	62,000,000	No	0	No
Soil	SVOCs	Total	Di-n-octyl Phthalate	0-10 ft	N/A	ug/kg	**Yes**	--	127	150,000	No	0	No
Soil	SVOCs	Total	Fluoranthene	0-10 ft	N/A	ug/kg	**Yes**	--	28,600	8,900,000	No	0	No
Soil	SVOCs	Total	Fluorene	0-10 ft	N/A	ug/kg	**Yes**	--	779	12,000,000	No	0	No
Soil	SVOCs	Total	Indeno(1,2,3-cd)pyrene	0-10 ft	N/A	ug/kg	**Yes**	--	4,170	2,700	**Yes**	2	**Yes**
Soil	SVOCs	Total	Naphthalene	0-10 ft	N/A	ug/kg	**Yes**	--	256	23,000	No	0	No
Soil	SVOCs	Total	N-Nitrosodiphenylamine	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	p-cresol (4-Methylphenol)	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Pentachlorophenol	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Phenanthrene	0-10 ft	N/A	ug/kg	**Yes**	--	6,550	23,000	No	0	No
Soil	SVOCs	Total	Phenol	0-10 ft	N/A	ug/kg	**Yes**	--	35.0	180,000,000	No	0	No
Soil	SVOCs	Total	Pyrene	0-10 ft	N/A	ug/kg	**Yes**	--	32,000	6,700,000	No	0	No
Soil	VOCs	Total	1,1,1-Trichloroethane (TCA)	0-1 ft	N/A	ug/kg	**Yes**	--	0.580	38,000,000	No	0	No
Soil	VOCs	Total	1,1-Dichloroethane	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	1,2,4-Trimethylbenzene	0-1 ft	N/A	ug/kg	**Yes**	--	0.523	200,000	No	0	No
Soil	VOCs	Total	1,3,5-Trimethylbenzene	0-1 ft	N/A	ug/kg	**Yes**	--	0.125	150,000	No	0	No
Soil	VOCs	Total	1,4-Dichlorobenzene	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	2-Butanone (MEK)	0-1 ft	N/A	ug/kg	**Yes**	--	50.0	200,000,000	No	0	No
Soil	VOCs	Total	2-Hexanone	0-1 ft	N/A	ug/kg	**Yes**	--	8.80	1,250,000	No	0	No
Soil	VOCs	Total	4-Isopropyltoluene	0-1 ft	N/A	ug/kg	**Yes**	--	12.0	200,000	No	0	No
Soil	VOCs	Total	4-Methyl-2-pentanone (MIBK)	0-1 ft	N/A	ug/kg	**Yes**	--	1.20	1,250,000	No	0	No
Soil	VOCs	Total	Acetone	0-1 ft	N/A	ug/kg	**Yes**	--	540	1,250,000	No	0	No
Soil	VOCs	Total	Benzene	0-1 ft	N/A	ug/kg	**Yes**	--	1.20	1,200	No	0	No
Soil	VOCs	Total	Bromomethane	0-1 ft	N/A	ug/kg	**Yes**	--	5.00	17,000	No	0	No
Soil	VOCs	Total	Carbon Disulfide	0-1 ft	N/A	ug/kg	**Yes**	--	6.90	1,000,000	No	0	No
Soil	VOCs	Total	Chloroform	0-1 ft	N/A	ug/kg	**Yes**	--	19.0	410	No	0	No
Soil	VOCs	Total	Chloromethane	0-1 ft	N/A	ug/kg	**Yes**	--	0.250	300,000	No	0	No
Soil	VOCs	Total	cis-1,2-Dichloroethene	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Dichlorodifluoromethane	0-1 ft	N/A	ug/kg	**Yes**	--	94.0	730,000	No	0	No
Soil	VOCs	Total	Dichloromethane (Methylene Chloride)	0-1 ft	N/A	ug/kg	**Yes**	--	460	20,000	No	0	No
Soil	VOCs	Total	Ethylbenzene	0-1 ft	N/A	ug/kg	**Yes**	--	0.320	2,260	No	0	No
Soil	VOCs	Total	Isopropylbenzene	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	m,p-Xylenes	0-1 ft	N/A	ug/kg	**Yes**	--	0.440	120,000	No	0	No
Soil	VOCs	Total	Naphthalene	0-1 ft	N/A	ug/kg	**Yes**	--	1.50	23,000	No	0	No
Soil	VOCs	Total	n-Butylbenzene	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	n-Propylbenzene	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	o-Xylene	0-1 ft	N/A	ug/kg	**Yes**	--	0.180	1,000	No	0	No
Soil	VOCs	Total	sec-Butylbenzene	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Tetrachloroethene (PCE)	0-1 ft	N/A	ug/kg	**Yes**	--	3.10	1,600	No	0	No
Soil	VOCs	Total	Toluene	0-1 ft	N/A	ug/kg	**Yes**	--	5.80	200,000	No	0	No
Soil	VOCs	Total	trans-1,2-Dichloroethene	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No

Table 9-2
Preliminary-COPC Identification for Sandblast AOPC Data
Bradford Island - Upland Operable Unit
(7 of 13)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	VOCs	Total	Trichloroethene (TCE)	0-1 ft	N/A	ug/kg	**Yes**	--	0.171	130	No	0	No
Soil	VOCs	Total	1,1,1-Trichloroethane (TCA)	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	1,1-Dichloroethane	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	1,2,4-Trimethylbenzene	0-3 ft	N/A	ug/kg	**Yes**	--	14,300	200,000	No	0	No
Soil	VOCs	Total	1,3,5-Trimethylbenzene	0-3 ft	N/A	ug/kg	**Yes**	--	6,500	150,000	No	0	No
Soil	VOCs	Total	1,4-Dichlorobenzene	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	2-Butanone (MEK)	0-3 ft	N/A	ug/kg	**Yes**	--	50.0	200,000,000	No	0	No
Soil	VOCs	Total	2-Hexanone	0-3 ft	N/A	ug/kg	**Yes**	--	8.80	1,250,000	No	0	No
Soil	VOCs	Total	4-Isopropyltoluene	0-3 ft	N/A	ug/kg	**Yes**	--	161	200,000	No	0	No
Soil	VOCs	Total	4-Methyl-2-pentanone (MIBK)	0-3 ft	N/A	ug/kg	**Yes**	--	1.20	1,250,000	No	0	No
Soil	VOCs	Total	Acetone	0-3 ft	N/A	ug/kg	**Yes**	--	540	1,250,000	No	0	No
Soil	VOCs	Total	Benzene	0-3 ft	N/A	ug/kg	**Yes**	--	1.20	1,200	No	0	No
Soil	VOCs	Total	Bromomethane	0-3 ft	N/A	ug/kg	**Yes**	--	5.00	17,000	No	0	No
Soil	VOCs	Total	Carbon Disulfide	0-3 ft	N/A	ug/kg	**Yes**	--	6.90	1,000,000	No	0	No
Soil	VOCs	Total	Chloroform	0-3 ft	N/A	ug/kg	**Yes**	--	19.0	410	No	0	No
Soil	VOCs	Total	Chloromethane	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	cis-1,2-Dichloroethene	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Dichlorodifluoromethane	0-3 ft	N/A	ug/kg	**Yes**	--	94.0	730,000	No	0	No
Soil	VOCs	Total	Dichloromethane (Methylene Chloride)	0-3 ft	N/A	ug/kg	**Yes**	--	460	20,000	No	0	No
Soil	VOCs	Total	Ethylbenzene	0-3 ft	N/A	ug/kg	**Yes**	--	37.4	2,260	No	0	No
Soil	VOCs	Total	Isopropylbenzene	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	m,p-Xylenes	0-3 ft	N/A	ug/kg	**Yes**	--	7,400	120,000	No	0	No
Soil	VOCs	Total	Naphthalene	0-3 ft	N/A	ug/kg	**Yes**	--	19.5	23,000	No	0	No
Soil	VOCs	Total	n-Butylbenzene	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	n-Propylbenzene	0-3 ft	N/A	ug/kg	**Yes**	--	122	2,260	No	0	No
Soil	VOCs	Total	o-Xylene	0-3 ft	N/A	ug/kg	**Yes**	--	3,200	1,000	**Yes**	1	**Yes**
Soil	VOCs	Total	sec-Butylbenzene	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Tetrachloroethene (PCE)	0-3 ft	N/A	ug/kg	**Yes**	--	420,000	1,600	**Yes**	2	**Yes**
Soil	VOCs	Total	Toluene	0-3 ft	N/A	ug/kg	**Yes**	--	39,000	200,000	No	0	No
Soil	VOCs	Total	trans-1,2-Dichloroethene	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Trichloroethene (TCE)	0-3 ft	N/A	ug/kg	**Yes**	--	6,080	130	**Yes**	2	**Yes**
Soil	VOCs	Total	1,1,1-Trichloroethane (TCA)	0-10 ft	N/A	ug/kg	**Yes**	--	0.580	38,000,000	No	0	No
Soil	VOCs	Total	1,1-Dichloroethane	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	1,2,4-Trimethylbenzene	0-10 ft	N/A	ug/kg	**Yes**	--	14,300	980,000	No	0	No
Soil	VOCs	Total	1,3,5-Trimethylbenzene	0-10 ft	N/A	ug/kg	**Yes**	--	6,500	150,000	No	0	No
Soil	VOCs	Total	1,4-Dichlorobenzene	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	2-Butanone (MEK)	0-10 ft	N/A	ug/kg	**Yes**	--	50.0	200,000,000	No	0	No
Soil	VOCs	Total	2-Hexanone	0-10 ft	N/A	ug/kg	**Yes**	--	8.80	1,400,000	No	0	No
Soil	VOCs	Total	4-Isopropyltoluene	0-10 ft	N/A	ug/kg	**Yes**	--	161	NV	***Yes***	--	***Yes***
Soil	VOCs	Total	4-Methyl-2-pentanone (MIBK)	0-10 ft	N/A	ug/kg	**Yes**	--	1.20	53,000,000	No	0	No
Soil	VOCs	Total	Acetone	0-10 ft	N/A	ug/kg	**Yes**	--	540	630,000,000	No	0	No
Soil	VOCs	Total	Benzene	0-10 ft	N/A	ug/kg	**Yes**	--	1.20	1,200	No	0	No
Soil	VOCs	Total	Bromomethane	0-10 ft	N/A	ug/kg	**Yes**	--	5.00	17,000	No	0	No
Soil	VOCs	Total	Carbon Disulfide	0-10 ft	N/A	ug/kg	**Yes**	--	6.90	3,700,000	No	0	No
Soil	VOCs	Total	Chloroform	0-10 ft	N/A	ug/kg	**Yes**	--	19.0	410	No	0	No
Soil	VOCs	Total	Chloromethane	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No

Table 9-2
Preliminary-COPC Identification for Sandblast AOPC Data
Bradford Island - Upland Operable Unit
(8 of 13)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	VOCs	Total	cis-1,2-Dichloroethene	0-10 ft	N/A	ug/kg	**Yes**	**--**	120	3,100,000	No	0	No
Soil	VOCs	Total	Dichlorodifluoromethane	0-10 ft	N/A	ug/kg	**Yes**	**--**	94.0	780,000	No	0	No
Soil	VOCs	Total	Dichloromethane (Methylene Chloride)	0-10 ft	N/A	ug/kg	**Yes**	**--**	460	20,000	No	0	No
Soil	VOCs	Total	Ethylbenzene	0-10 ft	N/A	ug/kg	**Yes**	**--**	37.4	12,000	No	0	No
Soil	VOCs	Total	Isopropylbenzene	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	m,p-Xylenes	0-10 ft	N/A	ug/kg	**Yes**	**--**	7,400	2,700,000	No	0	No
Soil	VOCs	Total	Naphthalene	0-10 ft	N/A	ug/kg	**Yes**	**--**	19.5	23,000	No	0	No
Soil	VOCs	Total	n-Butylbenzene	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	n-Propylbenzene	0-10 ft	N/A	ug/kg	**Yes**	**--**	122	21,000,000	No	0	No
Soil	VOCs	Total	o-Xylene	0-10 ft	N/A	ug/kg	**Yes**	**--**	3,200	19,000,000	No	0	No
Soil	VOCs	Total	sec-Butylbenzene	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Tetrachloroethene (PCE)	0-10 ft	N/A	ug/kg	**Yes**	**--**	420,000	1,600	**Yes**	2	**Yes**
Soil	VOCs	Total	Toluene	0-10 ft	N/A	ug/kg	**Yes**	**--**	39,000	24,000,000	No	0	No
Soil	VOCs	Total	trans-1,2-Dichloroethene	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Trichloroethene (TCE)	0-10 ft	N/A	ug/kg	**Yes**	**--**	6,080	130	**Yes**	2	**Yes**
Groundwater[3]	Metals	Dissolved	Arsenic	N/A	N/A	mg/L	**Yes**	**Yes**	0.00899	0.000018	**Yes**	20	**Yes**
Groundwater[3]	Metals	Dissolved	Calcium	N/A	N/A	mg/L	--	**Yes**	44.3	116	No	0	No
Groundwater[3]	Metals	Dissolved	Iron	N/A	N/A	mg/L	**Yes**	**Yes**	0.270	0.300	No	0	No
Groundwater[3]	Metals	Dissolved	Magnesium	N/A	N/A	mg/L	--	**Yes**	14.0	82.0	No	0	No
Groundwater[3]	Metals	Dissolved	Potassium	N/A	N/A	mg/L	--	No	--	--	--	--	No
Groundwater[3]	Metals	Dissolved	Sodium	N/A	N/A	mg/L	--	**Yes**	89.4	680	No	0	No
Groundwater[3]	Metals	Dissolved	Vanadium	N/A	N/A	mg/L	**Yes**	**Yes**	0.00310	0.00260	**Yes**	1	**Yes**
Groundwater[3]	Metals	Total	Arsenic	N/A	N/A	mg/L	**Yes**	**Yes**	0.0116	0.000018	**Yes**	20	**Yes**
Groundwater[3]	Metals	Total	Iron	N/A	N/A	mg/L	**Yes**	**Yes**	1.50	0.300	**Yes**	2	**Yes**
Groundwater[3]	Metals	Total	Vanadium	N/A	N/A	mg/L	**Yes**	**Yes**	0.00590	0.00260	**Yes**	1	**Yes**
Groundwater[3]	Butyltins	Total	Monobutyltin	N/A	N/A	ug/L	**Yes**	--	0.0260	0.0630	No	0	No
Groundwater[3]	NWTPH-Dx	Total	Diesel Range Organics	N/A	N/A	mg/L	**Yes**	--	0.0180	0.0900	No	0	No
Groundwater[3]	NWTPH-Gx	Total	Gasoline Range Organics	N/A	N/A	mg/L	**Yes**	--	0.0235	0.100	No	0	No
Groundwater[3]	SVOCs	Total	Benzo(b)fluoranthene	N/A	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	SVOCs	Total	Phenanthrene	N/A	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	VOCs	Total	1,1,1-Trichloroethane (TCA)	N/A	N/A	ug/L	**Yes**	--	1.90	11.0	No	0	No
Groundwater[3]	VOCs	Total	1,1-Dichloroethane	N/A	N/A	ug/L	**Yes**	--	5.00	2.30	**Yes**	1	**Yes**
Groundwater[3]	VOCs	Total	1,1-Dichloroethene	N/A	N/A	ug/L	**Yes**	--	2.10	25.0	No	0	No
Groundwater[3]	VOCs	Total	Carbon Disulfide	N/A	N/A	ug/L	--	--	0.255	0.920	No	0	No
Groundwater[3]	VOCs	Total	Chloroform	N/A	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	VOCs	Total	cis-1,2-Dichloroethene	N/A	N/A	ug/L	**Yes**	--	660	360	**Yes**	4	**Yes**
Groundwater[3]	VOCs	Total	Dichloromethane (Methylene Chloride)	N/A	N/A	ug/L	--	--	0.175	4.40	No	0	No
Groundwater[3]	VOCs	Total	Tetrachloroethene (PCE)	N/A	N/A	ug/L	**Yes**	--	6.20	0.0930	**Yes**	16	**Yes**
Groundwater[3]	VOCs	Total	Toluene	N/A	N/A	ug/L	--	--	0.640	9.8	No	0	No
Groundwater[3]	VOCs	Total	trans-1,2-Dichloroethene	N/A	N/A	ug/L	--	--	1.70	110	No	0	No
Groundwater[3]	VOCs	Total	Trichloroethene (TCE)	N/A	N/A	ug/L	**Yes**	--	3.40	0.039	**Yes**	15	**Yes**
Groundwater[3]	VOCs	Total	Vinyl Chloride	N/A	N/A	ug/L	**Yes**	--	4.10	0.025	**Yes**	4	**Yes**

Table 9-2
Preliminary-COPC Identification for Sandblast AOPC Data
Bradford Island - Upland Operable Unit
(9 of 13)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Groundwater - DP[3]	Metals	Dissolved	Aluminum	N/A	N/A	mg/L	--	--	1.37	0.0870	**Yes**	2	**Yes**
Groundwater - DP[3]	Metals	Dissolved	Antimony	N/A	N/A	mg/L	--	--	0.00167	0.00560	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Arsenic	N/A	N/A	mg/L	--	--	0.00136	0.0000180	**Yes**	10	**Yes**
Groundwater - DP[3]	Metals	Dissolved	Barium	N/A	N/A	mg/L	--	--	0.0207	0.00400	**Yes**	8	**Yes**
Groundwater - DP[3]	Metals	Dissolved	Cadmium	N/A	N/A	mg/L	--	--	0.0000300	0.000170	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Calcium	N/A	N/A	mg/L	--	--	34.1	116	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Chromium	N/A	N/A	mg/L	--	--	0.00429	0.0540	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Cobalt	N/A	N/A	mg/L	--	--	0.00508	0.0110	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Copper	N/A	N/A	mg/L	--	--	0.00438	0.00580	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Iron	N/A	N/A	mg/L	--	--	0.476	0.300	**Yes**	1	**Yes**
Groundwater - DP[3]	Metals	Dissolved	Lead	N/A	N/A	mg/L	--	--	0.000378	0.00144	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Magnesium	N/A	N/A	mg/L	--	--	12.0	82.0	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Manganese	N/A	N/A	mg/L	--	--	0.587	0.0500	**Yes**	4	**Yes**
Groundwater - DP[3]	Metals	Dissolved	Mercury	N/A	N/A	mg/L	--	--	0.0000600	0.000770	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Nickel	N/A	N/A	mg/L	--	--	0.00210	0.0340	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Potassium	N/A	N/A	mg/L	--	--	2.21	53.0	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Selenium	N/A	N/A	mg/L	--	--	0.00130	0.00500	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Silver	N/A	N/A	mg/L	--	--	0.0000790	0.000120	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Sodium	N/A	N/A	mg/L	--	--	47.7	680	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Thallium	N/A	N/A	mg/L	--	--	0.0000855	0.000240	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Vanadium	N/A	N/A	mg/L	--	--	0.00261	0.00260	**Yes**	1	**Yes**
Groundwater - DP[3]	Metals	Dissolved	Zinc	N/A	N/A	mg/L	--	--	0.00348	0.077	No	0	No
Groundwater - DP[3]	Metals	Total	Aluminum	N/A	N/A	mg/L	**--**	--	17.9	37.0	No	0	No
Groundwater - DP[3]	Metals	Total	Antimony	N/A	N/A	mg/L	**--**	--	0.00157	0.00560	No	0	No
Groundwater - DP[3]	Metals	Total	Arsenic	N/A	N/A	mg/L	**--**	--	0.00770	0.0000180	**Yes**	8	**Yes**
Groundwater - DP[3]	Metals	Total	Barium	N/A	N/A	mg/L	**--**	--	0.0978	1.00	No	0	No
Groundwater - DP[3]	Metals	Total	Beryllium	N/A	N/A	mg/L	**--**	--	0.000785	0.0730	No	0	No
Groundwater - DP[3]	Metals	Total	Calcium	N/A	N/A	mg/L	**--**	--	33.7	NV	***Yes***	--	***Yes***
Groundwater - DP[3]	Metals	Total	Chromium	N/A	N/A	mg/L	**--**	--	0.0318	55.0	No	0	No
Groundwater - DP[3]	Metals	Total	Cobalt	N/A	N/A	mg/L	**--**	--	0.0131	0.0110	**Yes**	1	**Yes**
Groundwater - DP[3]	Metals	Total	Copper	N/A	N/A	mg/L	**--**	--	0.204	1.30	No	0	No
Groundwater - DP[3]	Metals	Total	Iron	N/A	N/A	mg/L	**--**	--	25.9	0.300	**Yes**	8	**Yes**
Groundwater - DP[3]	Metals	Total	Lead	N/A	N/A	mg/L	**--**	--	0.0137	0.0150	No	0	No
Groundwater - DP[3]	Metals	Total	Magnesium	N/A	N/A	mg/L	**--**	--	15.4	NV	***Yes***	--	***Yes***
Groundwater - DP[3]	Metals	Total	Manganese	N/A	N/A	mg/L	**--**	--	0.709	0.0500	**Yes**	7	**Yes**
Groundwater - DP[3]	Metals	Total	Mercury	N/A	N/A	mg/L	**--**	--	0.000100	0.0110	No	0	No
Groundwater - DP[3]	Metals	Total	Nickel	N/A	N/A	mg/L	**--**	--	0.0214	0.610	No	0	No
Groundwater - DP[3]	Metals	Total	Potassium	N/A	N/A	mg/L	**--**	--	3.21	NV	***Yes***	--	***Yes***
Groundwater - DP[3]	Metals	Total	Selenium	N/A	N/A	mg/L	**--**	--	0.00206	0.170	No	0	No
Groundwater - DP[3]	Metals	Total	Silver	N/A	N/A	mg/L	**--**	--	0.000376	0.180	No	0	No
Groundwater - DP[3]	Metals	Total	Sodium	N/A	N/A	mg/L	**--**	--	42.9	NV	***Yes***	--	***Yes***

Table 9-2
Preliminary-COPC Identification for Sandblast AOPC Data
Bradford Island - Upland Operable Unit
(10 of 13)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Groundwater - DP[3]	Metals	Total	Thallium	N/A	N/A	mg/L	--	--	0.000146	0.000240	No	0	No
Groundwater - DP[3]	Metals	Total	Vanadium	N/A	N/A	mg/L	--	--	0.0776	0.00260	**Yes**	7	**Yes**
Groundwater - DP[3]	Metals	Total	Zinc	N/A	N/A	mg/L	--	--	0.0444	7.40	No	0	No
Groundwater - DP[3]	Butyltins	Total	Monobutyltin	N/A	N/A	ug/L	--	--	0.00671	0.0630	No	0	No
Groundwater - DP[3]	Butyltins	Total	Tributyltin	N/A	N/A	ug/L	--	--	0.00435	0.0630	No	0	No
Groundwater - DP[3]	Pesticides	Total	BHC (gamma) Lindane	N/A	N/A	ug/L	--	--	0.00249	0.0520	No	0	No
Groundwater - DP[3]	Pesticides	Total	Methoxychlor	N/A	N/A	ug/L	--	--	0.00521	0.0300	No	0	No
Groundwater - DP[3]	NWTPH-Dx	Total	Residual Range Organics	N/A	N/A	mg/L	--	--	0.113	0.290	No	0	No
Groundwater - DP[3]	NWTPH-Gx	Total	Gasoline Range Organics	N/A	N/A	mg/L	--	--	0.0209	0.100	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	2-Methylnaphthalene	N/A	N/A	ug/L	--	--	0.280	72.2	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	Acenaphthene	N/A	N/A	ug/L	--	--	0.0348	520	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	Acenaphthylene	N/A	N/A	ug/L	--	--	0.00361	0.140	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	Benzo(a)pyrene	N/A	N/A	ug/L	--	--	0.00714	0.00290	**Yes**	1	**Yes**
Groundwater - DP[3]	SVOCs	Dissolved	Benzoic Acid	N/A	N/A	ug/L	--	--	0.317	42.0	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	Butyl Benzyl Phthalate	N/A	N/A	ug/L	--	--	0.155	19.0	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	Dibenz(a,h)anthracene	N/A	N/A	ug/L	--	--	0.00381	0.00290	**Yes**	1	**Yes**
Groundwater - DP[3]	SVOCs	Dissolved	Diethyl Phthalate	N/A	N/A	ug/L	--	--	0.101	210	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	Di-n-butyl Phthalate	N/A	N/A	ug/L	--	--	0.207	35.0	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	Fluorene	N/A	N/A	ug/L	--	--	0.0116	3.90	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	Indeno(1,2,3-cd)pyrene	N/A	N/A	ug/L	--	--	0.00630	0.00380	**Yes**	1	**Yes**
Groundwater - DP[3]	SVOCs	Dissolved	Isophorone	N/A	N/A	ug/L	--	--	0.0782	35.0	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	Naphthalene	N/A	N/A	ug/L	--	--	0.200	0.140	**Yes**	3	**Yes**
Groundwater - DP[3]	SVOCs	Dissolved	Phenanthrene	N/A	N/A	ug/L	--	--	0.0190	0.140	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	Phenol	N/A	N/A	ug/L	--	--	0.0248	110	No	0	No
Groundwater - DP[3]	SVOCs	Total	2-Methylnaphthalene	N/A	N/A	ug/L	--	--	0.153	72.2	No	0	No
Groundwater - DP[3]	SVOCs	Total	Acenaphthene	N/A	N/A	ug/L	--	--	0.0230	520	No	0	No
Groundwater - DP[3]	SVOCs	Total	Anthracene	N/A	N/A	ug/L	--	--	0.0126	13.0	No	0	No
Groundwater - DP[3]	SVOCs	Total	Benzo(a)pyrene	N/A	N/A	ug/L	--	--	0.00895	0.00290	**Yes**	1	**Yes**
Groundwater - DP[3]	SVOCs	Total	Benzofluoranthenes, Total	N/A	N/A	ug/L	--	--	0.0173	0.00380	**Yes**	1	**Yes**
Groundwater - DP[3]	SVOCs	Total	Benzyl Alcohol	N/A	N/A	ug/L	--	--	0.0523	8.60	No	0	No
Groundwater - DP[3]	SVOCs	Total	Bis(2-ethylhexyl) Phthalate	N/A	N/A	ug/L	--	--	0.408	1.20	No	0	No
Groundwater - DP[3]	SVOCs	Total	Butyl Benzyl Phthalate	N/A	N/A	ug/L	--	--	0.228	19.0	No	0	No
Groundwater - DP[3]	SVOCs	Total	Dibenz(a,h)anthracene	N/A	N/A	ug/L	--	--	0.00671	0.00290	**Yes**	1	**Yes**
Groundwater - DP[3]	SVOCs	Total	Dibenzofuran	N/A	N/A	ug/L	--	--	0.0421	3.70	No	0	No
Groundwater - DP[3]	SVOCs	Total	Di-n-butyl Phthalate	N/A	N/A	ug/L	--	--	0.239	35.0	No	0	No
Groundwater - DP[3]	SVOCs	Total	Fluoranthene	N/A	N/A	ug/L	--	--	0.0311	6.16	No	0	No
Groundwater - DP[3]	SVOCs	Total	Fluorene	N/A	N/A	ug/L	--	--	0.0351	3.90	No	0	No
Groundwater - DP[3]	SVOCs	Total	Indeno(1,2,3-cd)pyrene	N/A	N/A	ug/L	--	--	0.00797	0.00380	**Yes**	1	**Yes**
Groundwater - DP[3]	SVOCs	Total	Isophorone	N/A	N/A	ug/L	--	--	0.0842	35.0	No	0	No
Groundwater - DP[3]	SVOCs	Total	Naphthalene	N/A	N/A	ug/L	--	--	0.0452	0.140	No	0	No
Groundwater - DP[3]	SVOCs	Total	Phenanthrene	N/A	N/A	ug/L	--	--	0.144	0.140	**Yes**	1	**Yes**

Table 9-2
Preliminary-COPC Identification for Sandblast AOPC Data
Bradford Island - Upland Operable Unit
(11 of 13)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Groundwater - DP[3]	SVOCs	Total	Phenol	N/A	N/A	ug/L	--	--	0.0291	110	No	0	No
Groundwater - DP[3]	SVOCs	Total	Pyrene	N/A	N/A	ug/L	--	--	0.0261	10.1	No	0	No
Groundwater - DP[3]	VOCs	Total	1,1,1-Trichloroethane (TCA)	N/A	N/A	ug/L	--	--	2.22	11.0	No	0	No
Groundwater - DP[3]	VOCs	Total	1,1-Dichloroethane	N/A	N/A	ug/L	--	--	2.52	2.30	**Yes**	1	**Yes**
Groundwater - DP[3]	VOCs	Total	1,1-Dichloroethene	N/A	N/A	ug/L	--	--	1.16	25.0	No	0	No
Groundwater - DP[3]	VOCs	Total	1,2,4-Trimethylbenzene	N/A	N/A	ug/L	--	--	0.0485	7.30	No	0	No
Groundwater - DP[3]	VOCs	Total	1,3,5-Trimethylbenzene	N/A	N/A	ug/L	--	--	0.0297	7.30	No	0	No
Groundwater - DP[3]	VOCs	Total	2,2-Dichloropropane	N/A	N/A	ug/L	--	--	0.179	0.390	No	0	No
Groundwater - DP[3]	VOCs	Total	Acetone	N/A	N/A	ug/L	--	--	3.88	1500	No	0	No
Groundwater - DP[3]	VOCs	Total	Benzene	N/A	N/A	ug/L	--	--	0.137	0.390	No	0	No
Groundwater - DP[3]	VOCs	Total	Bromoform	N/A	N/A	ug/L	--	--	0.151	4.30	No	0	No
Groundwater - DP[3]	VOCs	Total	Carbon Disulfide	N/A	N/A	ug/L	--	--	0.0619	0.920	No	0	No
Groundwater - DP[3]	VOCs	Total	Chloroform	N/A	N/A	ug/L	--	--	0.174	0.190	No	0	No
Groundwater - DP[3]	VOCs	Total	cis-1,2-Dichloroethene	N/A	N/A	ug/L	--	--	341	360	No	0	No
Groundwater - DP[3]	VOCs	Total	Ethylbenzene	N/A	N/A	ug/L	--	--	0.0447	1.40	No	0	No
Groundwater - DP[3]	VOCs	Total	Isopropylbenzene	N/A	N/A	ug/L	--	--	0.0197	7.30	No	0	No
Groundwater - DP[3]	VOCs	Total	m,p-Xylenes	N/A	N/A	ug/L	--	--	0.132	13.0	No	0	No
Groundwater - DP[3]	VOCs	Total	Naphthalene	N/A	N/A	ug/L	--	--	0.0452	0.140	No	0	No
Groundwater - DP[3]	VOCs	Total	o-Xylene	N/A	N/A	ug/L	--	--	0.0735	350	No	0	No
Groundwater - DP[3]	VOCs	Total	Tetrachloroethene (PCE)	N/A	N/A	ug/L	--	--	54.5	0.0930	**Yes**	10	**Yes**
Groundwater - DP[3]	VOCs	Total	Toluene	N/A	N/A	ug/L	--	--	0.299	9.80	No	0	No
Groundwater - DP[3]	VOCs	Total	trans-1,2-Dichloroethene	N/A	N/A	ug/L	--	--	1.80	110	No	0	No
Groundwater - DP[3]	VOCs	Total	Trichloroethene (TCE)	N/A	N/A	ug/L	--	--	43.7	0.0390	**Yes**	9	**Yes**
Groundwater - DP[3]	VOCs	Total	Vinyl Chloride	N/A	N/A	ug/L	--	--	0.611	0.0250	**Yes**	2	**Yes**
Soil Gas	VOCs	Total	1,1,1-Trichloroethane (TCA)	N/A	N/A	ug/m^3	--	--	98.0	22,000,000	No	0	No
Soil Gas	VOCs	Total	1,2,4-Trimethylbenzene	N/A	N/A	ug/m^3	--	--	18,500	31,000	No	0	No
Soil Gas	VOCs	Total	1,3,5-Trimethylbenzene	N/A	N/A	ug/m^3	--	--	6,250	26,000	No	0	No
Soil Gas	VOCs	Total	1,3-Butadiene	N/A	N/A	ug/m^3	--	--	210	410	No	0	No
Soil Gas	VOCs	Total	1,4-Dioxane	N/A	N/A	ug/m^3	--	--	1.10	1,600	No	0	No
Soil Gas	VOCs	Total	2,2,4-Trimethylpentane	N/A	N/A	ug/m^3	--	--	1.80	NV	***Yes***	--	***Yes***
Soil Gas	VOCs	Total	2-Butanone (MEK)	N/A	N/A	ug/m^3	--	--	31.0	22,000,000	No	0	No
Soil Gas	VOCs	Total	4-Ethyltoluene	N/A	N/A	ug/m^3	--	--	9,150	NV	***Yes***	--	***Yes***
Soil Gas	VOCs	Total	4-Methyl-2-pentanone (MIBK)	N/A	N/A	ug/m^3	--	--	2.10	13,000,000	No	0	No
Soil Gas	VOCs	Total	Acetone	N/A	N/A	ug/m^3	--	--	97.0	140,000,000	No	0	No
Soil Gas	VOCs	Total	Benzene	N/A	N/A	ug/m^3	--	--	85.0	1,600	No	0	No
Soil Gas	VOCs	Total	Carbon Disulfide	N/A	N/A	ug/m^3	--	--	42.0	3,100,000	No	0	No
Soil Gas	VOCs	Total	Chloroform	N/A	N/A	ug/m^3	--	--	0.750	530	No	0	No
Soil Gas	VOCs	Total	cis-1,2-Dichloroethene	N/A	N/A	ug/m^3	--	--	330	260,000	No	0	No
Soil Gas	VOCs	Total	Cyclohexane	N/A	N/A	ug/m^3	--	--	24.0	26,000,000	No	0	No
Soil Gas	VOCs	Total	Dichlorodifluoromethane	N/A	N/A	ug/m^3	--	--	3.20	880,000	No	0	No
Soil Gas	VOCs	Total	Dichloromethane (Methylene Chloride)	N/A	N/A	ug/m^3	--	--	1.80	26,000	No	0	No

Table 9-2
Preliminary-COPC Identification for Sandblast AOPC Data
Bradford Island - Upland Operable Unit
(12 of 13)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil Gas	VOCs	Total	Ethanol	N/A	N/A	ug/m^3	--	--	13.0	NV	***Yes***	--	***Yes***
Soil Gas	VOCs	Total	Ethylbenzene	N/A	N/A	ug/m^3	--	--	1,550	4,900	No	0	No
Soil Gas	VOCs	Total	Heptane	N/A	N/A	ug/m^3	--	--	87.0	NV	***Yes***	--	***Yes***
Soil Gas	VOCs	Total	Hexane	N/A	N/A	ug/m^3	--	--	110	3,100,000	No	0	No
Soil Gas	VOCs	Total	Isopropylbenzene	N/A	N/A	ug/m^3	--	--	675	1,800,000	No	0	No
Soil Gas	VOCs	Total	m,p-Xylenes	N/A	N/A	ug/m^3	--	--	5,850	440,000	No	0	No
Soil Gas	VOCs	Total	n-Propylbenzene	N/A	N/A	ug/m^3	--	--	2,300	4,400,000	No	0	No
Soil Gas	VOCs	Total	o-Xylene	N/A	N/A	ug/m^3	--	--	2,800	3,100,000	No	0	No
Soil Gas	VOCs	Total	Tetrachloroethene (PCE)	N/A	N/A	ug/m^3	--	--	34,000	2,100	**Yes**	1	**Yes**
Soil Gas	VOCs	Total	Toluene	N/A	N/A	ug/m^3	--	--	47,500	22,000,000	No	0	No
Soil Gas	VOCs	Total	trans-1,2-Dichloroethene	N/A	N/A	ug/m^3	--	--	4.00	260,000	No	0	No
Soil Gas	VOCs	Total	Trichloroethene (TCE)	N/A	N/A	ug/m^3	--	--	610	140	**Yes**	2	**Yes**
Soil Gas	VOCs	Total	Trichlorofluoromethane	N/A	N/A	ug/m^3	--	--	2.20	3,100,000	No	0	No

Notes

(1) Only evaluated for analytes with a sample size of 20 or more. See the Data Summary for the Sandblast Area AOPC - Appendix I, Table I-2.

(2) Only applicable to inorganics. For soils, see the statistical comparison of Site soil concentrations to Reference Area concentrations; Appendix L, Tables L-1 and L-2.
For groundwater, see Table 8-3 and Appendix L, Table L-3. Direct push groundwater samples are not compared to Reference Area monitoring well data.

(3) The groundwater SLVs are the lower of the Direct Contact Water SLV and the Discharge to Surface Water-Bioaccumulative SLV; see Appendix J.

Table 9-2
Preliminary-COPC Identification for Sandblast AOPC Data
Bradford Island - Upland Operable Unit
(13 of 13)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?

(4) Total DDT is evaluated in the ERA for the Upland OU; see Section 12 and Appendix N.

'--' = Not evaluated
% = percent
BHC = hexachlorocyclohexane
DP = Direct Push
ft = feet
Max = maximum
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
mm = millimeter
N/A = not applicable
NV = No Value
No. = number
NWTPH-Dx = northwest total petroleum hydrocarbon-diesel-extended
NWTPH-Gx =northwest total petroleum hydrocarbon-gasoline-extended
PCB = polychlorinated biphenyl
SLV = screening level value
SVOC = semi-volatile organic carbon
ug/kg = micrograms per kilogram
ug/L = micrograms per liter
ug/m3 = micrograms per cubic meter
um = micrometer
VOC = volatile organic carbon

Table 9-3
Preliminary-COPC Identification for Pistol Range AOPC Data
Bradford Island - Upland Operable Unit
(1 of 1)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	Metals	Total	Lead	0-1.5 ft	mg/kg	**Yes**	**Yes**	1,110	25.5	**Yes**	52	**Yes**
Soil	Metals	Total	Nickel	0-1.5 ft	mg/kg	--	**Yes**	32.0	38	No	0	No
Soil	Metals	Total	Zinc	0-1.5 ft	mg/kg	--	**Yes**	199	71.7	**Yes**	10	**Yes**
Lagoon Sediment	Metals	Total	Copper	N/A	mg/kg	--	No	25.4	55.6	No	0	No
Lagoon Sediment	Metals	Total	Lead	N/A	mg/kg	--	**Yes**	33.0	35	No	0	No
Lagoon Sediment	Metals	Total	Nickel	N/A	mg/kg	--	No	15.4	21.2	No	0	No
Lagoon Sediment	Metals	Total	Zinc	N/A	mg/kg	--	**Yes**	174	123	**Yes**	5	**Yes**
Groundwater - DP[3]	Metals	Dissolved	Copper	N/A	mg/L	--	--	0.000800	0.00900	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Nickel	N/A	mg/L	--	--	0.00390	0.0520	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Zinc	N/A	mg/L	--	--	0.00410	0.077	No	0	No
Groundwater - DP[3]	Metals	Total	Copper	N/A	mg/L	--	--	0.0548	1.30	No	0	No
Groundwater - DP[3]	Metals	Total	Lead	N/A	mg/L	--	--	0.0125	0.0150	No	0	No
Groundwater - DP[3]	Metals	Total	Nickel	N/A	mg/L	--	--	0.0501	0.610	No	0	No
Groundwater - DP[3]	Metals	Total	Zinc	N/A	mg/L	--	--	0.149	7.40	No	0	No

Notes

(1) Only evaluated for analytes with a sample size of 20 or more. See the Data Summary for the Pistol Range AOPC - Appendix I, Table I-3.

(2) Only applicable to inorganics. For soils, see the statistical comparison of Site soil concentrations to Reference Area concentrations; Appendix L, Tables L-1 and L-2.
For sediments, the maximum concentrations were compared to the maximum Reference Area sediment concentrations.
Direct push groundwater samples are not compared to Reference Area monitoring well data.

(3) The groundwater SLVs are the lower of the Direct Contact Water SLV and the Discharge to Surface Water-Bioaccumulative SLV; see Appendix J.

'--' = Not evaluated
% = percent
DP = Direct Push
ft = feet
Max = maximum
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
N/A = not applicable
No. = number
SLV = screening level value

Table 9-4
Preliminary-COPC Identification for Bulb Slope AOPC Data
Bradford Island - Upland Operable Unit
(1 of 1)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	Metals	Total	Lead	0-1 ft	mg/kg	--	**Yes**	597	25.5	**Yes**	11	**Yes**
Soil	Metals	Total	Mercury	0-1 ft	mg/kg	--	**Yes**	1.54	0.066	**Yes**	10	**Yes**
Soil	PCB Aroclors	Total	Aroclor 1260	0-1 ft	ug/kg	--	--	251	371	No	0	No
Soil	PCB Aroclors	Total	Total PCBs as Aroclors	0-1 ft	ug/kg	--	--	251	371	No	0	No
Soil	NWTPH-Dx	Total	Diesel Range Organics	0-1 ft	mg/kg	--	--	170	23,000	No	0	No
Soil	NWTPH-Dx	Total	Residual Range Organics	0-1 ft	mg/kg	--	--	410	40,000	No	0	No

Notes
(1) Only evaluated for analytes with a sample size of 20 or more. See the Data Summary for the Bulb Slope AOPC - Appendix I, Table I-4.
(2) Only applicable to inorganics in soil. See the statistical comparison of Site soil concentrations to Reference Area concentrations; Appendix L, Tables L-1 and L-2.

'--' = Not evaluated
% = percent
ft = feet
Max = maximum
mg/kg = milligrams per kilogram
No. = number
NWTPH-Dx = northwest total petroleum hydrocarbon-diesel-extended
PCB = polychlorinated biphenyl
SLV = screening level value
ug/kg = micrograms per kilogram

Table 9-5
Preliminary-COPC Identification for Combined Data from all Four AOPCs
Bradford Island - Upland Operable Unit
(1 of 16)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	Metals	Total	Aluminum	0-1 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Antimony	0-1 ft	N/A	mg/kg	**Yes**	**Yes**	13.7	0.270	**Yes**	40	**Yes**
Soil	Metals	Total	Arsenic	0-1 ft	N/A	mg/kg	**Yes**	**Yes**	80.9	5.40	**Yes**	29	**Yes**
Soil	Metals	Total	Barium	0-1 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Beryllium	0-1 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Cadmium	0-1 ft	N/A	mg/kg	**Yes**	**Yes**	17.3	0.360	**Yes**	62	**Yes**
Soil	Metals	Total	Chromium	0-1 ft	N/A	mg/kg	**Yes**	**Yes**	2,650	28.1	**Yes**	50	**Yes**
Soil	Metals	Total	Cobalt	0-1 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Copper	0-1 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Lead	0-1 ft	<250um	mg/kg	--	**Yes**	921	25.5	**Yes**	8	**Yes**
Soil	Metals	Total	Lead	0-1 ft	<2mm	mg/kg	--	**Yes**	768	25.5	**Yes**	8	**Yes**
Soil	Metals	Total	Lead	0-1 ft	N/A	mg/kg	**Yes**	**Yes**	3,260	25.5	**Yes**	137	**Yes**
Soil	Metals	Total	Manganese	0-1 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Mercury	0-1 ft	N/A	mg/kg	**Yes**	**Yes**	4.15	0.0660	**Yes**	43	**Yes**
Soil	Metals	Total	Nickel	0-1 ft	N/A	mg/kg	**Yes**	**Yes**	1,060	38.0	**Yes**	38	**Yes**
Soil	Metals	Total	Selenium	0-1 ft	N/A	mg/kg	**Yes**	**Yes**	0.900	0.520	**Yes**	18	**Yes**
Soil	Metals	Total	Silver	0-1 ft	N/A	mg/kg	**Yes**	**Yes**	1.50	4.20	No	0	No
Soil	Metals	Total	Thallium	0-1 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Vanadium	0-1 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Zinc	0-1 ft	N/A	mg/kg	**Yes**	**Yes**	1,160	71.7	**Yes**	70	**Yes**
Soil	Metals	Total	Aluminum	0-3 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Antimony	0-3 ft	N/A	mg/kg	**Yes**	**Yes**	13.7	0.270	**Yes**	50	**Yes**
Soil	Metals	Total	Arsenic	0-3 ft	N/A	mg/kg	**Yes**	**Yes**	80.9	5.40	**Yes**	39	**Yes**
Soil	Metals	Total	Barium	0-3 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Beryllium	0-3 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Cadmium	0-3 ft	N/A	mg/kg	**Yes**	**Yes**	17.3	0.360	**Yes**	74	**Yes**
Soil	Metals	Total	Chromium	0-3 ft	N/A	mg/kg	**Yes**	**Yes**	2,650	28.1	**Yes**	59	**Yes**
Soil	Metals	Total	Cobalt	0-3 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Copper	0-3 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Lead	0-3 ft	<250um	mg/kg	--	**Yes**	921	25.5	**Yes**	10	**Yes**
Soil	Metals	Total	Lead	0-3 ft	<2mm	mg/kg	--	**Yes**	768	25.5	**Yes**	9	**Yes**
Soil	Metals	Total	Lead	0-3 ft	N/A	mg/kg	**Yes**	**Yes**	3,260	25.5	**Yes**	154	**Yes**
Soil	Metals	Total	Manganese	0-3 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Mercury	0-3 ft	N/A	mg/kg	**Yes**	**Yes**	4.15	0.0660	**Yes**	47	**Yes**
Soil	Metals	Total	Nickel	0-3 ft	N/A	mg/kg	**Yes**	**Yes**	1,610	38.0	**Yes**	42	**Yes**
Soil	Metals	Total	Selenium	0-3 ft	N/A	mg/kg	**Yes**	**Yes**	0.900	0.520	**Yes**	28	**Yes**
Soil	Metals	Total	Silver	0-3 ft	N/A	mg/kg	**Yes**	**Yes**	1.50	4.20	No	0	No
Soil	Metals	Total	Thallium	0-3 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Vanadium	0-3 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Zinc	0-3 ft	N/A	mg/kg	**Yes**	**Yes**	1,160	71.7	**Yes**	77	**Yes**
Soil	Metals	Total	Aluminum	0-10 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Antimony	0-10 ft	N/A	mg/kg	**Yes**	**Yes**	13.7	410	No	0	No
Soil	Metals	Total	Arsenic	0-10 ft	N/A	mg/kg	**Yes**	**Yes**	80.9	5.40	**Yes**	42	**Yes**
Soil	Metals	Total	Barium	0-10 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Beryllium	0-10 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Cadmium	0-10 ft	N/A	mg/kg	**Yes**	**Yes**	17.3	150	No	0	No

Table 9-5
Preliminary-COPC Identification for Combined Data from all Four AOPCs
Bradford Island - Upland Operable Unit
(2 of 16)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	Metals	Total	Chromium	0-10 ft	N/A	mg/kg	**Yes**	**Yes**	2,650	28.1	**Yes**	67	**Yes**
Soil	Metals	Total	Cobalt	0-10 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Copper	0-10 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Lead	0-10 ft	<250um	mg/kg	--	**Yes**	921	800	**Yes**	1	**Yes**
Soil	Metals	Total	Lead	0-10 ft	<2mm	mg/kg	--	**Yes**	768	800	No	0	No
Soil	Metals	Total	Lead	0-10 ft	N/A	mg/kg	**Yes**	**Yes**	3,260	800	**Yes**	16	**Yes**
Soil	Metals	Total	Manganese	0-10 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Mercury	0-10 ft	N/A	mg/kg	**Yes**	**Yes**	4.15	93.0	No	0	No
Soil	Metals	Total	Nickel	0-10 ft	N/A	mg/kg	**Yes**	**Yes**	1,760	6,100	No	0	No
Soil	Metals	Total	Selenium	0-10 ft	N/A	mg/kg	**Yes**	**Yes**	0.900	5,100	No	0	No
Soil	Metals	Total	Silver	0-10 ft	N/A	mg/kg	**Yes**	**Yes**	1.52	1,500	No	0	No
Soil	Metals	Total	Thallium	0-10 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Vanadium	0-10 ft	N/A	mg/kg	**Yes**	No	--	--	--	--	No
Soil	Metals	Total	Zinc	0-10 ft	N/A	mg/kg	**Yes**	**Yes**	1,160	310,000	No	0	No
Soil	Butyltins	Total	Dibutyltin	0-1 ft	N/A	ug/kg	**Yes**	--	210	28,000	No	0	No
Soil	Butyltins	Total	Monobutyltin	0-1 ft	N/A	ug/kg	**Yes**	--	108	28,000	No	0	No
Soil	Butyltins	Total	Tetrabutyltin	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Butyltins	Total	Tributyltin	0-1 ft	N/A	ug/kg	**Yes**	--	1,860	28,000	No	0	No
Soil	Butyltins	Total	Dibutyltin	0-3 ft	N/A	ug/kg	**Yes**	--	210	28,000	No	0	No
Soil	Butyltins	Total	Monobutyltin	0-3 ft	N/A	ug/kg	**Yes**	--	108	28,000	No	0	No
Soil	Butyltins	Total	Tetrabutyltin	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Butyltins	Total	Tributyltin	0-3 ft	N/A	ug/kg	**Yes**	--	1,860	28,000	No	0	No
Soil	Butyltins	Total	Dibutyltin	0-10 ft	N/A	ug/kg	**Yes**	--	210	180,000	No	0	No
Soil	Butyltins	Total	Monobutyltin	0-10 ft	N/A	ug/kg	**Yes**	--	108	180,000	No	0	No
Soil	Butyltins	Total	Tetrabutyltin	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Butyltins	Total	Tributyltin	0-10 ft	N/A	ug/kg	**Yes**	--	1,860	180,000	No	0	No
Soil	Herbicides	Total	2,4,5-T	0-1 ft	N/A	ug/kg	**Yes**	--	93.0	21.0	**Yes**	2	**Yes**
Soil	Herbicides	Total	Dichloroprop	0-1 ft	N/A	ug/kg	**Yes**	--	180	21.0	**Yes**	2	**Yes**
Soil	Herbicides	Total	MCPP	0-1 ft	N/A	ug/kg	**Yes**	--	14,000	21.0	**Yes**	2	**Yes**
Soil	Herbicides	Total	2,4,5-T	0-3 ft	N/A	ug/kg	**Yes**	--	93.0	21.0	**Yes**	2	**Yes**
Soil	Herbicides	Total	Dichloroprop	0-3 ft	N/A	ug/kg	**Yes**	--	180	21.0	**Yes**	2	**Yes**
Soil	Herbicides	Total	MCPP	0-3 ft	N/A	ug/kg	**Yes**	--	14,000	21.0	**Yes**	2	**Yes**
Soil	Herbicides	Total	2,4,5-T	0-10 ft	N/A	ug/kg	**Yes**	--	93.0	6,200,000	No	0	No
Soil	Herbicides	Total	Dichloroprop	0-10 ft	N/A	ug/kg	**Yes**	--	180	NV	***Yes***	--	***Yes***
Soil	Herbicides	Total	MCPP	0-10 ft	N/A	ug/kg	**Yes**	--	14,000	620,000	No	0	No
Soil	Pesticides	Total	4,4'-DDD	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	4,4'-DDE	0-1 ft	N/A	ug/kg	**Yes**	--	17.0	21.0	No	0	No
Soil	Pesticides	Total	4,4'-DDT	0-1 ft	N/A	ug/kg	**Yes**	--	140	21.0	**Yes**	9	**Yes**
Soil	Pesticides	Total	Aldrin	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	BHC (alpha)	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	BHC (beta)	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	BHC (delta)	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	BHC (gamma) Lindane	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Chlordane (alpha)	0-1 ft	N/A	ug/kg	**Yes**	--	4.00	7,200	No	0	No
Soil	Pesticides	Total	Chlordane (gamma)	0-1 ft	N/A	ug/kg	**Yes**	--	97.0	7,200	No	0	No
Soil	Pesticides	Total	Chlordane (technical)	0-1 ft	N/A	ug/kg	--	--	1,560	7,200	No	0	No

Table 9-5
Preliminary-COPC Identification for Combined Data from all Four AOPCs
Bradford Island - Upland Operable Unit
(3 of 16)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	Pesticides	Total	Dieldrin	0-1 ft	N/A	ug/kg	**Yes**	--	2.10	4.90	No	0	No
Soil	Pesticides	Total	Endosulfan I	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Endosulfan II	0-1 ft	N/A	ug/kg	**Yes**	--	8.84	20,000	No	0	No
Soil	Pesticides	Total	Endosulfan Sulfate	0-1 ft	N/A	ug/kg	**Yes**	--	5.97	20,000	No	0	No
Soil	Pesticides	Total	Endrin	0-1 ft	N/A	ug/kg	**Yes**	--	17.0	4.90	**Yes**	2	**Yes**
Soil	Pesticides	Total	Endrin Aldehyde	0-1 ft	N/A	ug/kg	**Yes**	--	16.0	4.90	**Yes**	2	**Yes**
Soil	Pesticides	Total	Endrin Ketone	0-1 ft	N/A	ug/kg	**Yes**	--	13.0	4.90	**Yes**	1	**Yes**
Soil	Pesticides	Total	Heptachlor	0-1 ft	N/A	ug/kg	**Yes**	--	2.90	480	No	0	No
Soil	Pesticides	Total	Heptachlor Epoxide	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Methoxychlor	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	4,4'-DDD	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	4,4'-DDE	0-3 ft	N/A	ug/kg	**Yes**	--	17.0	21.0	No	0	No
Soil	Pesticides	Total	4,4'-DDT	0-3 ft	N/A	ug/kg	**Yes**	--	140	21.0	**Yes**	10	**Yes**
Soil	Pesticides	Total	Aldrin	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	BHC (alpha)	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	BHC (beta)	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	BHC (delta)	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	BHC (gamma) Lindane	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Chlordane (alpha)	0-3 ft	N/A	ug/kg	**Yes**	--	4.00	7,200	No	0	No
Soil	Pesticides	Total	Chlordane (gamma)	0-3 ft	N/A	ug/kg	**Yes**	--	97.0	7,200	No	0	No
Soil	Pesticides	Total	Chlordane (technical)	0-3 ft	N/A	ug/kg	--	--	1,560	7,200	No	0	No
Soil	Pesticides	Total	Dieldrin	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Endosulfan I	0-3 ft	N/A	ug/kg	**Yes**	--	6.45	20,000	No	0	No
Soil	Pesticides	Total	Endosulfan II	0-3 ft	N/A	ug/kg	**Yes**	--	8.84	20,000	No	0	No
Soil	Pesticides	Total	Endosulfan Sulfate	0-3 ft	N/A	ug/kg	**Yes**	--	5.97	20,000	No	0	No
Soil	Pesticides	Total	Endrin	0-3 ft	N/A	ug/kg	**Yes**	--	17.0	4.90	**Yes**	2	**Yes**
Soil	Pesticides	Total	Endrin Aldehyde	0-3 ft	N/A	ug/kg	**Yes**	--	16.0	4.90	**Yes**	2	**Yes**
Soil	Pesticides	Total	Endrin Ketone	0-3 ft	N/A	ug/kg	**Yes**	--	13.0	4.90	**Yes**	1	**Yes**
Soil	Pesticides	Total	Heptachlor	0-3 ft	N/A	ug/kg	**Yes**	--	3.07	480	No	0	No
Soil	Pesticides	Total	Heptachlor Epoxide	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Methoxychlor	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	4,4'-DDD	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	4,4'-DDE	0-10 ft	N/A	ug/kg	**Yes**	--	17.0	7,700	No	0	No
Soil	Pesticides	Total	4,4'-DDT	0-10 ft	N/A	ug/kg	**Yes**	--	140	7,700	No	0	No
Soil	Pesticides	Total	Aldrin	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	BHC (alpha)	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	BHC (beta)	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	BHC (delta)	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	BHC (gamma) Lindane	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Chlordane (alpha)	0-10 ft	N/A	ug/kg	**Yes**	--	4.00	7,200	No	0	No
Soil	Pesticides	Total	Chlordane (gamma)	0-10 ft	N/A	ug/kg	**Yes**	--	97.0	7,200	No	0	No
Soil	Pesticides	Total	Chlordane (technical)	0-10 ft	N/A	ug/kg	**Yes**	--	1,560	7,200	No	0	No
Soil	Pesticides	Total	Dieldrin	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Endosulfan I	0-10 ft	N/A	ug/kg	**Yes**	--	6.45	1,400,000	No	0	No
Soil	Pesticides	Total	Endosulfan II	0-10 ft	N/A	ug/kg	**Yes**	--	8.84	1,400,000	No	0	No
Soil	Pesticides	Total	Endosulfan Sulfate	0-10 ft	N/A	ug/kg	**Yes**	--	5.97	1,400,000	No	0	No

Table 9-5
Preliminary-COPC Identification for Combined Data from all Four AOPCs
Bradford Island - Upland Operable Unit
(4 of 16)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	Pesticides	Total	Endrin	0-10 ft	N/A	ug/kg	**Yes**	--	17.0	71,000	No	0	No
Soil	Pesticides	Total	Endrin Aldehyde	0-10 ft	N/A	ug/kg	**Yes**	--	16.0	71,000	No	0	No
Soil	Pesticides	Total	Endrin Ketone	0-10 ft	N/A	ug/kg	**Yes**	--	13.0	71,000	No	0	No
Soil	Pesticides	Total	Heptachlor	0-10 ft	N/A	ug/kg	**Yes**	--	3.07	480	No	0	No
Soil	Pesticides	Total	Heptachlor Epoxide	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	Pesticides	Total	Methoxychlor	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	PCB Aroclors	Total	Aroclor 1248	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	PCB Aroclors	Total	Aroclor 1254	0-1 ft	N/A	ug/kg	**Yes**	--	1,700	371	**Yes**	4	**Yes**
Soil	PCB Aroclors	Total	Aroclor 1260	0-1 ft	N/A	ug/kg	**Yes**	--	690	371	**Yes**	6	**Yes**
Soil	PCB Aroclors	Total	Total PCBs as Aroclors	0-1 ft	N/A	ug/kg	**Yes**	--	2,140	371	**Yes**	9	**Yes**
Soil	PCB Aroclors	Total	Aroclor 1248	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	PCB Aroclors	Total	Aroclor 1254	0-3 ft	N/A	ug/kg	**Yes**	--	1,700	371	**Yes**	4	**Yes**
Soil	PCB Aroclors	Total	Aroclor 1260	0-3 ft	N/A	ug/kg	**Yes**	--	690	371	**Yes**	6	**Yes**
Soil	PCB Aroclors	Total	Total PCBs as Aroclors	0-3 ft	N/A	ug/kg	**Yes**	--	2,140	371	**Yes**	9	**Yes**
Soil	PCB Aroclors	Total	Aroclor 1248	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	PCB Aroclors	Total	Aroclor 1254	0-10 ft	N/A	ug/kg	**Yes**	--	1,700	740	**Yes**	2	**Yes**
Soil	PCB Aroclors	Total	Aroclor 1260	0-10 ft	N/A	ug/kg	**Yes**	--	690	740	No	0	No
Soil	PCB Aroclors	Total	Total PCBs as Aroclors	0-10 ft	N/A	ug/kg	**Yes**	--	2,140	740	**Yes**	4	**Yes**
Soil	NWTPH-Dx	Total	Diesel Range Organics	0-1 ft	N/A	mg/kg	**Yes**	--	1,090	23,000	No	0	No
Soil	NWTPH-Dx	Total	Residual Range Organics	0-1 ft	N/A	mg/kg	**Yes**	--	9,450	40,000	No	0	No
Soil	NWTPH-Dx	Total	Diesel Range Organics	0-3 ft	N/A	mg/kg	**Yes**	--	1,440	23,000	No	0	No
Soil	NWTPH-Dx	Total	Residual Range Organics	0-3 ft	N/A	mg/kg	**Yes**	--	9,450	40,000	No	0	No
Soil	NWTPH-Dx	Total	Diesel Range Organics	0-10 ft	N/A	mg/kg	**Yes**	--	9,740	23,000	No	0	No
Soil	NWTPH-Dx	Total	Residual Range Organics	0-10 ft	N/A	mg/kg	**Yes**	--	41,900	40,000	**Yes**	1	**Yes**
Soil	NWTPH-Gx	Total	Gasoline Range Organics	0-1 ft	N/A	mg/kg	**Yes**	--	23,900	13,000	**Yes**	1	**Yes**
Soil	NWTPH-Gx	Total	Gasoline Range Organics	0-3 ft	N/A	mg/kg	**Yes**	--	23,900	13,000	**Yes**	1	**Yes**
Soil	NWTPH-Gx	Total	Gasoline Range Organics	0-10 ft	N/A	mg/kg	**Yes**	--	23,900	13,000	**Yes**	1	**Yes**
Soil	SVOCs	Total	2-Methylnaphthalene	0-1 ft	N/A	ug/kg	**Yes**	--	1,530	4,100,000	No	0	No
Soil	SVOCs	Total	Acenaphthene	0-1 ft	N/A	ug/kg	**Yes**	--	2,600	19,000,000	No	0	No
Soil	SVOCs	Total	Acenaphthylene	0-1 ft	N/A	ug/kg	**Yes**	--	87.7	23,000	No	0	No
Soil	SVOCs	Total	Anthracene	0-1 ft	N/A	ug/kg	**Yes**	--	2,700	93,000,000	No	0	No
Soil	SVOCs	Total	Benzo(a)anthracene	0-1 ft	N/A	ug/kg	**Yes**	--	32,000	2,700	**Yes**	8	**Yes**
Soil	SVOCs	Total	Benzo(a)pyrene	0-1 ft	N/A	ug/kg	**Yes**	--	33,000	270	**Yes**	30	**Yes**
Soil	SVOCs	Total	Benzo(b)fluoranthene	0-1 ft	N/A	ug/kg	**Yes**	--	65,000	2,700	**Yes**	6	**Yes**
Soil	SVOCs	Total	Benzo(g,h,i)perylene	0-1 ft	N/A	ug/kg	**Yes**	--	18,000	27,000	No	0	No
Soil	SVOCs	Total	Benzo(k)fluoranthene	0-1 ft	N/A	ug/kg	**Yes**	--	65,000	27,000	**Yes**	1	**Yes**
Soil	SVOCs	Total	Benzofluoranthenes, Total	0-1 ft	N/A	ug/kg	**Yes**	--	14,700	2,700	**Yes**	4	**Yes**
Soil	SVOCs	Total	Benzoic Acid	0-1 ft	N/A	ug/kg	**Yes**	--	980	200,000	No	0	No
Soil	SVOCs	Total	Benzyl Alcohol	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Bis(2-ethylhexyl) Phthalate	0-1 ft	N/A	ug/kg	**Yes**	--	260,000	4,500	**Yes**	10	**Yes**
Soil	SVOCs	Total	Butyl Benzyl Phthalate	0-1 ft	N/A	ug/kg	**Yes**	--	124	450	No	0	No
Soil	SVOCs	Total	Carbazole	0-1 ft	N/A	ug/kg	**Yes**	--	2,650	2,260	**Yes**	1	**Yes**
Soil	SVOCs	Total	Chrysene	0-1 ft	N/A	ug/kg	**Yes**	--	32,000	270,000	No	0	No
Soil	SVOCs	Total	Dibenz(a,h)anthracene	0-1 ft	N/A	ug/kg	**Yes**	--	9,900	270	**Yes**	13	**Yes**
Soil	SVOCs	Total	Dibenzofuran	0-1 ft	N/A	ug/kg	**Yes**	--	810	2.00	**Yes**	27	**Yes**
Soil	SVOCs	Total	Diethyl Phthalate	0-1 ft	N/A	ug/kg	**Yes**	--	73.4	100,000	No	0	No

Table 9-5
Preliminary-COPC Identification for Combined Data from all Four AOPCs
Bradford Island - Upland Operable Unit
(5 of 16)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	SVOCs	Total	Dimethyl Phthalate	0-1 ft	N/A	ug/kg	**Yes**	--	41.0	150,000	No	0	No
Soil	SVOCs	Total	Di-n-butyl Phthalate	0-1 ft	N/A	ug/kg	**Yes**	--	1,800	450	**Yes**	1	**Yes**
Soil	SVOCs	Total	Di-n-octyl Phthalate	0-1 ft	N/A	ug/kg	**Yes**	--	127	450	No	0	No
Soil	SVOCs	Total	Fluoranthene	0-1 ft	N/A	ug/kg	**Yes**	--	54,000	8,900,000	No	0	No
Soil	SVOCs	Total	Fluorene	0-1 ft	N/A	ug/kg	**Yes**	--	1,200	12,000,000	No	0	No
Soil	SVOCs	Total	Indeno(1,2,3-cd)pyrene	0-1 ft	N/A	ug/kg	**Yes**	--	19,000	2,700	**Yes**	6	**Yes**
Soil	SVOCs	Total	Naphthalene	0-1 ft	N/A	ug/kg	**Yes**	--	823	23,000	No	0	No
Soil	SVOCs	Total	N-Nitrosodiphenylamine	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	p-cresol (4-Methylphenol)	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Pentachlorophenol	0-1 ft	N/A	ug/kg	**Yes**	--	201	2,100	No	0	No
Soil	SVOCs	Total	Phenanthrene	0-1 ft	N/A	ug/kg	**Yes**	--	12,000	23,000	No	0	No
Soil	SVOCs	Total	Phenol	0-1 ft	N/A	ug/kg	No	--	3.70	30,000	No	0	No
Soil	SVOCs	Total	Pyrene	0-1 ft	N/A	ug/kg	**Yes**	--	40,000	6,700,000	No	0	No
Soil	SVOCs	Total	Total HPAHs (KM, capped)	0-1 ft	N/A	ug/kg	**Yes**	**--**	367,900	1,100	**Yes**	36	**Yes**
Soil	SVOCs	Total	Total LPAHs (KM, capped)	0-1 ft	N/A	ug/kg	**Yes**	**--**	18,674	29,000	No	0	No
Soil	SVOCs	Total	2-Methylnaphthalene	0-3 ft	N/A	ug/kg	**Yes**	--	1,530	4,100,000	No	0	No
Soil	SVOCs	Total	Acenaphthene	0-3 ft	N/A	ug/kg	**Yes**	--	3,200	19,000,000	No	0	No
Soil	SVOCs	Total	Acenaphthylene	0-3 ft	N/A	ug/kg	**Yes**	--	295	23,000	No	0	No
Soil	SVOCs	Total	Anthracene	0-3 ft	N/A	ug/kg	**Yes**	--	8,440	93,000,000	No	0	No
Soil	SVOCs	Total	Benzo(a)anthracene	0-3 ft	N/A	ug/kg	**Yes**	--	32,000	2,700	**Yes**	15	**Yes**
Soil	SVOCs	Total	Benzo(a)pyrene	0-3 ft	N/A	ug/kg	**Yes**	--	34,000	270	**Yes**	38	**Yes**
Soil	SVOCs	Total	Benzo(b)fluoranthene	0-3 ft	N/A	ug/kg	**Yes**	--	65,000	2,700	**Yes**	10	**Yes**
Soil	SVOCs	Total	Benzo(g,h,i)perylene	0-3 ft	N/A	ug/kg	**Yes**	--	18,000	27,000	No	0	No
Soil	SVOCs	Total	Benzo(k)fluoranthene	0-3 ft	N/A	ug/kg	**Yes**	--	65,000	27,000	**Yes**	1	**Yes**
Soil	SVOCs	Total	Benzofluoranthenes, Total	0-3 ft	N/A	ug/kg	**Yes**	--	31,300	2,700	**Yes**	8	**Yes**
Soil	SVOCs	Total	Benzoic Acid	0-3 ft	N/A	ug/kg	**Yes**	--	980	200,000	No	0	No
Soil	SVOCs	Total	Benzyl Alcohol	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Bis(2-ethylhexyl) Phthalate	0-3 ft	N/A	ug/kg	**Yes**	--	260,000	4,500	**Yes**	12	**Yes**
Soil	SVOCs	Total	Butyl Benzyl Phthalate	0-3 ft	N/A	ug/kg	**Yes**	--	124	450	No	0	No
Soil	SVOCs	Total	Carbazole	0-3 ft	N/A	ug/kg	**Yes**	--	2,840	2,260	**Yes**	2	**Yes**
Soil	SVOCs	Total	Chrysene	0-3 ft	N/A	ug/kg	**Yes**	--	35,300	270,000	No	0	No
Soil	SVOCs	Total	Dibenz(a,h)anthracene	0-3 ft	N/A	ug/kg	**Yes**	--	9,900	270	**Yes**	21	**Yes**
Soil	SVOCs	Total	Dibenzofuran	0-3 ft	N/A	ug/kg	**Yes**	--	810	2.00	**Yes**	32	**Yes**
Soil	SVOCs	Total	Diethyl Phthalate	0-3 ft	N/A	ug/kg	**Yes**	--	73.4	100,000	No	0	No
Soil	SVOCs	Total	Dimethyl Phthalate	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Di-n-butyl Phthalate	0-3 ft	N/A	ug/kg	**Yes**	--	1,800	450	**Yes**	1	**Yes**
Soil	SVOCs	Total	Di-n-octyl Phthalate	0-3 ft	N/A	ug/kg	**Yes**	--	127	450	No	0	No
Soil	SVOCs	Total	Fluoranthene	0-3 ft	N/A	ug/kg	**Yes**	--	54,000	8,900,000	No	0	No
Soil	SVOCs	Total	Fluorene	0-3 ft	N/A	ug/kg	**Yes**	--	1,610	12,000,000	No	0	No
Soil	SVOCs	Total	Indeno(1,2,3-cd)pyrene	0-3 ft	N/A	ug/kg	**Yes**	--	20,000	2,700	**Yes**	12	**Yes**
Soil	SVOCs	Total	Naphthalene	0-3 ft	N/A	ug/kg	**Yes**	--	823	23,000	No	0	No
Soil	SVOCs	Total	N-Nitrosodiphenylamine	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	p-cresol (4-Methylphenol)	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Pentachlorophenol	0-3 ft	N/A	ug/kg	**Yes**	--	201	2,100	No	0	No
Soil	SVOCs	Total	Phenanthrene	0-3 ft	N/A	ug/kg	**Yes**	--	21,900	23,000	No	0	No
Soil	SVOCs	Total	Phenol	0-3 ft	N/A	ug/kg	**Yes**	--	35.0	30,000	No	0	No

Table 9-5
Preliminary-COPC Identification for Combined Data from all Four AOPCs
Bradford Island - Upland Operable Unit
(6 of 16)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	SVOCs	Total	Pyrene	0-3 ft	N/A	ug/kg	**Yes**	--	67,100	6,700,000	No	0	No
Soil	SVOCs	Total	Total HPAHs (KM, capped)	0-3 ft	N/A	ug/kg	**Yes**	**--**	367,900	1,100	**Yes**	46	**Yes**
Soil	SVOCs	Total	Total LPAHs (KM, capped)	0-3 ft	N/A	ug/kg	**Yes**	**--**	34,767	29,000	No	1	No
Soil	SVOCs	Total	2-Methylnaphthalene	0-10 ft	N/A	ug/kg	**Yes**	--	1,530	4,100,000	No	0	No
Soil	SVOCs	Total	Acenaphthene	0-10 ft	N/A	ug/kg	**Yes**	--	3,200	19,000,000	No	0	No
Soil	SVOCs	Total	Acenaphthylene	0-10 ft	N/A	ug/kg	**Yes**	--	295	23,000	No	0	No
Soil	SVOCs	Total	Anthracene	0-10 ft	N/A	ug/kg	**Yes**	--	8,440	93,000,000	No	0	No
Soil	SVOCs	Total	Benzo(a)anthracene	0-10 ft	N/A	ug/kg	**Yes**	--	32,000	2,700	**Yes**	24	**Yes**
Soil	SVOCs	Total	Benzo(a)pyrene	0-10 ft	N/A	ug/kg	**Yes**	--	34,000	270	**Yes**	48	**Yes**
Soil	SVOCs	Total	Benzo(b)fluoranthene	0-10 ft	N/A	ug/kg	**Yes**	--	65,000	2,700	**Yes**	10	**Yes**
Soil	SVOCs	Total	Benzo(g,h,i)perylene	0-10 ft	N/A	ug/kg	**Yes**	--	18,000	27,000	No	0	No
Soil	SVOCs	Total	Benzo(k)fluoranthene	0-10 ft	N/A	ug/kg	**Yes**	--	65,000	27,000	**Yes**	1	**Yes**
Soil	SVOCs	Total	Benzofluoranthenes, Total	0-10 ft	N/A	ug/kg	**Yes**	--	31,300	2,700	**Yes**	17	**Yes**
Soil	SVOCs	Total	Benzoic Acid	0-10 ft	N/A	ug/kg	**Yes**	--	980	2,500,000,000	No	0	No
Soil	SVOCs	Total	Benzyl Alcohol	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Bis(2-ethylhexyl) Phthalate	0-10 ft	N/A	ug/kg	**Yes**	--	260,000	150,000	**Yes**	1	**Yes**
Soil	SVOCs	Total	Butyl Benzyl Phthalate	0-10 ft	N/A	ug/kg	**Yes**	--	152	910,000	No	0	No
Soil	SVOCs	Total	Carbazole	0-10 ft	N/A	ug/kg	**Yes**	--	2,840	NV	***Yes***	--	***Yes***
Soil	SVOCs	Total	Chrysene	0-10 ft	N/A	ug/kg	**Yes**	--	35,300	270,000	No	0	No
Soil	SVOCs	Total	Dibenz(a,h)anthracene	0-10 ft	N/A	ug/kg	**Yes**	--	9,900	270	**Yes**	28	**Yes**
Soil	SVOCs	Total	Dibenzofuran	0-10 ft	N/A	ug/kg	**Yes**	--	810	1,000,000	No	0	No
Soil	SVOCs	Total	Diethyl Phthalate	0-10 ft	N/A	ug/kg	**Yes**	--	73.4	490,000,000	No	0	No
Soil	SVOCs	Total	Dimethyl Phthalate	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Di-n-butyl Phthalate	0-10 ft	N/A	ug/kg	**Yes**	--	1,800	62,000,000	No	0	No
Soil	SVOCs	Total	Di-n-octyl Phthalate	0-10 ft	N/A	ug/kg	**Yes**	--	127	150,000	No	0	No
Soil	SVOCs	Total	Fluoranthene	0-10 ft	N/A	ug/kg	**Yes**	--	54,000	8,900,000	No	0	No
Soil	SVOCs	Total	Fluorene	0-10 ft	N/A	ug/kg	**Yes**	--	1,610	12,000,000	No	0	No
Soil	SVOCs	Total	Indeno(1,2,3-cd)pyrene	0-10 ft	N/A	ug/kg	**Yes**	--	20,000	2,700	**Yes**	19	**Yes**
Soil	SVOCs	Total	Naphthalene	0-10 ft	N/A	ug/kg	**Yes**	--	1,710	23,000	No	0	No
Soil	SVOCs	Total	N-Nitrosodiphenylamine	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	p-cresol (4-Methylphenol)	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	SVOCs	Total	Pentachlorophenol	0-10 ft	N/A	ug/kg	**Yes**	--	201	13,000	No	0	No
Soil	SVOCs	Total	Phenanthrene	0-10 ft	N/A	ug/kg	**Yes**	--	21,900	23,000	No	0	No
Soil	SVOCs	Total	Phenol	0-10 ft	N/A	ug/kg	**Yes**	--	35.0	180,000,000	No	0	No
Soil	SVOCs	Total	Pyrene	0-10 ft	N/A	ug/kg	**Yes**	--	67,100	6,700,000	No	0	No
Soil	VOCs	Total	1,1,1-Trichloroethane (TCA)	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	1,1-Dichloroethane	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	1,2,4-Trimethylbenzene	0-1 ft	N/A	ug/kg	**Yes**	--	14,300	200,000	No	0	No
Soil	VOCs	Total	1,3,5-Trimethylbenzene	0-1 ft	N/A	ug/kg	**Yes**	--	5,410	150,000	No	0	No
Soil	VOCs	Total	1,4-Dichlorobenzene	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	2-Butanone (MEK)	0-1 ft	N/A	ug/kg	**Yes**	--	50.0	200,000,000	No	0	No
Soil	VOCs	Total	2-Hexanone	0-1 ft	N/A	ug/kg	**Yes**	--	8.80	1,250,000	No	0	No
Soil	VOCs	Total	4-Isopropyltoluene	0-1 ft	N/A	ug/kg	**Yes**	--	12.0	200,000	No	0	No
Soil	VOCs	Total	4-Methyl-2-pentanone (MIBK)	0-1 ft	N/A	ug/kg	**Yes**	--	1.20	1,250,000	No	0	No
Soil	VOCs	Total	Acetone	0-1 ft	N/A	ug/kg	**Yes**	--	540	1,250,000	No	0	No
Soil	VOCs	Total	Benzene	0-1 ft	N/A	ug/kg	**Yes**	--	1.20	1,200	No	0	No

Table 9-5
Preliminary-COPC Identification for Combined Data from all Four AOPCs
Bradford Island - Upland Operable Unit
(7 of 16)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	VOCs	Total	Bromomethane	0-1 ft	N/A	ug/kg	**Yes**	--	5.00	17,000	No	0	No
Soil	VOCs	Total	Carbon Disulfide	0-1 ft	N/A	ug/kg	**Yes**	--	6.90	1,000,000	No	0	No
Soil	VOCs	Total	Chloroform	0-1 ft	N/A	ug/kg	**Yes**	--	19.0	410	No	0	No
Soil	VOCs	Total	Chloromethane	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	cis-1,2-Dichloroethene	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Dichlorodifluoromethane	0-1 ft	N/A	ug/kg	**Yes**	--	94.0	730,000	No	0	No
Soil	VOCs	Total	Dichloromethane (Methylene Chloride)	0-1 ft	N/A	ug/kg	**Yes**	--	460	20,000	No	0	No
Soil	VOCs	Total	Ethylbenzene	0-1 ft	N/A	ug/kg	**Yes**	--	2,700	2,260	**Yes**	1	**Yes**
Soil	VOCs	Total	Isopropylbenzene	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	m,p-Xylenes	0-1 ft	N/A	ug/kg	**Yes**	--	9,800	120,000	No	0	No
Soil	VOCs	Total	Naphthalene	0-1 ft	N/A	ug/kg	**Yes**	--	8,360	23,000	No	0	No
Soil	VOCs	Total	n-Butylbenzene	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	n-Propylbenzene	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	o-Xylene	0-1 ft	N/A	ug/kg	**Yes**	--	0.180	1,000	No	0	No
Soil	VOCs	Total	sec-Butylbenzene	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Styrene	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Tetrachloroethene (PCE)	0-1 ft	N/A	ug/kg	**Yes**	--	65.0	1,600	No	0	No
Soil	VOCs	Total	Toluene	0-1 ft	N/A	ug/kg	**Yes**	--	5.80	200,000	No	0	No
Soil	VOCs	Total	trans-1,2-Dichloroethene	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Trichloroethene (TCE)	0-1 ft	N/A	ug/kg	**Yes**	--	0.171	130	No	0	No
Soil	VOCs	Total	Trichlorofluoromethane	0-1 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	1,1,1-Trichloroethane (TCA)	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	1,1-Dichloroethane	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	1,2,4-Trimethylbenzene	0-3 ft	N/A	ug/kg	**Yes**	--	14,300	200,000	No	0	No
Soil	VOCs	Total	1,3,5-Trimethylbenzene	0-3 ft	N/A	ug/kg	**Yes**	--	6,500	150,000	No	0	No
Soil	VOCs	Total	1,4-Dichlorobenzene	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	2-Butanone (MEK)	0-3 ft	N/A	ug/kg	**Yes**	--	50.0	200,000,000	No	0	No
Soil	VOCs	Total	2-Hexanone	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	4-Isopropyltoluene	0-3 ft	N/A	ug/kg	**Yes**	--	161	200,000	No	0	No
Soil	VOCs	Total	4-Methyl-2-pentanone (MIBK)	0-3 ft	N/A	ug/kg	**Yes**	--	1.20	1,250,000	No	0	No
Soil	VOCs	Total	Acetone	0-3 ft	N/A	ug/kg	**Yes**	--	540	1,250,000	No	0	No
Soil	VOCs	Total	Benzene	0-3 ft	N/A	ug/kg	**Yes**	--	1.20	1,200	No	0	No
Soil	VOCs	Total	Bromomethane	0-3 ft	N/A	ug/kg	**Yes**	--	5.00	17,000	No	0	No
Soil	VOCs	Total	Carbon Disulfide	0-3 ft	N/A	ug/kg	**Yes**	--	6.90	1,000,000	No	0	No
Soil	VOCs	Total	Chloroform	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Chloromethane	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	cis-1,2-Dichloroethene	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Dichlorodifluoromethane	0-3 ft	N/A	ug/kg	**Yes**	--	94.0	730,000	No	0	No
Soil	VOCs	Total	Dichloromethane (Methylene Chloride)	0-3 ft	N/A	ug/kg	**Yes**	--	460	20,000	No	0	No
Soil	VOCs	Total	Ethylbenzene	0-3 ft	N/A	ug/kg	**Yes**	--	2,700	2,260	**Yes**	1	**Yes**
Soil	VOCs	Total	Isopropylbenzene	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	m,p-Xylenes	0-3 ft	N/A	ug/kg	**Yes**	--	9,800	120,000	No	0	No
Soil	VOCs	Total	Naphthalene	0-3 ft	N/A	ug/kg	**Yes**	--	8,360	23,000	No	0	No
Soil	VOCs	Total	n-Butylbenzene	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	n-Propylbenzene	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	o-Xylene	0-3 ft	N/A	ug/kg	**Yes**	--	3,200	1,000	**Yes**	1	**Yes**

Table 9-5
Preliminary-COPC Identification for Combined Data from all Four AOPCs
Bradford Island - Upland Operable Unit
(8 of 16)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil	VOCs	Total	sec-Butylbenzene	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Styrene	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Tetrachloroethene (PCE)	0-3 ft	N/A	ug/kg	**Yes**	--	420,000	1,600	**Yes**	2	**Yes**
Soil	VOCs	Total	Toluene	0-3 ft	N/A	ug/kg	**Yes**	--	39,000	200,000	No	0	No
Soil	VOCs	Total	trans-1,2-Dichloroethene	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Trichloroethene (TCE)	0-3 ft	N/A	ug/kg	**Yes**	--	6,080	130	**Yes**	2	**Yes**
Soil	VOCs	Total	Trichlorofluoromethane	0-3 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	1,1,1-Trichloroethane (TCA)	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	1,1-Dichloroethane	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	1,2,4-Trimethylbenzene	0-10 ft	N/A	ug/kg	**Yes**	--	14,300	980,000	No	0	No
Soil	VOCs	Total	1,3,5-Trimethylbenzene	0-10 ft	N/A	ug/kg	**Yes**	--	6,500	150,000	No	0	No
Soil	VOCs	Total	1,4-Dichlorobenzene	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	2-Butanone (MEK)	0-10 ft	N/A	ug/kg	**Yes**	--	50.0	200,000,000	No	0	No
Soil	VOCs	Total	2-Hexanone	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	4-Isopropyltoluene	0-10 ft	N/A	ug/kg	**Yes**	--	161	NV	***Yes***	--	***Yes***
Soil	VOCs	Total	4-Methyl-2-pentanone (MIBK)	0-10 ft	N/A	ug/kg	**Yes**	--	1.20	53,000,000	No	0	No
Soil	VOCs	Total	Acetone	0-10 ft	N/A	ug/kg	**Yes**	--	540	630,000,000	No	0	No
Soil	VOCs	Total	Benzene	0-10 ft	N/A	ug/kg	**Yes**	--	1.20	1,200	No	0	No
Soil	VOCs	Total	Bromomethane	0-10 ft	N/A	ug/kg	**Yes**	--	5.00	17,000	No	0	No
Soil	VOCs	Total	Carbon Disulfide	0-10 ft	N/A	ug/kg	**Yes**	--	6.90	3,700,000	No	0	No
Soil	VOCs	Total	Chloroform	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Chloromethane	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	cis-1,2-Dichloroethene	0-10 ft	N/A	ug/kg	**Yes**	--	120	3,100,000	No	0	No
Soil	VOCs	Total	Dichlorodifluoromethane	0-10 ft	N/A	ug/kg	**Yes**	--	94.0	780,000	No	0	No
Soil	VOCs	Total	Dichloromethane (Methylene Chloride)	0-10 ft	N/A	ug/kg	**Yes**	--	460	20,000	No	0	No
Soil	VOCs	Total	Ethylbenzene	0-10 ft	N/A	ug/kg	**Yes**	--	2,700	12,000	No	0	No
Soil	VOCs	Total	Isopropylbenzene	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	m,p-Xylenes	0-10 ft	N/A	ug/kg	**Yes**	--	9,800	2,700,000	No	0	No
Soil	VOCs	Total	Naphthalene	0-10 ft	N/A	ug/kg	**Yes**	--	8,360	23,000	No	0	No
Soil	VOCs	Total	n-Butylbenzene	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	n-Propylbenzene	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	o-Xylene	0-10 ft	N/A	ug/kg	**Yes**	--	4,260	19,000,000	No	0	No
Soil	VOCs	Total	sec-Butylbenzene	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Styrene	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Tetrachloroethene (PCE)	0-10 ft	N/A	ug/kg	**Yes**	--	420,000	1,600	**Yes**	3	**Yes**
Soil	VOCs	Total	Toluene	0-10 ft	N/A	ug/kg	**Yes**	--	133,000	24,000,000	No	0	No
Soil	VOCs	Total	trans-1,2-Dichloroethene	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Soil	VOCs	Total	Trichloroethene (TCE)	0-10 ft	N/A	ug/kg	**Yes**	--	6,080	130	**Yes**	2	**Yes**
Soil	VOCs	Total	Trichlorofluoromethane	0-10 ft	N/A	ug/kg	No	--	--	--	--	--	No
Lagoon Sediment	Metals	Total	Copper	N/A	N/A	mg/kg	--	--	25.4	55.6	No	0	No
Lagoon Sediment	Metals	Total	Lead	N/A	N/A	mg/kg	--	--	33.0	35	No	0	No
Lagoon Sediment	Metals	Total	Nickel	N/A	N/A	mg/kg	--	--	15.4	21.2	No	0	No
Lagoon Sediment	Metals	Total	Zinc	N/A	N/A	mg/kg	--	--	174	123	**Yes**	5	**Yes**
Groundwater[3]	Metals	Dissolved	Arsenic	N/A	N/A	mg/L	**Yes**	**Yes**	0.0193	0.0000180	**Yes**	49	**Yes**
Groundwater[3]	Metals	Dissolved	Barium	N/A	N/A	mg/L	--	**Yes**	0.134	0.00400	**Yes**	3	**Yes**

Table 9-5
Preliminary-COPC Identification for Combined Data from all Four AOPCs
Bradford Island - Upland Operable Unit
(9 of 16)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Groundwater[3]	Metals	Dissolved	Calcium	N/A	N/A	mg/L	--	**Yes**	172	116	**Yes**	1	**Yes**
Groundwater[3]	Metals	Dissolved	Iron	N/A	N/A	mg/L	**Yes**	**Yes**	35.4	0.300	**Yes**	16	**Yes**
Groundwater[3]	Metals	Dissolved	Lead	N/A	N/A	mg/L	**Yes**	**Yes**	0.00350	0.00144	**Yes**	3	**Yes**
Groundwater[3]	Metals	Dissolved	Magnesium	N/A	N/A	mg/L	--	**Yes**	25.8	82.0	No	0	No
Groundwater[3]	Metals	Dissolved	Manganese	N/A	N/A	mg/L	**Yes**	**Yes**	5.55	0.0500	**Yes**	20	**Yes**
Groundwater[3]	Metals	Dissolved	Nickel	N/A	N/A	mg/L	--	**Yes**	0.0187	0.0340	No	0	No
Groundwater[3]	Metals	Dissolved	Potassium	N/A	N/A	mg/L	--	**Yes**	12.9	53.0	No	0	No
Groundwater[3]	Metals	Dissolved	Sodium	N/A	N/A	mg/L	--	**Yes**	740	680	**Yes**	1	**Yes**
Groundwater[3]	Metals	Dissolved	Vanadium	N/A	N/A	mg/L	**Yes**	**Yes**	0.00310	0.00260	**Yes**	1	**Yes**
Groundwater[3]	Metals	Dissolved	Zinc	N/A	N/A	mg/L	--	**Yes**	0.197	0.077	**Yes**	1	**Yes**
Groundwater[3]	Metals	Total	Antimony	N/A	N/A	mg/L	--	**Yes**	0.00389	0.00560	No	0	No
Groundwater[3]	Metals	Total	Arsenic	N/A	N/A	mg/L	**Yes**	**Yes**	0.0213	0.0000180	**Yes**	63	**Yes**
Groundwater[3]	Metals	Total	Barium	N/A	N/A	mg/L	--	**Yes**	0.304	1.00	No	0	No
Groundwater[3]	Metals	Total	Beryllium	N/A	N/A	mg/L	--	**Yes**	0.000435	0.0730	No	0	No
Groundwater[3]	Metals	Total	Cadmium	N/A	N/A	mg/L	--	**Yes**	0.00560	0.0180	No	0	No
Groundwater[3]	Metals	Total	Chromium	N/A	N/A	mg/L	--	**Yes**	0.0185	55.0	No	0	No
Groundwater[3]	Metals	Total	Copper	N/A	N/A	mg/L	--	**Yes**	0.201	1.30	No	0	No
Groundwater[3]	Metals	Total	Iron	N/A	N/A	mg/L	**Yes**	**Yes**	42.9	0.300	**Yes**	36	**Yes**
Groundwater[3]	Metals	Total	Lead	N/A	N/A	mg/L	**Yes**	**Yes**	0.0782	0.0150	**Yes**	2	**Yes**
Groundwater[3]	Metals	Total	Manganese	N/A	N/A	mg/L	**Yes**	**Yes**	5.39	0.0500	**Yes**	35	**Yes**
Groundwater[3]	Metals	Total	Mercury	N/A	N/A	mg/L	**Yes**	**Yes**	0.000330	0.0110	No	0	No
Groundwater[3]	Metals	Total	Nickel	N/A	N/A	mg/L	--	**Yes**	0.117	0.610	No	0	No
Groundwater[3]	Metals	Total	Selenium	N/A	N/A	mg/L	--	**Yes**	0.0329	0.170	No	0	No
Groundwater[3]	Metals	Total	Silver	N/A	N/A	mg/L	--	**Yes**	0.000658	0.180	No	0	No
Groundwater[3]	Metals	Total	Thallium	N/A	N/A	mg/L	--	**Yes**	0.000323	0.000240	**Yes**	2	**Yes**
Groundwater[3]	Metals	Total	Vanadium	N/A	N/A	mg/L	**Yes**	**Yes**	0.00590	0.00260	**Yes**	1	**Yes**
Groundwater[3]	Metals	Total	Zinc	N/A	N/A	mg/L	--	**Yes**	2.66	7.40	No	0	No
Groundwater[3]	Butyltins	Total	Dibutyltin	N/A	N/A	ug/L	**Yes**	--	0.447	0.0630	**Yes**	6	**Yes**
Groundwater[3]	Butyltins	Total	Monobutyltin	N/A	N/A	ug/L	**Yes**	--	0.240	0.0630	**Yes**	1	**Yes**
Groundwater[3]	Butyltins	Total	Tributyltin	N/A	N/A	ug/L	**--**	--	0.0601	0.0630	No	0	No
Groundwater[3]	Herbicides	Total	4-Nitrophenol	N/A	N/A	ug/L	--	--	0.840	150	No	0	No
Groundwater[3]	Herbicides	Total	Dichloroprop	N/A	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	Herbicides	Total	Pentachlorophenol	N/A	N/A	ug/L	--	--	0.112	0.270	No	0	No
Groundwater[3]	Pesticides	Total	4,4'-DDE	N/A	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	Pesticides	Total	Dieldrin	N/A	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	NWTPH-Dx	Total	Diesel Range Organics	N/A	N/A	mg/L	**Yes**	--	1.80	0.0900	**Yes**	30	**Yes**
Groundwater[3]	NWTPH-Dx	Total	Residual Range Organics	N/A	N/A	mg/L	**Yes**	--	1.90	0.290	**Yes**	12	**Yes**
Groundwater[3]	NWTPH-Gx	Total	Gasoline Range Organics	N/A	N/A	mg/L	**Yes**	--	0.430	0.100	**Yes**	5	**Yes**
Groundwater[3]	SVOCs	Total	1,4-Dichlorobenzene	N/A	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	SVOCs	Total	2-Methylnaphthalene	N/A	N/A	ug/L	**Yes**	--	0.360	72.2	No	0	No
Groundwater[3]	SVOCs	Total	2-Methylphenol	N/A	N/A	ug/L	No	--	--	--	--	--	No

Table 9-5
Preliminary-COPC Identification for Combined Data from all Four AOPCs
Bradford Island - Upland Operable Unit
(10 of 16)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Groundwater[3]	SVOCs	Total	Acenaphthene	N/A	N/A	ug/L	**Yes**	--	0.239	520	No	0	No
Groundwater[3]	SVOCs	Total	Anthracene	N/A	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	SVOCs	Total	Benzo(b)fluoranthene	N/A	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	SVOCs	Total	Benzoic Acid	N/A	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	SVOCs	Total	Bis(2-ethylhexyl) Phthalate	N/A	N/A	ug/L	**Yes**	--	48.0	1.20	**Yes**	6	**Yes**
Groundwater[3]	SVOCs	Total	Diethyl Phthalate	N/A	N/A	ug/L	**Yes**	--	1.90	210	No	0	No
Groundwater[3]	SVOCs	Total	Dimethyl Phthalate	N/A	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	SVOCs	Total	Di-n-octyl Phthalate	N/A	N/A	ug/L	**Yes**	--	7.08	1.20	**Yes**	3	**Yes**
Groundwater[3]	SVOCs	Total	Isophorone	N/A	N/A	ug/L	**Yes**	--	0.282	35.0	No	0	No
Groundwater[3]	SVOCs	Total	Naphthalene	N/A	N/A	ug/L	**Yes**	--	0.157	0.140	**Yes**	1	**Yes**
Groundwater[3]	SVOCs	Total	p-cresol (4-Methylphenol)	N/A	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	SVOCs	Total	Phenanthrene	N/A	N/A	ug/L	**Yes**	--	3.90	0.140	**Yes**	4	**Yes**
Groundwater[3]	SVOCs	Total	Phenol	N/A	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	SVOCs	Total	Pyrene	N/A	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	VOCs	Total	1,1,1-Trichloroethane (TCA)	N/A	N/A	ug/L	**Yes**	--	1.90	11.0	No	0	No
Groundwater[3]	VOCs	Total	1,1-Dichloroethane	N/A	N/A	ug/L	**Yes**	--	5.00	2.30	**Yes**	1	**Yes**
Groundwater[3]	VOCs	Total	1,1-Dichloroethene	N/A	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	VOCs	Total	1,2,4-Trimethylbenzene	N/A	N/A	ug/L	**Yes**	--	5.20	7.30	No	0	No
Groundwater[3]	VOCs	Total	4-Methyl-2-pentanone (MIBK)	N/A	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	VOCs	Total	Acetone	N/A	N/A	ug/L	**Yes**	--	15.4	1500	No	0	No
Groundwater[3]	VOCs	Total	Carbon Disulfide	N/A	N/A	ug/L	**Yes**	--	3.95	0.920	**Yes**	1	**Yes**
Groundwater[3]	VOCs	Total	Carbon Tetrachloride	N/A	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	VOCs	Total	Chloroform	N/A	N/A	ug/L	**Yes**	--	3.70	0.190	**Yes**	7	**Yes**
Groundwater[3]	VOCs	Total	cis-1,2-Dichloroethene	N/A	N/A	ug/L	**Yes**	--	660	360	**Yes**	4	**Yes**
Groundwater[3]	VOCs	Total	Dichloromethane (Methylene Chloride)	N/A	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	VOCs	Total	Ethylbenzene	N/A	N/A	ug/L	No	--	--	--	--	--	No
Groundwater[3]	VOCs	Total	Isopropylbenzene	N/A	N/A	ug/L	**Yes**	--	4.60	7.30	No	0	No
Groundwater[3]	VOCs	Total	n-Propylbenzene	N/A	N/A	ug/L	**Yes**	--	2.00	7.30	No	0	No
Groundwater[3]	VOCs	Total	Tetrachloroethene (PCE)	N/A	N/A	ug/L	**Yes**	--	8.78	0.0930	**Yes**	29	**Yes**
Groundwater[3]	VOCs	Total	Toluene	N/A	N/A	ug/L	**Yes**	--	0.640	9.80	No	0	No
Groundwater[3]	VOCs	Total	trans-1,2-Dichloroethene	N/A	N/A	ug/L	**Yes**	--	1.70	110	No	0	No
Groundwater[3]	VOCs	Total	Trichloroethene (TCE)	N/A	N/A	ug/L	**Yes**	--	3.40	0.0390	**Yes**	15	**Yes**
Groundwater[3]	VOCs	Total	Vinyl Chloride	N/A	N/A	ug/L	**Yes**	--	4.10	0.0250	**Yes**	20	**Yes**
Groundwater - DP[3]	Metals	Dissolved	Aluminum	N/A	N/A	mg/L	--	--	1.37	0.0870	**Yes**	2	**Yes**
Groundwater - DP[3]	Metals	Dissolved	Antimony	N/A	N/A	mg/L	--	--	0.00167	0.00560	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Arsenic	N/A	N/A	mg/L	--	--	0.00136	0.0000180	**Yes**	10	**Yes**
Groundwater - DP[3]	Metals	Dissolved	Barium	N/A	N/A	mg/L	--	--	0.0207	0.00400	**Yes**	8	**Yes**
Groundwater - DP[3]	Metals	Dissolved	Cadmium	N/A	N/A	mg/L	--	--	0.0000300	0.000170	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Calcium	N/A	N/A	mg/L	--	--	34.1	116	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Chromium	N/A	N/A	mg/L	--	--	0.00429	0.0540	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Cobalt	N/A	N/A	mg/L	--	--	0.00508	0.0110	No	0	No

Table 9-5
Preliminary-COPC Identification for Combined Data from all Four AOPCs
Bradford Island - Upland Operable Unit
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Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Groundwater - DP[3]	Metals	Dissolved	Copper	N/A	N/A	mg/L	--	--	0.00438	0.00580	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Iron	N/A	N/A	mg/L	--	--	0.476	0.300	**Yes**	1	**Yes**
Groundwater - DP[3]	Metals	Dissolved	Lead	N/A	N/A	mg/L	--	--	0.000378	0.00144	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Magnesium	N/A	N/A	mg/L	--	--	12.0	82.0	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Manganese	N/A	N/A	mg/L	--	--	0.587	0.0500	**Yes**	4	**Yes**
Groundwater - DP[3]	Metals	Dissolved	Mercury	N/A	N/A	mg/L	--	--	0.0000600	0.000770	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Nickel	N/A	N/A	mg/L	--	--	0.00390	0.0340	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Potassium	N/A	N/A	mg/L	--	--	2.21	53.0	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Selenium	N/A	N/A	mg/L	--	--	0.00130	0.00500	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Silver	N/A	N/A	mg/L	--	--	0.0000790	0.000120	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Sodium	N/A	N/A	mg/L	--	--	47.7	680	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Thallium	N/A	N/A	mg/L	--	--	0.0000855	0.000240	No	0	No
Groundwater - DP[3]	Metals	Dissolved	Vanadium	N/A	N/A	mg/L	--	--	0.00261	0.00260	**Yes**	1	**Yes**
Groundwater - DP[3]	Metals	Dissolved	Zinc	N/A	N/A	mg/L	--	--	0.00410	0.077	No	0	No
Groundwater - DP[3]	Metals	Total	Aluminum	N/A	N/A	mg/L	--	--	17.9	37.0	No	0	No
Groundwater - DP[3]	Metals	Total	Antimony	N/A	N/A	mg/L	--	--	0.00157	0.00560	No	0	No
Groundwater - DP[3]	Metals	Total	Arsenic	N/A	N/A	mg/L	--	--	0.00770	0.0000180	**Yes**	8	**Yes**
Groundwater - DP[3]	Metals	Total	Barium	N/A	N/A	mg/L	--	--	0.0978	1.00	No	0	No
Groundwater - DP[3]	Metals	Total	Beryllium	N/A	N/A	mg/L	--	--	0.000785	0.0730	No	0	No
Groundwater - DP[3]	Metals	Total	Calcium	N/A	N/A	mg/L	--	--	33.7	NV	***Yes***	--	***Yes***
Groundwater - DP[3]	Metals	Total	Chromium	N/A	N/A	mg/L	--	--	0.0318	55.0	No	0	No
Groundwater - DP[3]	Metals	Total	Cobalt	N/A	N/A	mg/L	--	--	0.0131	0.0110	**Yes**	1	**Yes**
Groundwater - DP[3]	Metals	Total	Copper	N/A	N/A	mg/L	--	--	0.204	1.30	No	0	No
Groundwater - DP[3]	Metals	Total	Iron	N/A	N/A	mg/L	--	--	25.9	0.300	**Yes**	8	**Yes**
Groundwater - DP[3]	Metals	Total	Lead	N/A	N/A	mg/L	--	--	0.0137	0.0150	No	0	No
Groundwater - DP[3]	Metals	Total	Magnesium	N/A	N/A	mg/L	--	--	15.4	NV	***Yes***	--	***Yes***
Groundwater - DP[3]	Metals	Total	Manganese	N/A	N/A	mg/L	--	--	0.709	0.0500	**Yes**	7	**Yes**
Groundwater - DP[3]	Metals	Total	Mercury	N/A	N/A	mg/L	--	--	0.000100	0.0110	No	0	No
Groundwater - DP[3]	Metals	Total	Nickel	N/A	N/A	mg/L	--	--	0.0501	0.610	No	0	No
Groundwater - DP[3]	Metals	Total	Potassium	N/A	N/A	mg/L	--	--	3.21	NV	***Yes***	--	***Yes***
Groundwater - DP[3]	Metals	Total	Selenium	N/A	N/A	mg/L	--	--	0.00206	0.170	No	0	No
Groundwater - DP[3]	Metals	Total	Silver	N/A	N/A	mg/L	--	--	0.000376	0.180	No	0	No
Groundwater - DP[3]	Metals	Total	Sodium	N/A	N/A	mg/L	--	--	42.9	NV	***Yes***	--	***Yes***
Groundwater - DP[3]	Metals	Total	Thallium	N/A	N/A	mg/L	--	--	0.000146	0.000240	No	0	No
Groundwater - DP[3]	Metals	Total	Vanadium	N/A	N/A	mg/L	--	--	0.0776	0.00260	**Yes**	7	**Yes**
Groundwater - DP[3]	Metals	Total	Zinc	N/A	N/A	mg/L	--	--	0.149	7.40	No	0	No
Groundwater - DP[3]	Butyltins	Total	Monobutyltin	N/A	N/A	ug/L	--	--	0.00671	0.0630	No	0	No
Groundwater - DP[3]	Butyltins	Total	Tributyltin	N/A	N/A	ug/L	--	--	0.00435	0.0630	No	0	No
Groundwater - DP[3]	Pesticides	Total	BHC (gamma) Lindane	N/A	N/A	ug/L	--	--	0.00249	0.0520	No	0	No
Groundwater - DP[3]	Pesticides	Total	Methoxychlor	N/A	N/A	ug/L	--	--	0.00521	0.0300	No	0	No
Groundwater - DP[3]	NWTPH-Dx	Total	Residual Range Organics	N/A	N/A	mg/L	--	--	0.113	0.290	No	0	No

Table 9-5
Preliminary-COPC Identification for Combined Data from all Four AOPCs
Bradford Island - Upland Operable Unit
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Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Groundwater - DP[3]	NWTPH-Gx	Total	Gasoline Range Organics	N/A	N/A	mg/L	--	--	0.0209	0.100	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	2-Methylnaphthalene	N/A	N/A	ug/L	--	--	0.280	72.2	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	Acenaphthene	N/A	N/A	ug/L	--	--	0.0348	520	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	Acenaphthylene	N/A	N/A	ug/L	--	--	0.00361	0.140	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	Benzo(a)pyrene	N/A	N/A	ug/L	--	--	0.00714	0.00290	**Yes**	1	**Yes**
Groundwater - DP[3]	SVOCs	Dissolved	Benzoic Acid	N/A	N/A	ug/L	--	--	0.317	42.0	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	Butyl Benzyl Phthalate	N/A	N/A	ug/L	--	--	0.155	19.0	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	Dibenz(a,h)anthracene	N/A	N/A	ug/L	--	--	0.00381	0.00290	**Yes**	1	**Yes**
Groundwater - DP[3]	SVOCs	Dissolved	Diethyl Phthalate	N/A	N/A	ug/L	--	--	0.101	210	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	Di-n-butyl Phthalate	N/A	N/A	ug/L	--	--	0.207	35.0	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	Fluorene	N/A	N/A	ug/L	--	--	0.0116	3.90	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	Indeno(1,2,3-cd)pyrene	N/A	N/A	ug/L	--	--	0.00630	0.00380	**Yes**	1	**Yes**
Groundwater - DP[3]	SVOCs	Dissolved	Isophorone	N/A	N/A	ug/L	--	--	0.0782	35.0	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	Naphthalene	N/A	N/A	ug/L	--	--	0.200	0.140	**Yes**	3	**Yes**
Groundwater - DP[3]	SVOCs	Dissolved	Phenanthrene	N/A	N/A	ug/L	--	--	0.0190	0.140	No	0	No
Groundwater - DP[3]	SVOCs	Dissolved	Phenol	N/A	N/A	ug/L	--	--	0.0248	110	No	0	No
Groundwater - DP[3]	SVOCs	Total	2-Methylnaphthalene	N/A	N/A	ug/L	--	--	0.153	72.2	No	0	No
Groundwater - DP[3]	SVOCs	Total	Acenaphthene	N/A	N/A	ug/L	--	--	0.0230	520	No	0	No
Groundwater - DP[3]	SVOCs	Total	Anthracene	N/A	N/A	ug/L	--	--	0.0126	0.140	No	0	No
Groundwater - DP[3]	SVOCs	Total	Benzo(a)pyrene	N/A	N/A	ug/L	--	--	0.00895	0.00290	**Yes**	1	**Yes**
Groundwater - DP[3]	SVOCs	Total	Benzofluoranthenes, Total	N/A	N/A	ug/L	--	--	0.0173	0.00380	**Yes**	1	**Yes**
Groundwater - DP[3]	SVOCs	Total	Benzyl Alcohol	N/A	N/A	ug/L	--	--	0.0523	8.60	No	0	No
Groundwater - DP[3]	SVOCs	Total	Bis(2-ethylhexyl) Phthalate	N/A	N/A	ug/L	--	--	0.408	1.20	**Yes**	0	No
Groundwater - DP[3]	SVOCs	Total	Butyl Benzyl Phthalate	N/A	N/A	ug/L	--	--	0.228	19.0	No	0	No
Groundwater - DP[3]	SVOCs	Total	Dibenz(a,h)anthracene	N/A	N/A	ug/L	--	--	0.00671	0.00290	**Yes**	1	**Yes**
Groundwater - DP[3]	SVOCs	Total	Dibenzofuran	N/A	N/A	ug/L	--	--	0.0421	3.70	No	0	No
Groundwater - DP[3]	SVOCs	Total	Di-n-butyl Phthalate	N/A	N/A	ug/L	--	--	0.239	35.0	No	0	No
Groundwater - DP[3]	SVOCs	Total	Fluoranthene	N/A	N/A	ug/L	--	--	0.0311	35.0	No	0	No
Groundwater - DP[3]	SVOCs	Total	Fluorene	N/A	N/A	ug/L	--	--	0.0351	3.90	No	0	No
Groundwater - DP[3]	SVOCs	Total	Indeno(1,2,3-cd)pyrene	N/A	N/A	ug/L	--	--	0.00797	0.00380	**Yes**	1	**Yes**
Groundwater - DP[3]	SVOCs	Total	Isophorone	N/A	N/A	ug/L	--	--	0.0842	35.0	No	0	No
Groundwater - DP[3]	SVOCs	Total	Naphthalene	N/A	N/A	ug/L	--	--	0.0452	0.140	No	0	No
Groundwater - DP[3]	SVOCs	Total	Phenanthrene	N/A	N/A	ug/L	--	--	0.144	0.140	**Yes**	1	**Yes**
Groundwater - DP[3]	SVOCs	Total	Phenol	N/A	N/A	ug/L	--	--	0.0291	110	No	0	No
Groundwater - DP[3]	SVOCs	Total	Pyrene	N/A	N/A	ug/L	--	--	0.0261	10.1	No	0	No
Groundwater - DP[3]	VOCs	Total	1,1,1-Trichloroethane (TCA)	N/A	N/A	ug/L	--	--	2.23	11.0	No	0	No
Groundwater - DP[3]	VOCs	Total	1,1-Dichloroethane	N/A	N/A	ug/L	--	--	2.52	2.30	**Yes**	1	**Yes**
Groundwater - DP[3]	VOCs	Total	1,1-Dichloroethene	N/A	N/A	ug/L	--	--	1.17	25.0	No	0	No
Groundwater - DP[3]	VOCs	Total	1,2,4-Trimethylbenzene	N/A	N/A	ug/L	--	--	0.0485	7.30	No	0	No
Groundwater - DP[3]	VOCs	Total	1,3,5-Trimethylbenzene	N/A	N/A	ug/L	--	--	0.0297	7.30	No	0	No
Groundwater - DP[3]	VOCs	Total	2,2-Dichloropropane	N/A	N/A	ug/L	--	--	0.179	0.390	No	0	No

Table 9-5
Preliminary-COPC Identification for Combined Data from all Four AOPCs
Bradford Island - Upland Operable Unit
(13 of 16)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Groundwater - DP[3]	VOCs	Total	Acetone	N/A	N/A	ug/L	--	--	3.88	1500	No	0	No
Groundwater - DP[3]	VOCs	Total	Benzene	N/A	N/A	ug/L	--	--	0.137	0.390	No	0	No
Groundwater - DP[3]	VOCs	Total	Bromoform	N/A	N/A	ug/L	--	--	0.151	4.30	No	0	No
Groundwater - DP[3]	VOCs	Total	Carbon Disulfide	N/A	N/A	ug/L	--	--	0.0619	0.920	No	0	No
Groundwater - DP[3]	VOCs	Total	Chloroform	N/A	N/A	ug/L	--	--	0.174	0.190	No	0	No
Groundwater - DP[3]	VOCs	Total	cis-1,2-Dichloroethene	N/A	N/A	ug/L	--	--	341	360	No	0	No
Groundwater - DP[3]	VOCs	Total	Ethylbenzene	N/A	N/A	ug/L	--	--	0.045	1.40	No	0	No
Groundwater - DP[3]	VOCs	Total	Isopropylbenzene	N/A	N/A	ug/L	--	--	0.0197	7.30	No	0	No
Groundwater - DP[3]	VOCs	Total	m,p-Xylenes	N/A	N/A	ug/L	--	--	0.132	13.0	No	0	No
Groundwater - DP[3]	VOCs	Total	Naphthalene	N/A	N/A	ug/L	--	--	0.0452	0.140	No	0	No
Groundwater - DP[3]	VOCs	Total	o-Xylene	N/A	N/A	ug/L	--	--	0.0735	350	No	0	No
Groundwater - DP[3]	VOCs	Total	Tetrachloroethene (PCE)	N/A	N/A	ug/L	--	--	54.5	0.0930	**Yes**	10	**Yes**
Groundwater - DP[3]	VOCs	Total	Toluene	N/A	N/A	ug/L	--	--	0.299	9.80	No	0	No
Groundwater - DP[3]	VOCs	Total	trans-1,2-Dichloroethene	N/A	N/A	ug/L	--	--	1.80	110	No	0	No
Groundwater - DP[3]	VOCs	Total	Trichloroethene (TCE)	N/A	N/A	ug/L	--	--	43.7	0.0390	**Yes**	9	**Yes**
Groundwater - DP[3]	VOCs	Total	Vinyl Chloride	N/A	N/A	ug/L	--	--	0.611	0.0250	**Yes**	2	**Yes**
Seep Water[3]	Metals	Dissolved	Antimony	N/A	N/A	mg/L	--	--	0.00228	0.00560	No	0	No
Seep Water[3]	Metals	Dissolved	Arsenic	N/A	N/A	mg/L	--	--	0.00100	0.0000180	**Yes**	3	**Yes**
Seep Water[3]	Metals	Dissolved	Barium	N/A	N/A	mg/L	--	--	0.277	0.00400	**Yes**	1	**Yes**
Seep Water[3]	Metals	Dissolved	Calcium	N/A	N/A	mg/L	--	--	76.4	116	No	0	No
Seep Water[3]	Metals	Dissolved	Copper	N/A	N/A	mg/L	--	--	0.00109	0.00580	No	0	No
Seep Water[3]	Metals	Dissolved	Iron	N/A	N/A	mg/L	--	--	3.21	0.300	**Yes**	1	**Yes**
Seep Water[3]	Metals	Dissolved	Lead	N/A	N/A	mg/L	--	--	0.0000650	0.00144	No	0	No
Seep Water[3]	Metals	Dissolved	Magnesium	N/A	N/A	mg/L	--	--	16.6	82.0	No	0	No
Seep Water[3]	Metals	Dissolved	Manganese	N/A	N/A	mg/L	--	--	1.48	0.0500	**Yes**	1	**Yes**
Seep Water[3]	Metals	Dissolved	Nickel	N/A	N/A	mg/L	--	--	0.00222	0.0340	No	0	No
Seep Water[3]	Metals	Dissolved	Potassium	N/A	N/A	mg/L	--	--	4.16	53.0	No	0	No
Seep Water[3]	Metals	Dissolved	Sodium	N/A	N/A	mg/L	--	--	19.7	680	No	0	No
Seep Water[3]	Metals	Dissolved	Zinc	N/A	N/A	mg/L	--	--	0.0856	0.077	**Yes**	1	**Yes**
Seep Water[3]	Metals	Total	Arsenic	N/A	N/A	mg/L	--	--	0.0128	0.0000180	**Yes**	4	**Yes**
Seep Water[3]	Metals	Total	Barium	N/A	N/A	mg/L	--	--	0.0742	1.00	No	0	No
Seep Water[3]	Metals	Total	Chromium	N/A	N/A	mg/L	--	--	0.00105	55.0	No	0	No
Seep Water[3]	Metals	Total	Copper	N/A	N/A	mg/L	--	--	0.00272	1.30	No	0	No
Seep Water[3]	Metals	Total	Iron	N/A	N/A	mg/L	--	--	121	0.300	**Yes**	4	**Yes**
Seep Water[3]	Metals	Total	Lead	N/A	N/A	mg/L	--	--	0.0257	0.0150	**Yes**	1	**Yes**
Seep Water[3]	Metals	Total	Manganese	N/A	N/A	mg/L	--	--	3.24	0.0500	**Yes**	3	**Yes**
Seep Water[3]	Metals	Total	Mercury	N/A	N/A	mg/L	--	--	0.0000300	0.0110	No	0	No
Seep Water[3]	Metals	Total	Nickel	N/A	N/A	mg/L	--	--	0.00232	0.610	No	0	No
Seep Water[3]	Metals	Total	Selenium	N/A	N/A	mg/L	--	--	0.00111	0.170	No	0	No
Seep Water[3]	NWTPH-Dx	Total	Diesel Range Organics	N/A	N/A	mg/L	--	--	0.130	0.0900	**Yes**	1	**Yes**
Seep Water[3]	NWTPH-Dx	Total	Residual Range Organics	N/A	N/A	mg/L	--	--	0.130	0.290	No	0	No

Table 9-5
Preliminary-COPC Identification for Combined Data from all Four AOPCs
Bradford Island - Upland Operable Unit
(14 of 16)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Seep Water[3]	SVOCs	Total	Benzoic Acid	N/A	N/A	ug/L	--	--	5.90	42.0	No	0	No
Seep Water[3]	VOCs	Total	Chloroform	N/A	N/A	ug/L	--	--	2.80	0.190	**Yes**	2	**Yes**
Seep Water[3]	VOCs	Total	Tetrachloroethene (PCE)	N/A	N/A	ug/L	--	--	4.40	0.0930	**Yes**	3	**Yes**
Surface Water[3]	Metals	Dissolved	Arsenic	N/A	N/A	mg/L	--	--	0.00101	0.0000180	**Yes**	4	**Yes**
Surface Water[3]	Metals	Dissolved	Calcium	N/A	N/A	mg/L	--	--	20.5	116	No	0	No
Surface Water[3]	Metals	Dissolved	Iron	N/A	N/A	mg/L	--	--	0.00920	0.300	No	0	No
Surface Water[3]	Metals	Dissolved	Lead	N/A	N/A	mg/L	--	--	0.0000160	0.00144	No	0	No
Surface Water[3]	Metals	Dissolved	Magnesium	N/A	N/A	mg/L	--	--	6.33	82.0	No	0	No
Surface Water[3]	Metals	Dissolved	Manganese	N/A	N/A	mg/L	--	--	0.00101	0.0500	No	0	No
Surface Water[3]	Metals	Dissolved	Potassium	N/A	N/A	mg/L	--	--	1.51	53.0	No	0	No
Surface Water[3]	Metals	Dissolved	Sodium	N/A	N/A	mg/L	--	--	7.90	680	No	0	No
Surface Water[3]	Metals	Total	Arsenic	N/A	N/A	mg/L	--	--	0.00117	0.0000180	**Yes**	3	**Yes**
Surface Water[3]	Metals	Total	Iron	N/A	N/A	mg/L	--	--	0.446	0.300	**Yes**	1	**Yes**
Surface Water[3]	Metals	Total	Lead	N/A	N/A	mg/L	--	--	0.000407	0.0150	No	0	No
Surface Water[3]	Metals	Total	Manganese	N/A	N/A	mg/L	--	--	0.0136	0.0500	No	0	No
Surface Water[3]	NWTPH-Dx	Total	Diesel Range Organics	N/A	N/A	mg/L	--	--	0.0300	0.0900	No	0	No
Soil Gas	VOCs	Total	1,1,1-Trichloroethane (TCA)	N/A	N/A	ug/m3	--	--	98.0	22,000,000	No	0	No
Soil Gas	VOCs	Total	1,2,4-Trimethylbenzene	N/A	N/A	ug/m3	--	--	18,500	31,000	No	0	No
Soil Gas	VOCs	Total	1,3,5-Trimethylbenzene	N/A	N/A	ug/m3	--	--	6,250	26,000	No	0	No
Soil Gas	VOCs	Total	1,3-Butadiene	N/A	N/A	ug/m3	--	--	210	410	No	0	No
Soil Gas	VOCs	Total	1,4-Dioxane	N/A	N/A	ug/m3	--	--	1.10	1,600	No	0	No
Soil Gas	VOCs	Total	2,2,4-Trimethylpentane	N/A	N/A	ug/m3	--	--	1.80	NV	**Yes**	--	**Yes**
Soil Gas	VOCs	Total	2-Butanone (MEK)	N/A	N/A	ug/m3	--	--	31.0	22,000,000	No	0	No
Soil Gas	VOCs	Total	4-Ethyltoluene	N/A	N/A	ug/m3	--	--	9,150	NV	***Yes***	--	***Yes***
Soil Gas	VOCs	Total	4-Methyl-2-pentanone (MIBK)	N/A	N/A	ug/m3	--	--	2.10	13,000,000	No	0	No
Soil Gas	VOCs	Total	Acetone	N/A	N/A	ug/m3	--	--	97.0	140,000,000	No	0	No
Soil Gas	VOCs	Total	Benzene	N/A	N/A	ug/m3	--	--	85.0	1,600	No	0	No
Soil Gas	VOCs	Total	Carbon Disulfide	N/A	N/A	ug/m3	--	--	42.0	3,100,000	No	0	No
Soil Gas	VOCs	Total	Chloroform	N/A	N/A	ug/m3	--	--	0.750	530	No	0	No
Soil Gas	VOCs	Total	cis-1,2-Dichloroethene	N/A	N/A	ug/m3	--	--	330	260,000	No	0	No
Soil Gas	VOCs	Total	Cyclohexane	N/A	N/A	ug/m3	--	--	24.0	26,000,000	No	0	No
Soil Gas	VOCs	Total	Dichlorodifluoromethane	N/A	N/A	ug/m3	--	--	3.20	880,000	No	0	No
Soil Gas	VOCs	Total	Dichloromethane (Methylene Chloride)	N/A	N/A	ug/m3	--	--	1.80	26,000	No	0	No
Soil Gas	VOCs	Total	Ethanol	N/A	N/A	ug/m3	--	--	13.0	NV	***Yes***	--	***Yes***
Soil Gas	VOCs	Total	Ethylbenzene	N/A	N/A	ug/m3	--	--	1,550	4,900	No	0	No
Soil Gas	VOCs	Total	Heptane	N/A	N/A	ug/m3	--	--	87.0	NV	***Yes***	--	***Yes***
Soil Gas	VOCs	Total	Hexane	N/A	N/A	ug/m3	--	--	110	3,100,000	No	0	No
Soil Gas	VOCs	Total	Isopropylbenzene	N/A	N/A	ug/m3	--	--	675	1,800,000	No	0	No
Soil Gas	VOCs	Total	m,p-Xylenes	N/A	N/A	ug/m3	--	--	5,850	440,000	No	0	No
Soil Gas	VOCs	Total	n-Propylbenzene	N/A	N/A	ug/m3	--	--	2,300	4,400,000	No	0	No
Soil Gas	VOCs	Total	o-Xylene	N/A	N/A	ug/m3	--	--	2,800	3,100,000	No	0	No
Soil Gas	VOCs	Total	Tetrachloroethene (PCE)	N/A	N/A	ug/m3	--	--	34,000	2,100	**Yes**	1	**Yes**
Soil Gas	VOCs	Total	Toluene	N/A	N/A	ug/m3	--	--	47,500	22,000,000	No	0	No
Soil Gas	VOCs	Total	trans-1,2-Dichloroethene	N/A	N/A	ug/m3	--	--	4.00	260,000	No	0	No

Table 9-5
Preliminary-COPC Identification for Combined Data from all Four AOPCs
Bradford Island - Upland Operable Unit
(15 of 16)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Soil Gas	VOCs	Total	Trichloroethene (TCE)	N/A	N/A	ug/m3	--	--	610	140	**Yes**	2	**Yes**
Soil Gas	VOCs	Total	Trichlorofluoromethane	N/A	N/A	ug/m3	--	--	2.20	3,100,000	No	0	No

Table 9-5
Preliminary-COPC Identification for Combined Data from all Four AOPCs
Bradford Island - Upland Operable Unit
(16 of 16)

Medium	Analyte Group	Total / Dissolved	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in AOPC than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?

Notes

(1) Only evaluated for analytes with a sample size of 20 or more. See the Data Summary for All Four AOPCs Combined - Appendix I, Table I-5.

(2) Only applicable to inorganics. For soils, see the statistical comparison of Site soil concentrations to Reference Area concentrations; Appendix L, Tables L-1 and L-2.
For groundwater and seep water, see Table 8-3 and Appendix L, Table L-3. Direct push groundwater samples are not compared to Reference Area monitoring well data.

(3) The groundwater, seep water, and surface water SLVs are the lower of the Direct Contact Water SLV and the Discharge to Surface Water-Bioaccumulative SLV; see Appendix J.

(4) Total DDT is evaluated in the ERA for the Upland OU; see Section 12 and Appendix N.

'--' = Not evaluated
% = percent
BHC = hexachlorocyclohexane
DP = Direct Push
ft = feet
Max = maximum
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
N/A = not applicable
NV = No Value
No. = number
NWTPH-Dx = northwest total petroleum hydrocarbon-diesel-extended
NWTPH-Gx =northwest total petroleum hydrocarbon-gasoline-extended
PCB = polychlorinated biphenyl
SLV = screening level value
SVOC = semi-volatile organic carbon
ug/kg = micrograms per kilogram
ug/L = micrograms per liter
ug/m3 = micrograms per cubic meter

Table 9-6
Preliminary-COPC Identification for Potentially Erodible or Mass Wasting Soil
Bradford Island - Upland Operable Unit
(1 of 4)

AOPC	Medium	Analyte Group	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate	Detection Rate > 5%?[1]	Higher Conc than Reference Sediments?[2]	Max Detected Value	Selected Sediment SLV[3]	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Landfill	Soil	Metals	Aluminum	0-1 ft	N/A	mg/kg	100%	--	No	--	--	--	--	No
Landfill	Soil	Metals	Arsenic	0-1 ft	N/A	mg/kg	100%	--	**Yes**	6.20	6.00	**Yes**	2	**Yes**
Landfill	Soil	Metals	Barium	0-1 ft	N/A	mg/kg	100%	--	No	--	--	--	--	No
Landfill	Soil	Metals	Beryllium	0-1 ft	N/A	mg/kg	100%	--	No	--	--	--	--	No
Landfill	Soil	Metals	Cadmium	0-1 ft	N/A	mg/kg	100%	--	**Yes**	1.70	0.674	**Yes**	4	**Yes**
Landfill	Soil	Metals	Chromium	0-1 ft	N/A	mg/kg	100%	--	**Yes**	801	37.0	**Yes**	2	**Yes**
Landfill	Soil	Metals	Cobalt	0-1 ft	N/A	mg/kg	100%	--	**Yes**	22.7	15.2	**Yes**	2	**Yes**
Landfill	Soil	Metals	Copper	0-1 ft	N/A	mg/kg	100%	--	**Yes**	60.5	55.6	**Yes**	2	**Yes**
Landfill	Soil	Metals	Lead	0-1 ft	N/A	mg/kg	100%	--	**Yes**	680	35.0	**Yes**	9	**Yes**
Landfill	Soil	Metals	Manganese	0-1 ft	N/A	mg/kg	100%	--	--	614	1100	No	0	No
Landfill	Soil	Metals	Mercury	0-1 ft	N/A	mg/kg	100%	--	**Yes**	0.320	0.214	**Yes**	3	**Yes**
Landfill	Soil	Metals	Nickel	0-1 ft	N/A	mg/kg	100%	--	**Yes**	570	21.2	**Yes**	3	**Yes**
Landfill	Soil	Metals	Selenium	0-1 ft	N/A	mg/kg	20%	--	--	0.848	NV	***Yes***	--	***Yes***
Landfill	Soil	Metals	Silver	0-1 ft	N/A	mg/kg	50%	--	--	0.500	4.50	No	0	No
Landfill	Soil	Metals	Thallium	0-1 ft	N/A	mg/kg	10%	--	**Yes**	0.378	0.354	**Yes**	1	**Yes**
Landfill	Soil	Metals	Vanadium	0-1 ft	N/A	mg/kg	100%	--	No	--	--	--	--	No
Landfill	Soil	Metals	Zinc	0-1 ft	N/A	mg/kg	100%	--	**Yes**	221	123	**Yes**	9	**Yes**
Landfill	Soil	Pesticides	4,4'-DDT	0-1 ft	N/A	ug/kg	70%	--	--	28.0	0.040	**Yes**	7	**Yes**
Landfill	Soil	Pesticides	Dieldrin	0-1 ft	N/A	ug/kg	10%	--	--	2.10	0.0010	**Yes**	1	**Yes**
Landfill	Soil	PCB Aroclors	Aroclor 1254	0-1 ft	N/A	ug/kg	70%	--	--	49.0	0.0480	**Yes**	7	**Yes**
Landfill	Soil	PCB Aroclors	Aroclor 1260	0-1 ft	N/A	ug/kg	90%	--	--	92.0	0.0480	**Yes**	9	**Yes**
Landfill	Soil	PCB Aroclors	Total PCBs as Aroclors	0-1 ft	N/A	ug/kg	90%	--	**--**	127	0.0480	**Yes**	9	**Yes**
Landfill	Soil	SVOCs	2-Methylnaphthalene	0-1 ft	N/A	ug/kg	10%	--	--	11.0	NV	***Yes***	--	***Yes***
Landfill	Soil	SVOCs	Acenaphthene	0-1 ft	N/A	ug/Kg	79%	--	--	1,160	290	**Yes**	2	**Yes**
Landfill	Soil	SVOCs	Acenaphthylene	0-1 ft	N/A	ug/kg	29%	--	--	19.0	160	No	0	No
Landfill	Soil	SVOCs	Anthracene	0-1 ft	N/A	ug/kg	93%	--	--	1,070	57	**Yes**	8	**Yes**
Landfill	Soil	SVOCs	Benzo(a)anthracene	0-1 ft	N/A	ug/kg	93%	--	--	4,500	32	**Yes**	13	**Yes**
Landfill	Soil	SVOCs	Benzo(a)pyrene	0-1 ft	N/A	ug/kg	93%	--	--	6,200	32	**Yes**	13	**Yes**
Landfill	Soil	SVOCs	Benzo(b)fluoranthene	0-1 ft	N/A	ug/kg	93%	--	--	8,200	27	**Yes**	13	**Yes**
Landfill	Soil	SVOCs	Benzo(g,h,i)perylene	0-1 ft	N/A	ug/kg	93%	--	--	3,300	300	**Yes**	8	**Yes**
Landfill	Soil	SVOCs	Benzo(k)fluoranthene	0-1 ft	N/A	ug/kg	93%	--	--	2,500	27	**Yes**	13	**Yes**
Landfill	Soil	SVOCs	Benzoic Acid	0-1 ft	N/A	ug/kg	30%	--	--	300	NV	***Yes***	--	***Yes***
Landfill	Soil	SVOCs	Benzyl Alcohol	0-1 ft	N/A	ug/kg	10%	--	--	14.0	NV	***Yes***	--	***Yes***
Landfill	Soil	SVOCs	Bis(2-ethylhexyl) Phthalate	0-1 ft	N/A	ug/kg	90%	--	--	420	750	No	0	No
Landfill	Soil	SVOCs	Carbazole	0-1 ft	N/A	ug/kg	80%	--	--	210	140	**Yes**	1	**Yes**
Landfill	Soil	SVOCs	Chrysene	0-1 ft	N/A	ug/kg	93%	--	--	5,900	57	**Yes**	13	**Yes**
Landfill	Soil	SVOCs	Dibenz(a,h)anthracene	0-1 ft	N/A	ug/kg	93%	--	--	1,000	33	**Yes**	11	**Yes**
Landfill	Soil	SVOCs	Dibenzofuran	0-1 ft	N/A	ug/kg	20%	--	--	36.0	5100	No	0	No
Landfill	Soil	SVOCs	Di-n-butyl Phthalate	0-1 ft	N/A	ug/kg	40%	--	--	1,800	110	**Yes**	1	**Yes**
Landfill	Soil	SVOCs	Fluoranthene	0-1 ft	N/A	ug/kg	93%	--	--	14,000	111	**Yes**	13	**Yes**
Landfill	Soil	SVOCs	Fluorene	0-1 ft	N/A	ug/kg	71%	--	--	510	77	**Yes**	4	**Yes**
Landfill	Soil	SVOCs	Indeno(1,2,3-cd)pyrene	0-1 ft	N/A	ug/kg	93%	--	--	4,600	17	**Yes**	13	**Yes**
Landfill	Soil	SVOCs	Naphthalene	0-1 ft	N/A	ug/kg	36%	--	--	79.0	176	No	0	No
Landfill	Soil	SVOCs	Phenanthrene	0-1 ft	N/A	ug/Kg	93%	--	--	4,200	42	**Yes**	13	**Yes**
Landfill	Soil	SVOCs	Pyrene	0-1 ft	N/A	ug/kg	93%	--	--	9,100	53	**Yes**	13	**Yes**

Table 9-6
Preliminary-COPC Identification for Potentially Erodible or Mass Wasting Soil
Bradford Island - Upland Operable Unit
(2 of 4)

AOPC	Medium	Analyte Group	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate	Detection Rate > 5%?[1]	Higher Conc than Reference Sediments?[2]	Max Detected Value	Selected Sediment SLV[3]	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Landfill	Soil	SVOCs	Total LPAHs (KM, capped)	0-1 ft	N/A	ug/kg	93%	--	**--**	7,043	76	**Yes**	13	**Yes**
Landfill	Soil	SVOCs	Total HPAHs (KM, capped)	0-1 ft	N/A	ug/kg	93%	--	**--**	55,030	193	**Yes**	13	**Yes**
Landfill	Soil	VOCs	Tetrachloroethene (PCE)	0-1 ft	N/A	ug/kg	80%	--	--	9.70	NV	***Yes***	--	***Yes***
Landfill	Soil	VOCs	Toluene	0-1 ft	N/A	ug/kg	80%	--	--	1.46	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	Metals	Aluminum	0-1 ft	N/A	mg/kg	100%	--	No	--	--	--	--	No
Sandblast Area	Soil	Metals	Antimony	0-1 ft	N/A	mg/kg	100%	--	No	--	--	--	--	No
Sandblast Area	Soil	Metals	Arsenic	0-1 ft	N/A	mg/kg	100%	--	No	--	--	--	--	No
Sandblast Area	Soil	Metals	Barium	0-1 ft	N/A	mg/kg	100%	--	No	--	--	--	--	No
Sandblast Area	Soil	Metals	Beryllium	0-1 ft	N/A	mg/kg	100%	--	No	--	--	--	--	No
Sandblast Area	Soil	Metals	Cadmium	0-1 ft	N/A	mg/kg	100%	--	**Yes**	1.06	0.674	**Yes**	1	**Yes**
Sandblast Area	Soil	Metals	Chromium	0-1 ft	N/A	mg/kg	100%	--	**Yes**	162	37.0	**Yes**	2	**Yes**
Sandblast Area	Soil	Metals	Cobalt	0-1 ft	N/A	mg/kg	100%	--	No	--	--	--	--	No
Sandblast Area	Soil	Metals	Copper	0-1 ft	N/A	mg/kg	100%	--	**Yes**	71.6	55.6	**Yes**	1	**Yes**
Sandblast Area	Soil	Metals	Lead	0-1 ft	<250um	mg/kg	100%	--	**Yes**	90.8	35	**Yes**	1	**Yes**
Sandblast Area	Soil	Metals	Lead	0-1 ft	<2mm	mg/kg	100%	--	**Yes**	52.7	35	**Yes**	1	**Yes**
Sandblast Area	Soil	Metals	Lead	0-1 ft	N/A	mg/kg	100%	--	**Yes**	319	35	**Yes**	2	**Yes**
Sandblast Area	Soil	Metals	Manganese	0-1 ft	N/A	mg/kg	100%	--	--	479	1100	No	0	No
Sandblast Area	Soil	Metals	Mercury	0-1 ft	N/A	mg/kg	100%	--	No	--	--	--	--	No
Sandblast Area	Soil	Metals	Nickel	0-1 ft	N/A	mg/kg	100%	--	**Yes**	74.9	21.2	**Yes**	2	**Yes**
Sandblast Area	Soil	Metals	Selenium	0-1 ft	N/A	mg/kg	100%	--	--	0.650	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	Metals	Silver	0-1 ft	N/A	mg/kg	100%	--	--	0.175	4.50	No	0	No
Sandblast Area	Soil	Metals	Thallium	0-1 ft	N/A	mg/kg	100%	--	No	--	--	--	--	No
Sandblast Area	Soil	Metals	Vanadium	0-1 ft	N/A	mg/kg	100%	--	No	--	--	--	--	No
Sandblast Area	Soil	Metals	Zinc	0-1 ft	N/A	mg/kg	100%	--	**Yes**	203	123	**Yes**	1	**Yes**
Sandblast Area	Soil	Butyltins	Dibutyltin	0-1 ft	N/A	ug/kg	100%	--	--	9.10	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	Butyltins	Monobutyltin	0-1 ft	N/A	ug/kg	100%	--	--	8.25	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	Butyltins	Tributyltin	0-1 ft	N/A	ug/kg	100%	--	--	12.8	2.3	**Yes**	2	**Yes**
Sandblast Area	Soil	Pesticides	4,4'-DDE	0-1 ft	N/A	ug/kg	100%	--	--	0.440	0.0400	**Yes**	2	**Yes**
Sandblast Area	Soil	Pesticides	4,4'-DDT	0-1 ft	N/A	ug/kg	100%	--	--	10.0	0.0400	**Yes**	2	**Yes**
Sandblast Area	Soil	Pesticides	BHC (delta)	0-1 ft	N/A	ug/kg	50%	--	--	0.0780	0.900	No	0	No
Sandblast Area	Soil	Pesticides	Endosulfan II	0-1 ft	N/A	ug/kg	50%	--	--	0.240	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	Pesticides	Endosulfan Sulfate	0-1 ft	N/A	ug/kg	50%	--	--	0.770	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	Pesticides	Heptachlor	0-1 ft	N/A	ug/kg	100%	--	--	0.380	10.0	No	0	No
Sandblast Area	Soil	PCB Aroclors	Aroclor 1260	0-1 ft	N/A	ug/kg	100%	--	--	67.0	0.0480	**Yes**	2	**Yes**
Sandblast Area	Soil	PCB Aroclors	Total PCBs as Aroclors	0-1 ft	N/A	ug/kg	100%	--	--	69.1	0.0480	**Yes**	2	**Yes**
Sandblast Area	Soil	NWTPH-Dx	Diesel Range Organics	0-1 ft	N/A	mg/kg	100%	--	--	69.0	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	NWTPH-Dx	Residual Range Organics	0-1 ft	N/A	mg/kg	100%	--	--	1,000	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	NWTPH-Gx	Gasoline Range Organics	0-1 ft	N/A	mg/kg	50%	--	--	3.20	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	SVOCs	Acenaphthene	0-1 ft	N/A	ug/kg	100%	--	--	68.0	290	No	0	No
Sandblast Area	Soil	SVOCs	Anthracene	0-1 ft	N/A	ug/kg	100%	--	--	150	57	**Yes**	1	**Yes**
Sandblast Area	Soil	SVOCs	Benzo(a)anthracene	0-1 ft	N/A	ug/kg	100%	--	--	1,200	32	**Yes**	2	**Yes**
Sandblast Area	Soil	SVOCs	Benzo(a)pyrene	0-1 ft	N/A	ug/kg	100%	--	--	1,000	32	**Yes**	2	**Yes**
Sandblast Area	Soil	SVOCs	Benzo(b)fluoranthene	0-1 ft	N/A	ug/kg	100%	--	--	1,600	27	**Yes**	2	**Yes**
Sandblast Area	Soil	SVOCs	Benzo(g,h,i)perylene	0-1 ft	N/A	ug/kg	100%	--	--	590	300	**Yes**	1	**Yes**

Table 9-6
Preliminary-COPC Identification for Potentially Erodible or Mass Wasting Soil
Bradford Island - Upland Operable Unit
(3 of 4)

AOPC	Medium	Analyte Group	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate	Detection Rate > 5%?[1]	Higher Conc than Reference Sediments?[2]	Max Detected Value	Selected Sediment SLV[3]	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Sandblast Area	Soil	SVOCs	Benzo(k)fluoranthene	0-1 ft	N/A	ug/kg	100%	--	--	570	27	**Yes**	2	**Yes**
Sandblast Area	Soil	SVOCs	Bis(2-ethylhexyl) Phthalate	0-1 ft	N/A	ug/kg	100%	--	--	260,000	750	**Yes**	2	**Yes**
Sandblast Area	Soil	SVOCs	Carbazole	0-1 ft	N/A	ug/kg	100%	--	--	91.0	140	No	0	No
Sandblast Area	Soil	SVOCs	Chrysene	0-1 ft	N/A	ug/kg	100%	--	--	1,500	57	**Yes**	2	**Yes**
Sandblast Area	Soil	SVOCs	Dibenz(a,h)anthracene	0-1 ft	N/A	ug/kg	100%	--	--	220	33	**Yes**	2	**Yes**
Sandblast Area	Soil	SVOCs	Fluoranthene	0-1 ft	N/A	ug/kg	100%	--	--	2,100	111	**Yes**	2	**Yes**
Sandblast Area	Soil	SVOCs	Indeno(1,2,3-cd)pyrene	0-1 ft	N/A	ug/kg	100%	--	--	690	17	**Yes**	2	**Yes**
Sandblast Area	Soil	SVOCs	Phenanthrene	0-1 ft	N/A	ug/kg	100%	--	--	940	42	**Yes**	2	**Yes**
Sandblast Area	Soil	SVOCs	Pyrene	0-1 ft	N/A	ug/kg	100%	--	--	1,900	53	**Yes**	2	**Yes**
Sandblast Area	Soil	SVOCs	Total LPAHs (KM, capped)	0-1 ft	N/A	ug/kg	100%	--	**--**	1,356	76	**Yes**	2	**Yes**
Sandblast Area	Soil	SVOCs	Total HPAHs (KM, capped)	0-1 ft	N/A	ug/kg	100%	--	**--**	11,370	193	**Yes**	2	**Yes**
Sandblast Area	Soil	VOCs	1,2,4-Trimethylbenzene	0-1 ft	N/A	ug/kg	75%	--	--	0.280	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	VOCs	2-Butanone (MEK)	0-1 ft	N/A	ug/kg	88%	--	--	50.0	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	VOCs	2-Hexanone	0-1 ft	N/A	ug/kg	38%	--	--	8.80	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	VOCs	4-Isopropyltoluene	0-1 ft	N/A	ug/kg	38%	--	--	2.50	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	VOCs	4-Methyl-2-pentanone (MIBK)	0-1 ft	N/A	ug/kg	38%	--	--	1.20	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	VOCs	Acetone	0-1 ft	N/A	ug/kg	88%	--	--	540	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	VOCs	Benzene	0-1 ft	N/A	ug/kg	50%	--	--	1.00	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	VOCs	Bromomethane	0-1 ft	N/A	ug/kg	25%	--	--	5.00	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	VOCs	Carbon Disulfide	0-1 ft	N/A	ug/kg	88%	--	--	1.00	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	VOCs	Chloroform	0-1 ft	N/A	ug/kg	38%	--	--	19.0	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	VOCs	Chloromethane	0-1 ft	N/A	ug/kg	25%	--	--	0.250	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	VOCs	cis-1,2-Dichloroethene	0-1 ft	N/A	ug/kg	13%	--	--	12.0	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	VOCs	Dichlorodifluoromethane	0-1 ft	N/A	ug/kg	13%	--	--	94.0	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	VOCs	Dichloromethane (Methylene Chloride)	0-1 ft	N/A	ug/kg	50%	--	--	460	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	VOCs	Ethylbenzene	0-1 ft	N/A	ug/kg	38%	--	--	0.200	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	VOCs	m,p-Xylenes	0-1 ft	N/A	ug/kg	38%	--	--	0.360	NV	***Yes***	--	***Yes***
Sandblast Area	Soil	VOCs	Naphthalene	0-1 ft	N/A	ug/kg	25%	--	--	0.540	176	No	0	No
Sandblast Area	Soil	VOCs	Toluene	0-1 ft	N/A	ug/kg	88%	--	--	1.30	NV	***Yes***	--	***Yes***
Bulb Slope	Soil	Metals	Lead	0-1 ft	N/A	mg/kg	100%	**--**	**Yes**	597	35	**Yes**	11	**Yes**
Bulb Slope	Soil	Metals	Mercury	0-1 ft	N/A	mg/kg	100%	**--**	**Yes**	1.54	0.214	**Yes**	6	**Yes**
Bulb Slope	Soil	PCB Aroclors	Aroclor 1260	0-1 ft	N/A	ug/kg	67%	**--**	--	251	0.0480	**Yes**	8	**Yes**
Bulb Slope	Soil	PCB Aroclors	Total PCBs as Aroclors	0-1 ft	N/A	ug/kg	67%	**--**	--	251	0.0480	**Yes**	8	**Yes**
Bulb Slope	Soil	NWTPH-Dx	Diesel Range Organics	0-1 ft	N/A	mg/kg	100%	**--**	--	170	NV	***Yes***	--	***Yes***
Bulb Slope	Soil	NWTPH-Dx	Residual Range Organics	0-1 ft	N/A	mg/kg	100%	**--**	--	410	NV	***Yes***	--	***Yes***

Notes

(1) Only evaluated for analytes with a sample size of 20 or more.

(2) Only applicable to inorganics. See the comparison of potentially erodible and mass wasting soil concentrations to Reference Area sediment concentrations; Appendix L, Table L-8.

(3) Total DDT is evaluated in the ERA and HHRA for the Upland OU; see Sections 11 and 12 and Appendix O.

The subset of Landfill AOPC soil potentially suseptible to mass wasting is comprised of the following samples: BIL01USE through BIL09USE, BIL13SSI, and L-01 through L-04.

The Sandblast Area AOPC potentially erodible soil subset is comprised of the following samples: SB-EUA, SB-EUB, SB-EUA-02, SB-EUA-04, SB-EUA-06, SB-EUA-08, SB-EUB-02, SB-EUB-03, SB-EUB-12, SB-EUB-15, and SB-04.

The entire Bulb Slope AOPC is potentially suseptible to mass wasting.

Table 9-6
Preliminary-COPC Identification for Potentially Erodible or Mass Wasting Soil
Bradford Island - Upland Operable Unit
(4 of 4)

AOPC	Medium	Analyte Group	Analyte	Depth Category (Soil)	Sieve Size (Sieved Soil)	Unit	Detection Rate	Detection Rate > 5%?[1]	Higher Conc than Reference Sediments?[2]	Max Detected Value	Selected Sediment SLV[3]	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?

'--' = Not evaluated
% = percent
BHC = hexachlorocyclohexane
ft = feet
Max = maximum
mg/kg = milligrams per kilogram
N/A = not applicable
NV = No Value
No. = number
NWTPH-Dx = northwest total petroleum hydrocarbon-diesel-extended
NWTPH-Gx =northwest total petroleum hydrocarbon-gasoline-extended
PCB = polychlorinated biphenyl
SLV = screening level value
SVOC = semi-volatile organic carbon
ug/kg = micrograms per kilogram
VOC = volatile organic carbon

Table 9-7
Upland OU Preliminary COPC Summary
Bradford Island - Upland Operable Unit
(1 of 6)

Medium	Depth Category (Soil)	Analyte Group	Landfill AOPC Preliminary COPCs	Sandblast Area AOPC Preliminary COPCs	Pistol Range AOPC Preliminary COPCs	Bulb Slope AOPC Preliminary COPCs	All Four AOPCs Combined Preliminary COPCs
Detection Frequency > 5%, Detected > Reference (Inorganics), and Detected > SLV							
Soil	0-1 ft bgs	Metals	Antimony, Cadmium, Lead, Mercury, and Zinc	Antimony, Arsenic, Cadmium, Chromium, Lead, Nickel, Selenium, and Zinc	Lead and Zinc	Lead and Mercury	Antimony, Arsenic, Cadmium, Chromium, Lead, Mercury, Nickel, Selenium, and Zinc
		Organotins	None	None	-	-	None
		Herbicides	2,4,5-T, Dichloroprop, and MCPP	ND	-	-	2,4,5-T, Dichloroprop, and MCPP
		Pesticides	4,4'-DDT	4,4'-DDT, Endrin, Endrin Aldehyde, and Endrin Ketone	-	-	4,4'-DDT, Endrin, Endrin Aldehyde, and Endrin Ketone
		PCBs	Aroclor 1248, Aroclor 1260, and Total PCBs as Aroclors	Arochlor 1254, Aroclor 1260, and Total PCBs as Aroclors	-	None	Aroclor 1248, Arochlor 1254, Aroclor 1260, and Total PCBs as Aroclors
		TPH	GRO	None	-	None	GRO
		PAHs	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzofluoranthenes (Total), Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene, and Total HPAHs	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzofluoranthenes (Total), Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene, and Total HPAHs	-	-	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzofluoranthenes (Total), Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene, and Total HPAHs
		SVOCs	Bis(2-ethylhexyl)phthalate, Carbazole, Dibenzofuran, and Di-n-butyl phthalate	Bis(2-ethylhexyl) phthalate and Dibenzofuran	-	-	Bis(2-ethylhexyl)phthalate, Carbazole, Dibenzofuran, and Di-n-butyl phthalate
		VOCs	Ethylbenzene	None	-	-	Ethylbenzene
	0-3 ft bgs	Metals	Antimony, Arsenic, Cadmium, Lead, Mercury, and Zinc	Antimony, Arsenic, Cadmium, Chromium, Lead, Nickel, Selenium, and Zinc	(No subsurface samples)	(No subsurface samples)	Antimony, Arsenic, Cadmium, Chromium, Lead, Mercury, Nickel, Selenium, and Zinc
		Organotins	None	None			None
		Herbicides	2,4,5-T, Dichloroprop, and MCPP	ND			2,4,5-T, Dichloroprop, and MCPP
		Pesticides	4,4'-DDT	4,4'-DDT, Endrin, Endrin Aldehyde, and Endrin Ketone			4,4'-DDT, Endrin, Endrin Aldehyde, and Endrin Ketone
		PCBs	Aroclor 1248, Aroclor 1260, and Total PCBs as Aroclors	Arochlor-1254, Aroclor 1260, and Total PCBs as Aroclors			Aroclor 1248, Arochlor 1254, Aroclor 1260, and Total PCBs as Aroclors
		TPH	GRO	None			GRO

Table 9-7
Upland OU Preliminary COPC Summary
Bradford Island - Upland Operable Unit
(2 of 6)

Medium	Depth Category (Soil)	Analyte Group	Landfill AOPC Preliminary COPCs	Sandblast Area AOPC Preliminary COPCs	Pistol Range AOPC Preliminary COPCs	Bulb Slope AOPC Preliminary COPCs	All Four AOPCs Combined Preliminary COPCs
Detection Frequency > 5%, Detected > Reference (Inorganics), and Detected > SLV							
Soil (Continued)	0-3 ft bgs (Continued)	PAHs	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzofluoranthenes (Total), Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene, Total HPAHs, and Total LPAHs	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzofluoranthenes (Total), Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene, and Total HPAHs	(No subsurface samples)	(No subsurface samples)	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzofluoranthenes (Total), Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene, and Total HPAHs
		SVOCs	Bis(2-ethylhexyl)phthalate Carbazole, Dibenzofuran, and Di-n-butyl phthalate	Bis(2-ethylhexyl) phthalate and Dibenzofuran			Bis(2-ethylhexyl)phthalate Carbazole, Dibenzofuran, and Di-n-butyl phthalate
		VOCs	None	o-Xylene, PCE, and TCE			Ethylbenzene, o-Xylene, PCE, and TCE
	0-10 ft bgs	Metals	Lead	Arsenic, Chromium, and Lead	(No deeper samples)	(No deeper samples)	Arsenic, Chromium, and Lead
		Organotins	None	None			None
		Herbicides	None*	ND			None*
		Pesticides	None	None			None
		PCBs	Total PCBs as Aroclors	Arochlor-1254 and Total PCBs as Aroclors			Arochlor 1254 and Total PCBs as Aroclors
		TPH	GRO and RRO	None			GRO and RRO
		PAHs	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzofluoranthenes (Total), Dibenz(a,h)anthracene, and Indeno(1,2,3-cd)pyrene	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzofluoranthenes (Total), Dibenz(a,h)anthracene, and Indeno(1,2,3-cd)pyrene			Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzofluoranthenes (Total), Dibenz(a,h)anthracene, and Indeno(1,2,3-cd)pyrene
		SVOCs	None*	Bis(2-ethylhexyl) phthalate			Bis(2-ethylhexyl) phthalate
		VOCs	PCE	PCE and TCE			PCE and TCE

Table 9-7
Upland OU Preliminary COPC Summary
Bradford Island - Upland Operable Unit
(3 of 6)

Medium	Depth Category (Soil)	Analyte Group	Landfill AOPC Preliminary COPCs	Sandblast Area AOPC Preliminary COPCs	Pistol Range AOPC Preliminary COPCs	Bulb Slope AOPC Preliminary COPCs	All Four AOPCs Combined Preliminary COPCs
Detection Frequency > 5%, Detected > Reference (Inorganics), and Detected > SLV							
Erodible Soil	0-1 ft bgs	Metals	Arsenic, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Nickel, Thallium, and Zinc	Cadmium, Chromium, Copper, Lead, Nickel, and Zinc	(Not evaluated)	Lead and Mercury	(Not evaluated)
		Organotins	-	Tributyltin		-	
		Herbicides	ND	-		-	
		Pesticides	4,4'-DDT and Dieldrin	4,4'-DDT and 4,4'-DDE		-	
		PCBs	Aroclor 1254, Aroclor 1260, and Total PCBs as Aroclors	Aroclor 1260 and Total PCBs as Aroclors		Aroclor 1260 and Total PCBs as Aroclors	
		TPH	ND	None*		None*	
		PAHs	Acenaphthene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene, Total LPAHs, and Total HPAHs	Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene, Total LPAHs, and Total HPAHs		-	
		SVOCs	Carbazole and Di-n-butyl Phthalate	Bis(2-ethylhexyl) phthalate		-	
		VOCs	None*	None*		-	

Table 9-7
Upland OU Preliminary COPC Summary
Bradford Island - Upland Operable Unit
(4 of 6)

Medium	Depth Category (Soil)	Analyte Group	Landfill AOPC Preliminary COPCs	Sandblast Area AOPC Preliminary COPCs	Pistol Range AOPC Preliminary COPCs	Bulb Slope AOPC Preliminary COPCs	All Four AOPCs Combined Preliminary COPCs
Detection Frequency > 5%, Detected > Reference (Inorganics), and Detected > SLV							
Groundwater		Metals (Total)	**MW:** Arsenic, Iron, Lead, Manganese, and Thallium	**MW:** Arsenic, Iron, and Vanadium **DP:** Arsenic, Cobalt, Iron, Manganese, and Vanadium	None	(No goundwater samples)	**MW:** Arsenic, Iron, Lead, Manganese, Thallium, and Vanadium **DP:** Arsenic, Cobalt, Iron, Manganese, and Vanadium
		Metals (Dissolved)	**MW:** Arsenic, Barium, Cacium, Iron, Lead, Manganese, Sodium, and Zinc	**MW:** Arsenic and Vanadium **DP:** Aluminum, Arsenic, Barium, Iron, Manganese, and Vanadium	None		**MW:** Arsenic, Barium, Cacium, Iron, Lead, Manganese, Sodium, Vanadium, and Zinc **DP:** Aluminum, Arsenic, Barium, Iron, Manganese, and Vanadium
		Organotins	**MW:** Dibutyltin and Monobutyltin	None	-		**MW:** Dibutyltin and Monobutyltin
		Herbicides	None	-	-		None
		Pesticides	None	None	-		None
		PCBs	ND	ND	-		ND
		TPH	**MW:** DRO, GRO, and RRO	None	-		**MW:** DRO, GRO, and RRO
		PAHs (Total)	**MW:** Naphthalene and Phenanthrene	**DP:** Benzo(a)pyrene, Benzofluoranthenes (Total), Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene, and Phenanthrene	-		**MW:** Naphthalene and Phenanthrene **DP:** Benzo(a)pyrene, Benzofluoranthenes (Total), Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene, and Phenanthrene
		PAHs (Dissolved)	-	**DP:** Benzo(a)pyrene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene, and Naphthalene	-		**DP:** Benzo(a)pyrene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene, and Naphthalene
		SVOCs	**MW:** Bis(2-ethylhexyl)phthalate and Di-n-octyl phthalate	None	-		**MW:** Bis(2-ethylhexyl)phthalate and Di-n-octyl phthalate
		VOCs	**MW:** Chloroform, PCE, and Vinyl Chloride	**MW:** 1,1-Dichloroethane, cis-1,2-Dichloroethene, PCE, TCE, and Vinyl Chloride **DP:** 1,1-Dichloroethane, PCE, TCE, and Vinyl Chloride	-		**MW:** 1,1-Dichloroethane, Carbon Disulfide, Chloroform, cis-1,2-Dichloroethene, PCE, TCE, and Vinyl Chloride **DP:** 1,1-Dichloroethane, PCE, TCE, and Vinyl Chloride

Table 9-7
Upland OU Preliminary COPC Summary
Bradford Island - Upland Operable Unit
(5 of 6)

Medium	Depth Category (Soil)	Analyte Group	Landfill AOPC Preliminary COPCs	Sandblast Area AOPC Preliminary COPCs	Pistol Range AOPC Preliminary COPCs	Bulb Slope AOPC Preliminary COPCs	All Four AOPCs Combined Preliminary COPCs
Detection Frequency > 5%, Detected > Reference (Inorganics), and Detected > SLV							
Seep Water		Metals (Total)	Arsenic, Iron, Lead, and Manganese	(No seep water samples)	(No seep water samples)	(No seep water samples)	Arsenic, Iron, Lead, and Manganese
		Metals (Dissolved)	Barium, Iron, Manganese, and Zinc				Barium, Iron, Manganese, and Zinc
		Organotins	ND				ND
		Herbicides	ND				ND
		Pesticides	ND				ND
		PCBs	ND				ND
		TPH	DRO				DRO
		PAHs	ND				ND
		SVOCs	None				None
		VOCs	Chloroform and PCE				Chloroform and PCE
Surface Water		Metals (Total)	Arsenic and Iron	(No surface water samples)	(No surface water samples)	(No surface water samples)	Arsenic and Iron
		Metals (Dissolved)	Arsenic				Arsenic
		Organotins	ND				ND
		Herbicides	-				-
		Pesticides	-				-
		PCBs	-				-
		TPH	None				None
		PAHs	ND				ND
		SVOCs	ND				ND
		VOCs	ND				ND
Lagoon Sediment		Metals	(No lagoon sediment)	(No lagoon sediment)	Zinc	(No lagoon sediment)	Zinc
Soil Gas		VOCs	(No soil gas samples)	PCE and TCE	(No soil gas samples)	(No soil gas samples)	PCE and TCE
Detection Frequency > 5%, Detected > Reference (Inorganics), and No SLV							
Soil	0-10 ft bgs	Herbicides	Dichloroprop	None	(No deeper samples)	(No deeper samples)	Dichloroprop
		SVOCs	Carbazole	Carbazole			Carbazole
		VOCs	None	4-Isopropyltoluene			4-Isopropyltoluene
Erodible Soil	0-1 ft bgs	Metals	Selenium	Selenium	(Not evaluated)	None	(Not evaluated)
		Organotins	-	Dibutyltin and Monobutyltin		-	
		Pesticides	None	Endosulfan II and Endosulfan Sulfate		-	
		TPH	ND	DRO, RRO, and GRO		DRO and RRO	
		PAHs	2-Methylnaphthalene	None		None	
		SVOCs	Benzoic Acid and Benzyl Alcohol	None		-	
		VOCs	PCE and Toluene	All detected VOCs except Napthalene		-	
Groundwater		Metals (Total)	None	**DP:** Calcium, Magnesium, Potassium, and Sodium	None	(No goundwater samples)	**DP:**Calcium, Magnesium, Potassium, and Sodium
Soil Gas		VOCs	(No soil gas samples)	2,2,4-Trimethylpentane, 4-Ethyltoluene, Ethanol, and Heptane	(No soil gas samples)	(No soil gas samples)	2,2,4-Trimethylpentane, 4-Ethyltoluene, Ethanol, and Heptane

Notes

Table 9-7
Upland OU Preliminary COPC Summary
Bradford Island - Upland Operable Unit
(6 of 6)

Medium	Depth Category (Soil)	Analyte Group	Landfill AOPC Preliminary COPCs	Sandblast Area AOPC Preliminary COPCs	Pistol Range AOPC Preliminary COPCs	Bulb Slope AOPC Preliminary COPCs	All Four AOPCs Combined Preliminary COPCs

* See the section of the table for COFIs retained due to lack of SLVs
"-" = Not Analyzed
COPC = contaminant of potential concern
ND = no detected

Table 9-8
Preliminary COPC Identification for Forebay Random Data
Bradford Island - River Operable Unit
(1 of 6)

Medium	Analyte Group	Basis	Total/ Dissolved	IUPAC #	Analyte	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in Forebay than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Dections > SLV	Retain as Preliminary COPC?
Surface Water - Grab	Metals	W	Dissolved		Arsenic	ug/L	--	--	0.940	0.018	**Yes**	5	**Yes**
Surface Water - Grab	Metals	W	Dissolved		Barium	ug/L	--	--	24.0	4	**Yes**	5	**Yes**
Surface Water - Grab	Metals	W	Dissolved		Beryllium	ug/L	--	--	0.00400	5.3	No	0	No
Surface Water - Grab	Metals	W	Dissolved		Cadmium	ug/L	--	--	0.0100	0.17	No	0	No
Surface Water - Grab	Metals	W	Dissolved		Copper	ug/L	--	--	0.520	5.8	No	0	No
Surface Water - Grab	Metals	W	Dissolved		Lead	ug/L	--	--	0.0360	1.44	No	0	No
Surface Water - Grab	Metals	W	Dissolved		Thallium	ug/L	--	--	0.0310	0.24	No	0	No
Surface Water - Grab	Metals	W	Dissolved		Zinc	ug/L	--	--	7.50	77	No	0	No
Surface Water - Grab	Metals	W	Total		Aluminum	ug/L	--	**Yes**	141	37000	No	0	No
Surface Water - Grab	Metals	W	Total		Arsenic	ug/L	--	No	--	--	--	--	No
Surface Water - Grab	Metals	W	Total		Barium	ug/L	--	**Yes**	27.0	1000	No	0	No
Surface Water - Grab	Metals	W	Total		Beryllium	ug/L	--	No	--	--	--	--	No
Surface Water - Grab	Metals	W	Total		Cadmium	ug/L	--	No	--	--	--	--	No
Surface Water - Grab	Metals	W	Total		Copper	ug/L	--	No	--	--	--	--	No
Surface Water - Grab	Metals	W	Total		Lead	ug/L	--	No	--	--	--	--	No
Surface Water - Grab	Metals	W	Total		Thallium	ug/L	--	No	--	--	--	--	No
Surface Water - Grab	NWTPH-Dx	W	Dissolved		Diesel Range Organics	ug/L	--	--	46.0	90	No	0	No
Surface Water - Grab	NWTPH-Dx	W	Total		Diesel Range Organics	ug/L	--	--	15.0	90	No	0	No
Surface Water - XAD	PCB Congeners	W	C+F	-	Total PCBs As Congeners (KM, capped)	pg/L	--	--	209	64.0	**Yes**	5	**Yes**
Surface Water - XAD	PCB Congeners	W	C+F	77	3,3',4,4'-Tetrachlorobiphenyl	pg/L	--	--	0.133	5200	No	0	No
Surface Water - XAD	PCB Congeners	W	C+F	105	2,3,3',4,4'-Pentachlorobiphenyl	pg/L	--	--	0.540	5200	No	0	No
Surface Water - XAD	PCB Congeners	W	C+F	118	2,3',4,4',5-Pentachlorobiphenyl	pg/L	--	--	1.57	5200	No	0	No
Surface Water - XAD	PCB Congeners	W	C+F	156 + 157	2,3,3',4,4',5-Hexachlorobiphenyl + 2,3,3',4,4',5'-Hexachlorobiphenyl	pg/L	--	--	0.382	1000	No	0	No
Surface Water - XAD	PCB Congeners	W	C+F	167	2,3',4,4',5,5'-Hexachlorobiphenyl	pg/L	--	--	0.158	52000	No	0	No
Surface Water - XAD	PCB Congeners	W	C+F	189	2,3,3',4,4',5,5'-Heptachlorobiphenyl	pg/L	--	--	0.0662	5200	No	0	No
Surface Water - XAD	SVOCs	W	C+F		Acenaphthene	ng/L	--	--	1.28	520000	No	0	No
Surface Water - XAD	SVOCs	W	C+F		Anthracene	ng/L	--	--	0.121	13000	No	0	No
Surface Water - XAD	SVOCs	W	C+F		Benzo(a)anthracene	ng/L	--	--	0.0600	3.80	No	0	No
Surface Water - XAD	SVOCs	W	C+F		Benzo(b)fluoranthene	ng/L	--	--	0.0917	3.80	No	0	No
Surface Water - XAD	SVOCs	W	C+F		Chrysene	ng/L	--	--	0.171	3.80	No	0	No
Surface Water - XAD	SVOCs	W	C+F		Fluoranthene	ng/L	--	--	0.784	6160	No	0	No
Surface Water - XAD	SVOCs	W	C+F		Phenanthrene	ng/L	--	--	1.61	140	No	0	No
Sediment	Metals	D	Total		Aluminum	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D	Total		Antimony	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D	Total		Arsenic	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D	Total		Barium	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D	Total		Beryllium	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D	Total		Cadmium	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D	Total		Chromium	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D	Total		Cobalt	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D	Total		Copper	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D	Total		Lead	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D	Total		Mercury	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D	Total		Nickel	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D	Total		Thallium	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D	Total		Vanadium	mg/kg	--	No	--	--	--	--	No

Table 9-8
Preliminary COPC Identification for Forebay Random Data
Bradford Island - River Operable Unit
(2 of 6)

Medium	Analyte Group	Basis	Total/ Dissolved	IUPAC #	Analyte	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in Forebay than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Dections > SLV	Retain as Preliminary COPC?
Sediment	Metals	D	Total		Zinc	mg/kg	--	No	--	--	--	--	No
Sediment	NWTPH-Dx	D	Total		Diesel Range Organics	mg/kg	--	--	54.0	NV	***Yes***	--	***Yes***
Sediment	NWTPH-Dx	D	Total		Residual Range Organics	mg/kg	--	--	180	NV	***Yes***	--	***Yes***
Sediment	PCB Aroclors	D	Total		Aroclor 1254	ug/kg	--	--	27.0	0.048	**Yes**	2	**Yes**
Sediment	PCB Aroclors	D	Total		Total PCBs As Aroclors	ug/kg	--	--	28.7	0.048	**Yes**	2	**Yes**
Sediment	PCB Congeners	D	Total	-	Total PCBs As Congeners (KM, capped)	ug/kg	--	--	29.7	0.048	**Yes**	19	**Yes**
Sediment	PCB Congeners	D	Total	77	3,3',4,4'-Tetrachlorobiphenyl	ug/kg	--	--	0.00709	0.0064	**Yes**	1	**Yes**
Sediment	PCB Congeners	D	Total	105	2,3,3',4,4'-Pentachlorobiphenyl	ug/kg	--	--	1.08	0.021	**Yes**	7	**Yes**
Sediment	PCB Congeners	D	Total	114	2,3,4,4',5-Pentachlorobiphenyl	ug/kg	--	--	0.0603	0.021	**Yes**	1	**Yes**
Sediment	PCB Congeners	D	Total	118	2,3',4,4',5-Pentachlorobiphenyl	ug/kg	--	--	2.65	0.026	**Yes**	14	**Yes**
Sediment	PCB Congeners	D	Total	123	2,3',4,4',5'-Pentachlorobiphenyl	ug/kg	--	--	0.0363	0.026	**Yes**	1	**Yes**
Sediment	PCB Congeners	D	Total	126	3,3',4,4',5-Pentachlorobiphenyl	ug/kg	--	--	0.000238	6.2E-06	**Yes**	3	**Yes**
Sediment	PCB Congeners	D	Total	156 + 157	2,3,3',4,4',5-Hexachlorobiphenyl + 2,3,3',4,4',5'-Hexachlorobiphenyl	ug/kg	--	--	0.380	0.026	**Yes**	1	**Yes**
Sediment	PCB Congeners	D	Total	167	2,3',4,4',5,5'-Hexachlorobiphenyl	ug/kg	--	--	0.113	0.026	**Yes**	1	**Yes**
Sediment	PCB Congeners	D	Total	189	2,3,3',4,4',5,5'-Heptachlorobiphenyl	ug/kg	--	--	0.00901	0.14	No	0	No
Sediment	SVOCs	D	Total		Anthracene	ug/kg	--	--	2.70	57.0	No	0	No
Sediment	SVOCs	D	Total		Benzo(a)anthracene	ug/kg	--	--	12.0	32.0	No	0	No
Sediment	SVOCs	D	Total		Benzo(a)pyrene	ug/kg	--	--	7.50	32.0	No	0	No
Sediment	SVOCs	D	Total		Benzo(b)fluoranthene	ug/kg	--	--	9.10	27.0	No	0	No
Sediment	SVOCs	D	Total		Benzo(g,h,i)perylene	ug/kg	--	--	6.20	300	No	0	No
Sediment	SVOCs	D	Total		Benzo(k)fluoranthene	ug/kg	--	--	4.90	27.0	No	0	No
Sediment	SVOCs	D	Total		Bis(2-ethylhexyl) Phthalate	ug/kg	--	--	340	750	No	0	No
Sediment	SVOCs	D	Total		Carbazole	ug/kg	--	--	1.40	140	No	0	No
Sediment	SVOCs	D	Total		Chrysene	ug/kg	--	--	20.0	57.0	No	0	No
Sediment	SVOCs	D	Total		Fluoranthene	ug/kg	--	--	12.0	111	No	0	No
Sediment	SVOCs	D	Total		Indeno(1,2,3-cd)pyrene	ug/kg	--	--	5.70	17.0	No	0	No
Sediment	SVOCs	D	Total		p-cresol (4-Methylphenol)	ug/kg	--	--	21.0	48.0	No	0	No
Sediment	SVOCs	D	Total		Phenanthrene	ug/kg	--	--	7.40	42.0	No	0	No
Sediment	SVOCs	D	Total		Pyrene	ug/kg	--	--	17.0	53.0	No	0	No
Sediment	SVOCs	D	Total		Total LPAH (KM, capped)	ug/kg	--	--	12.0	76.0	No	0	No
Sediment	SVOCs	D	Total		Total HPAH (KM, capped)	ug/kg	--	--	73.9	193	No	0	No
Sediment	SVOCs	D	Total		Total PAHs (KM, capped)	ug/kg	--	--	83.4	1610	No	0	No
Tissue - Crayfish	Metals	W	Total		Aluminum	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	Metals	W	Total		Antimony	mg/kg	--	**Yes**	0.133	NV	***Yes***	--	***Yes***
Tissue - Crayfish	Metals	W	Total		Arsenic	mg/kg	--	**Yes**	0.680	0.00076	**Yes**	17	**Yes**
Tissue - Crayfish	Metals	W	Total		Barium	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	Metals	W	Total		Beryllium	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	Metals	W	Total		Cadmium	mg/kg	--	No	--	--	**--**	--	No
Tissue - Crayfish	Metals	W	Total		Chromium	mg/kg	--	**Yes**	1.20	NV	***Yes***	--	***Yes***
Tissue - Crayfish	Metals	W	Total		Cobalt	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	Metals	W	Total		Copper	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	Metals	W	Total		Lead	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	Metals	W	Total		Mercury	mg/kg	--	**Yes**	0.0315	0.049	No	0	No
Tissue - Crayfish	Metals	W	Total		Methyl Mercury	mg/kg	--	**Yes**	0.0400	0.049	No	0	No
Tissue - Crayfish	Metals	W	Total		Nickel	mg/kg	--	**Yes**	5.35	NV	***Yes***	--	***Yes***
Tissue - Crayfish	Metals	W	Total		Thallium	mg/kg	--	No	--	--	--	--	No

Table 9-8
Preliminary COPC Identification for Forebay Random Data
Bradford Island - River Operable Unit
(3 of 6)

Medium	Analyte Group	Basis	Total/ Dissolved	IUPAC #	Analyte	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in Forebay than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Dections > SLV	Retain as Preliminary COPC?
Tissue - Crayfish	Metals	W	Total		Vanadium	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	Metals	W	Total		Zinc	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	PCB Congeners	W	Total	-	Total PCBs As Congeners (KM, capped)	ug/kg	--	--	42.6	0.57	**Yes**	14	**Yes**
Tissue - Crayfish	PCB Congeners	W	Total	77	3,3',4,4'-Tetrachlorobiphenyl	ug/kg	--	--	0.0207	0.076	No	0	No
Tissue - Crayfish	PCB Congeners	W	Total	81	3,4,4',5-Tetrachlorobiphenyl	ug/kg	--	--	0.00132	0.025	No	0	No
Tissue - Crayfish	PCB Congeners	W	Total	105	2,3,3',4,4'-Pentachlorobiphenyl	ug/kg	--	--	0.134	0.25	No	0	No
Tissue - Crayfish	PCB Congeners	W	Total	114	2,3,4,4',5-Pentachlorobiphenyl	ug/kg	--	--	0.804	0.25	**Yes**	3	**Yes**
Tissue - Crayfish	PCB Congeners	W	Total	118	2,3',4,4',5-Pentachlorobiphenyl	ug/kg	--	--	14.0	0.25	**Yes**	5	**Yes**
Tissue - Crayfish	PCB Congeners	W	Total	123	2,3',4,4',5'-Pentachlorobiphenyl	ug/kg	--	--	0.460	0.25	**Yes**	1	**Yes**
Tissue - Crayfish	PCB Congeners	W	Total	126	3,3',4,4',5-Pentachlorobiphenyl	ug/kg	--	--	0.00783	0.000076	**Yes**	7	**Yes**
Tissue - Crayfish	PCB Congeners	W	Total	156 + 157	2,3,3',4,4',5-Hexachlorobiphenyl + 2,3,3',4,4',5'-Hexachlorobiphenyl	ug/kg	--	--	3.91	0.25	**Yes**	4	**Yes**
Tissue - Crayfish	PCB Congeners	W	Total	167	2,3',4,4',5,5'-Hexachlorobiphenyl	ug/kg	--	--	1.53	0.25	**Yes**	3	**Yes**
Tissue - Crayfish	PCB Congeners	W	Total	189	2,3,3',4,4',5,5'-Heptachlorobiphenyl	ug/kg	--	--	0.0821	0.25	No	0	No
Tissue - Crayfish	SVOCs	W	Total		Acenaphthene	ug/kg	--	--	0.260	15,000	No	0	No
Tissue - Crayfish	SVOCs	W	Total		Anthracene	ug/kg	--	--	0.160	15,000	No	0	No
Tissue - Crayfish	SVOCs	W	Total		Benzo(a)anthracene	ug/kg	--	--	0.350	1.57	No	0	No
Tissue - Crayfish	SVOCs	W	Total		Benzo(a)pyrene	ug/kg	--	--	0.170	0.157	Yes	2	**Yes**
Tissue - Crayfish	SVOCs	W	Total		Benzo(b)fluoranthene	ug/kg	--	--	0.240	1.57	No	0	No
Tissue - Crayfish	SVOCs	W	Total		Benzo(g,h,i)perylene	ug/kg	--	--	0.390	15.7	No	0	No
Tissue - Crayfish	SVOCs	W	Total		Benzo(k)fluoranthene	ug/kg	--	--	0.160	15.7	No	0	No
Tissue - Crayfish	SVOCs	W	Total		Bis(2-ethylhexyl) Phthalate	ug/kg	--	--	110	81.9	Yes	2	**Yes**
Tissue - Crayfish	SVOCs	W	Total		Chrysene	ug/kg	--	--	0.310	157	No	0	No
Tissue - Crayfish	SVOCs	W	Total		Fluoranthene	ug/kg	--	--	0.750	19,000	No	0	No
Tissue - Crayfish	SVOCs	W	Total		Fluorene	ug/kg	--	--	0.210	15,000	No	0	No
Tissue - Crayfish	SVOCs	W	Total		Indeno(1,2,3-cd)pyrene	ug/kg	--	--	0.180	1.57	No	0	No
Tissue - Crayfish	SVOCs	W	Total		Phenanthrene	ug/kg	--	--	0.860	15,000	No	0	No
Tissue - Crayfish	SVOCs	W	Total		Pyrene	ug/kg	--	--	1.20	1,000	No	0	No
Tissue - Smallmouth Bass	Metals	W	Total		Aluminum	mg/kg	--	**Yes**	15.5	NV	***Yes***	--	***Yes***
Tissue - Smallmouth Bass	Metals	W	Total		Arsenic	mg/kg	--	No	--	--	--	--	No
Tissue - Smallmouth Bass	Metals	W	Total		Barium	mg/kg	--	**Yes**	2.64	NV	***Yes***	--	***Yes***
Tissue - Smallmouth Bass	Metals	W	Total		Beryllium	mg/kg	--	No	--	--	--	--	No
Tissue - Smallmouth Bass	Metals	W	Total		Cadmium	mg/kg	--	No	--	--	--	--	No
Tissue - Smallmouth Bass	Metals	W	Total		Chromium	mg/kg	--	No	--	--	--	--	No
Tissue - Smallmouth Bass	Metals	W	Total		Cobalt	mg/kg	--	No	--	--	--	--	No
Tissue - Smallmouth Bass	Metals	W	Total		Copper	mg/kg	--	**Yes**	1.42	NV	***Yes***	--	***Yes***
Tissue - Smallmouth Bass	Metals	W	Total		Lead	mg/kg	--	No	--	--	--	--	No
Tissue - Smallmouth Bass	Metals	W	Total		Mercury	mg/kg	--	**Yes**	0.512	0.049	**Yes**	19	**Yes**
Tissue - Smallmouth Bass	Metals	W	Total		Nickel	mg/kg	--	No	--	--	--	--	No
Tissue - Smallmouth Bass	Metals	W	Total		Thallium	mg/kg	--	No	--	--	--	--	No
Tissue - Smallmouth Bass	Metals	W	Total		Vanadium	mg/kg	--	No	--	--	--	--	No
Tissue - Smallmouth Bass	Metals	W	Total		Zinc	mg/kg	--	**Yes**	18.0	NV	***Yes***	--	***Yes***
Tissue - Smallmouth Bass	PCB Aroclors	W	Total		Aroclor 1242	ug/kg	--	--	260	0.57	**Yes**	1	**Yes**
Tissue - Smallmouth Bass	PCB Aroclors	W	Total		Aroclor 1254	ug/kg	--	--	18,000	0.57	**Yes**	7	**Yes**
Tissue - Smallmouth Bass	PCB Aroclors	W	Total		Total PCBs As Aroclors	ug/kg	--	--	18,110	0.57	**Yes**	7	**Yes**
Tissue - Smallmouth Bass	PCB Congeners	W	Total	-	Total PCBs As Congeners (KM, capped)	ug/kg	--	--	26,505	0.57	**Yes**	19	**Yes**
Tissue - Smallmouth Bass	PCB Congeners	W	Total	77	3,3',4,4'-Tetrachlorobiphenyl	ug/kg	--	--	8.95	0.076	**Yes**	10	**Yes**

Table 9-8
Preliminary COPC Identification for Forebay Random Data
Bradford Island - River Operable Unit
(4 of 6)

Medium	Analyte Group	Basis	Total/ Dissolved	IUPAC #	Analyte	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in Forebay than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Dections > SLV	Retain as Preliminary COPC?
Tissue - Smallmouth Bass	PCB Congeners	W	Total	81	3,4,4',5-Tetrachlorobiphenyl	ug/kg	--	--	1.19	0.025	**Yes**	1	**Yes**
Tissue - Smallmouth Bass	PCB Congeners	W	Total	105	2,3,3',4,4'-Pentachlorobiphenyl	ug/kg	--	--	1,300	0.25	**Yes**	19	**Yes**
Tissue - Smallmouth Bass	PCB Congeners	W	Total	114	2,3,4,4',5-Pentachlorobiphenyl	ug/kg	--	--	89.8	0.25	**Yes**	12	**Yes**
Tissue - Smallmouth Bass	PCB Congeners	W	Total	118	2,3',4,4',5-Pentachlorobiphenyl	ug/kg	--	--	3,270	0.25	**Yes**	19	**Yes**
Tissue - Smallmouth Bass	PCB Congeners	W	Total	123	2,3',4,4',5'-Pentachlorobiphenyl	ug/kg	--	--	55.3	0.25	**Yes**	9	**Yes**
Tissue - Smallmouth Bass	PCB Congeners	W	Total	126	3,3',4,4',5-Pentachlorobiphenyl	ug/kg	--	--	3.03	0.000076	**Yes**	18	**Yes**
Tissue - Smallmouth Bass	PCB Congeners	W	Total	156 + 157	2,3,3',4,4',5-Hexachlorobiphenyl + 2,3,3',4,4',5'-Hexachlorobiphenyl	ug/kg	--	--	486	0.25	**Yes**	19	**Yes**
Tissue - Smallmouth Bass	PCB Congeners	W	Total	167	2,3',4,4',5,5'-Hexachlorobiphenyl	ug/kg	--	--	140	0.25	**Yes**	15	**Yes**
Tissue - Smallmouth Bass	PCB Congeners	W	Total	189	2,3,3',4,4',5,5'-Heptachlorobiphenyl	ug/kg	--	--	10.1	0.25	**Yes**	9	**Yes**
Tissue - Smallmouth Bass	SVOCs	W	Total		Acenaphthene	ug/kg	--	--	1.60	15,000	No	0	No
Tissue - Smallmouth Bass	SVOCs	W	Total		Anthracene	ug/kg	--	--	17.0	15,000	No	0	No
Tissue - Smallmouth Bass	SVOCs	W	Total		Benzo(a)anthracene	ug/kg	--	--	17.0	1.57	Yes	2	**Yes**
Tissue - Smallmouth Bass	SVOCs	W	Total		Benzo(a)pyrene	ug/kg	--	--	7.40	0.157	Yes	8	**Yes**
Tissue - Smallmouth Bass	SVOCs	W	Total		Benzo(b)fluoranthene	ug/kg	--	--	4.40	1.57	Yes	5	**Yes**
Tissue - Smallmouth Bass	SVOCs	W	Total		Benzo(g,h,i)perylene	ug/kg	--	--	3.30	15.7	No	0	No
Tissue - Smallmouth Bass	SVOCs	W	Total		Benzo(k)fluoranthene	ug/kg	--	--	7.70	15.7	No	0	No
Tissue - Smallmouth Bass	SVOCs	W	Total		Bis(2-ethylhexyl) Phthalate	ug/kg	--	--	1,600	81.9	Yes	7	**Yes**
Tissue - Smallmouth Bass	SVOCs	W	Total		Butyl Benzyl Phthalate	ug/kg	--	--	440	310	Yes	1	**Yes**
Tissue - Smallmouth Bass	SVOCs	W	Total		Chrysene	ug/kg	--	--	10.0	157	No	0	No
Tissue - Smallmouth Bass	SVOCs	W	Total		Dibenz(a,h)anthracene	ug/kg	--	--	4.10	0.157	Yes	6	**Yes**
Tissue - Smallmouth Bass	SVOCs	W	Total		Di-n-butyl Phthalate	ug/kg	--	--	150	626	No	0	No
Tissue - Smallmouth Bass	SVOCs	W	Total		Fluoranthene	ug/kg	--	--	6.50	19,000	No	0	No
Tissue - Smallmouth Bass	SVOCs	W	Total		Fluorene	ug/kg	--	--	4.70	15,000	No	0	No
Tissue - Smallmouth Bass	SVOCs	W	Total		Indeno(1,2,3-cd)pyrene	ug/kg	--	--	6.10	1.57	Yes	5	**Yes**
Tissue - Smallmouth Bass	SVOCs	W	Total		Phenanthrene	ug/kg	--	--	5.70	15,000	No	0	No
Tissue - Smallmouth Bass	SVOCs	W	Total		Pyrene	ug/kg	--	--	7.20	1,000	No	0	No
Tissue - Clam	Metals	W	Total		Aluminum	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W	Total		Antimony	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W	Total		Arsenic	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W	Total		Barium	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W	Total		Beryllium	mg/kg	--	**Yes**	0.00380	NV	***Yes***	--	***Yes***
Tissue - Clam	Metals	W	Total		Cadmium	mg/kg	--	**Yes**	0.461	0.15	**Yes**	19	**Yes**
Tissue - Clam	Metals	W	Total		Chromium	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W	Total		Cobalt	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W	Total		Copper	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W	Total		Lead	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W	Total		Mercury	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W	Total		Methyl Mercury	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W	Total		Nickel	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W	Total		Thallium	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W	Total		Vanadium	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W	Total		Zinc	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	PCB Aroclors	W	Total		Aroclor 1254	ug/kg	--	--	120	35	**Yes**	1	**Yes**
Tissue - Clam	PCB Aroclors	W	Total		Total PCBs As Aroclors	ug/kg	--	--	120	35	**Yes**	1	**Yes**
Tissue - Clam	PCB Congeners	W	Total	-	Total PCBs As Congeners (KM, capped)	ug/kg	--	--	312	35	**Yes**	5	**Yes**
Tissue - Clam	PCB Congeners	W	Total	77	3,3',4,4'-Tetrachlorobiphenyl	ug/kg	--	--	0.0690	0.16	No	0	No

Table 9-8
Preliminary COPC Identification for Forebay Random Data
Bradford Island - River Operable Unit
(5 of 6)

Medium	Analyte Group	Basis	Total/ Dissolved	IUPAC #	Analyte	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in Forebay than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Dections > SLV	Retain as Preliminary COPC?
Tissue - Clam	PCB Congeners	W	Total	81	3,4,4',5-Tetrachlorobiphenyl	ug/kg	--	--	0.00246	0.08	No	0	No
Tissue - Clam	PCB Congeners	W	Total	105	2,3,3',4,4'-Pentachlorobiphenyl	ug/kg	--	--	6.20	20	No	0	No
Tissue - Clam	PCB Congeners	W	Total	114	2,3,4,4',5-Pentachlorobiphenyl	ug/kg	--	--	0.445	20	No	0	No
Tissue - Clam	PCB Congeners	W	Total	118	2,3',4,4',5-Pentachlorobiphenyl	ug/kg	--	--	64.7	20	**Yes**	1	**Yes**
Tissue - Clam	PCB Congeners	W	Total	123	2,3',4,4',5'-Pentachlorobiphenyl	ug/kg	--	--	1.15	20	No	0	No
Tissue - Clam	PCB Congeners	W	Total	126	3,3',4,4',5-Pentachlorobiphenyl	ug/kg	--	--	0.0110	0.0058	**Yes**	1	**Yes**
Tissue - Clam	PCB Congeners	W	Total	156 + 157	2,3,3',4,4',5-Hexachlorobiphenyl + 2,3,3',4,4',5'-Hexachlorobiphenyl	ug/kg	--	--	3.61	20	No	0	No
Tissue - Clam	PCB Congeners	W	Total	167	2,3',4,4',5,5'-Hexachlorobiphenyl	ug/kg	--	--	3.80	20	No	0	No
Tissue - Clam	PCB Congeners	W	Total	189	2,3,3',4,4',5,5'-Heptachlorobiphenyl	ug/kg	--	--	0.0101	20	No	0	No
Tissue - Clam	SVOCs	W	Total		Acenaphthene	ug/kg	--	--	4.10	19,000	No	0	No
Tissue - Clam	SVOCs	W	Total		Anthracene	ug/kg	--	--	2.30	19,000	No	0	No
Tissue - Clam	SVOCs	W	Total		Benzo(a)anthracene	ug/kg	--	--	2.10	1,000	No	0	No
Tissue - Clam	SVOCs	W	Total		Benzo(a)pyrene	ug/kg	--	--	0.580	1,000	No	0	No
Tissue - Clam	SVOCs	W	Total		Benzo(b)fluoranthene	ug/kg	--	--	0.950	1,000	No	0	No
Tissue - Clam	SVOCs	W	Total		Benzo(g,h,i)perylene	ug/kg	--	--	0.360	1,000	No	0	No
Tissue - Clam	SVOCs	W	Total		Benzo(k)fluoranthene	ug/kg	--	--	0.250	1,000	No	0	No
Tissue - Clam	SVOCs	W	Total		Bis(2-ethylhexyl) Phthalate	ug/kg	--	--	890	1,760	No	0	No
Tissue - Clam	SVOCs	W	Total		Butyl Benzyl Phthalate	ug/kg	--	--	15.0	310	No	0	No
Tissue - Clam	SVOCs	W	Total		Chrysene	ug/kg	--	--	4.00	1,000	No	0	No
Tissue - Clam	SVOCs	W	Total		Di-n-octyl Phthalate	ug/kg	--	--	38.0	626	No	0	No
Tissue - Clam	SVOCs	W	Total		Fluoranthene	ug/kg	--	--	16.0	19,000	No	0	No
Tissue - Clam	SVOCs	W	Total		Fluorene	ug/kg	--	--	3.80	19,000	No	0	No
Tissue - Clam	SVOCs	W	Total		Indeno(1,2,3-cd)pyrene	ug/kg	--	--	2.50	1,000	No	0	No
Tissue - Clam	SVOCs	W	Total		p-cresol (4-Methylphenol)	ug/kg	--	--	31.0	NV	***Yes***	--	***Yes***
Tissue - Clam	SVOCs	W	Total		Phenanthrene	ug/kg	--	--	15.0	19,000	No	0	No
Tissue - Clam	SVOCs	W	Total		Pyrene	ug/kg	--	--	6.30	1,000	No	0	No
Tissue - Sculpin	Metals	W	Total		Arsenic	mg/kg	--	No	--	--	--	--	No
Tissue - Sculpin	Metals	W	Total		Cadmium	mg/kg	--	**Yes**	0.0453	0.15	No	0	No
Tissue - Sculpin	Metals	W	Total		Lead	mg/kg	--	**Yes**	0.306	0.12	**Yes**	2	**Yes**
Tissue - Sculpin	Metals	W	Total		Mercury	mg/kg	--	**Yes**	0.308	0.074	**Yes**	13	**Yes**
Tissue - Sculpin	PCB Aroclors	W	Total		Aroclor 1254	ug/kg	--	--	1,700	35	**Yes**	3	**Yes**
Tissue - Sculpin	PCB Aroclors	W	Total		Total PCBs As Aroclors	ug/kg	--	--	1,700	35	**Yes**	3	**Yes**
Tissue - Sculpin	PCB Congeners	W	Total	-	Total PCBs As Congeners (KM, capped)	ug/kg	--	--	4,773	35	**Yes**	9	**Yes**
Tissue - Sculpin	PCB Congeners	W	Total	77	3,3',4,4'-Tetrachlorobiphenyl	ug/kg	--	--	0.443	0.16	**Yes**	1	**Yes**
Tissue - Sculpin	PCB Congeners	W	Total	81	3,4,4',5-Tetrachlorobiphenyl	ug/kg	--	--	0.00145	0.08	No	0	No
Tissue - Sculpin	PCB Congeners	W	Total	105	2,3,3',4,4'-Pentachlorobiphenyl	ug/kg	--	--	269	20	**Yes**	3	**Yes**
Tissue - Sculpin	PCB Congeners	W	Total	114	2,3,4,4',5-Pentachlorobiphenyl	ug/kg	--	--	19.9	20	No	0	No
Tissue - Sculpin	PCB Congeners	W	Total	118	2,3',4,4',5-Pentachlorobiphenyl	ug/kg	--	--	757	20	**Yes**	3	**Yes**
Tissue - Sculpin	PCB Congeners	W	Total	123	2,3',4,4',5'-Pentachlorobiphenyl	ug/kg	--	--	11.8	20	No	0	No
Tissue - Sculpin	PCB Congeners	W	Total	126	3,3',4,4',5-Pentachlorobiphenyl	ug/kg	--	--	0.0540	0.0058	**Yes**	9	**Yes**
Tissue - Sculpin	PCB Congeners	W	Total	156 + 157	2,3,3',4,4',5-Hexachlorobiphenyl + 2,3,3',4,4',5'-Hexachlorobiphenyl	ug/kg	--	--	118	20	**Yes**	3	**Yes**
Tissue - Sculpin	PCB Congeners	W	Total	167	2,3',4,4',5,5'-Hexachlorobiphenyl	ug/kg	--	--	30.8	20	**Yes**	1	**Yes**
Tissue - Sculpin	PCB Congeners	W	Total	169	3,3',4,4',5,5'-Hexachlorobiphenyl	ug/kg	--	--	0.00365	0.020	No	0	No
Tissue - Sculpin	PCB Congeners	W	Total	189	2,3,3',4,4',5,5'-Heptachlorobiphenyl	ug/kg	--	--	2.48	20	No	0	No

Table 9-8
Preliminary COPC Identification for Forebay Random Data
Bradford Island - River Operable Unit
(6 of 6)

Medium	Analyte Group	Basis	Total/ Dissolved	IUPAC #	Analyte	Unit	Detection Rate > 5%?[1]	Significantly Higher Conc in Forebay than Reference?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Dections > SLV	Retain as Preliminary COPC?

Notes
(1) Only evaluated for analytes with a sample size of 20 or more.
(2) Only applicable to inorganics. For sediment and tissue the statistical comparison of Forebay concentrations to Reference Area concentrations; Table 8-3 and Appendix L, Tables L-4, L-5, and L-6.
For surface water, see Table 8-4.
(3) Total PCB TEQs are evaluated in the HHRA and ERA for the River OU; see Sections 11 and 12 and Appendices M and N.

'--' = Not evaluated
% = percent
D = Dry weight
Max = maximum
MDL = method detection limit
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
Min = minimum
ND = non-detect
No. = number
NWTPH-Dx = northwest total petroleum hydrocarbon-diesel-extended
NWTPH-Gx =northwest total petroleum hydrocarbon-gasoline-extended
PCB = polychlorinated biphenyl
C + F = Column and filter
SLV = screening level value
SVOC = semi-volatile organic carbon
ug/kg = micrograms per kilogram
ug/L = micrograms per liter
W = Wet Weight

Table 9-9
Preliminary COPC Identification for Targeted Goose Island Data
Bradford Island - River Operable Unit
(1 of 4)

Medium	Analyte Group	Basis	IUPAC #	Analyte	Unit	Detection Rate > 5%?[1]	Higher Conc than Reference Area?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Sediment	Metals	D		Aluminum	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D		Antimony	mg/kg	--	**Yes**	0.580	3.00	No	0	No
Sediment	Metals	D		Arsenic	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D		Barium	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D		Beryllium	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D		Cadmium	mg/kg	--	**Yes**	1.17	0.674	**Yes**	2	**Yes**
Sediment	Metals	D		Chromium	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D		Cobalt	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D		Copper	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D		Lead	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D		Mercury	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D		Nickel	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D		Thallium	mg/kg	--	**Yes**	0.435	0.354	**Yes**	1	**Yes**
Sediment	Metals	D		Vanadium	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	D		Zinc	mg/kg	--	**Yes**	148	123	**Yes**	1	**Yes**
Sediment	NWTPH-Dx	D		Diesel Range Organics	mg/kg	--	--	53.0	NV	***Yes***	--	***Yes***
Sediment	NWTPH-Dx	D		Residual Range Organics	mg/kg	--	--	480	NV	***Yes***	--	***Yes***
Sediment	PCB Aroclors	D		Aroclor 1254	ug/kg	--	--	9.90	0.048	**Yes**	1	**Yes**
Sediment	PCB Aroclors	D		Total PCBs As Aroclors	ug/kg	--	--	12.6	0.048	**Yes**	1	**Yes**
Sediment	PCB Congeners	D	-	Total PCBs As Congeners (KM, capped)	ug/kg	--	--	1.34	0.048	**Yes**	2	**Yes**
Sediment	PCB Congeners	D	77	3,3',4,4'-Tetrachlorobiphenyl	ug/kg	--	--	0.00353	0.0064	No	0	No
Sediment	PCB Congeners	D	81	3,4,4',5-Tetrachlorobiphenyl	ug/kg	--	--	0.000135	0.0021	No	0	No
Sediment	PCB Congeners	D	105	2,3,3',4,4'-Pentachlorobiphenyl	ug/kg	--	--	0.0277	0.021	**Yes**	2	**Yes**
Sediment	PCB Congeners	D	114	2,3,4,4',5-Pentachlorobiphenyl	ug/kg	--	--	0.00137	0.021	No	0	No
Sediment	PCB Congeners	D	118	2,3',4,4',5-Pentachlorobiphenyl	ug/kg	--	--	0.0695	0.026	**Yes**	2	**Yes**
Sediment	PCB Congeners	D	123	2,3',4,4',5'-Pentachlorobiphenyl	ug/kg	--	--	0.000963	0.026	No	0	No
Sediment	PCB Congeners	D	156 + 157	2,3,3',4,4',5-Hexachlorobiphenyl + 2,3,3',4,4',5'-Hexachlorobiphenyl	ug/kg	--	--	0.0104	0.026	No	0	No
Sediment	PCB Congeners	D	167	2,3',4,4',5,5'-Hexachlorobiphenyl	ug/kg	--	--	0.00402	0.026	No	0	No
Sediment	PCB Congeners	D	189	2,3,3',4,4',5,5'-Heptachlorobiphenyl	ug/kg	--	--	0.000869	0.14	No	0	No
Sediment	SVOCs	D		Benzo(a)anthracene	ug/kg	--	--	7.80	32.0	No	0	No
Sediment	SVOCs	D		Benzo(a)pyrene	ug/kg	--	--	13.0	32.0	No	0	No
Sediment	SVOCs	D		Benzo(b)fluoranthene	ug/kg	--	--	15.0	27.0	No	0	No
Sediment	SVOCs	D		Benzo(g,h,i)perylene	ug/kg	--	--	9.90	300	No	0	No
Sediment	SVOCs	D		Benzo(k)fluoranthene	ug/kg	--	--	4.10	27.0	No	0	No
Sediment	SVOCs	D		Bis(2-ethylhexyl) Phthalate	ug/kg	--	--	13.0	750	No	0	No
Sediment	SVOCs	D		Chrysene	ug/kg	--	--	11.0	57.0	No	0	No
Sediment	SVOCs	D		Di-n-butyl Phthalate	ug/kg	--	--	10.0	110	No	0	No
Sediment	SVOCs	D		Fluoranthene	ug/kg	--	--	9.60	111	No	0	No

Table 9-9
Preliminary COPC Identification for Targeted Goose Island Data
Bradford Island - River Operable Unit
(2 of 4)

Medium	Analyte Group	Basis	IUPAC #	Analyte	Unit	Detection Rate > 5%?[1]	Higher Conc than Reference Area?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Sediment	SVOCs	D		Indeno(1,2,3-cd)pyrene	ug/kg	--	--	7.10	17.0	No	0	No
Sediment	SVOCs	D		p-cresol (4-Methylphenol)	ug/kg	--	--	8.50	48.0	No	0	No
Sediment	SVOCs	D		Phenanthrene	ug/kg	--	--	4.60	42.0	No	0	No
Sediment	SVOCs	D		Pyrene	ug/kg	--	--	8.80	53.0	No	0	No
Sediment	SVOCs	D		Total LPAH (KM, capped)	ug/kg	--	--	9.90	76.0	No	0	No
Sediment	SVOCs	D		Total HPAH (KM, capped)	ug/kg	--	--	89.1	193	No	0	No
Sediment	SVOCs	D		Total PAHs (KM, capped)	ug/kg	--	--	96.1	1610	No	0	No
Tissue - Crayfish	Metals	W		Aluminum	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	Metals	W		Antimony	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	Metals	W		Arsenic	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	Metals	W		Barium	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	Metals	W		Beryllium	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	Metals	W		Cadmium	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	Metals	W		Chromium	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	Metals	W		Cobalt	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	Metals	W		Copper	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	Metals	W		Lead	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	Metals	W		Mercury	mg/kg	--	**Yes**	0.0359	0.049	No	0	No
Tissue - Crayfish	Metals	W		Nickel	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	Metals	W		Thallium	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	Metals	W		Vanadium	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	Metals	W		Zinc	mg/kg	--	No	--	--	--	--	No
Tissue - Crayfish	PCB Congeners	W	-	Total PCBs As Congeners (KM, capped)	ug/kg	--	--	0.587	0.57	**Yes**	1	**Yes**
Tissue - Crayfish	PCB Congeners	W	77	3,3',4,4'-Tetrachlorobiphenyl	ug/kg	--	--	0.00226	0.076	No	0	No
Tissue - Crayfish	PCB Congeners	W	105	2,3,3',4,4'-Pentachlorobiphenyl	ug/kg	--	--	0.00624	0.25	No	0	No
Tissue - Crayfish	PCB Congeners	W	114	2,3,4,4',5-Pentachlorobiphenyl	ug/kg	--	--	0.00235	0.25	No	0	No
Tissue - Crayfish	PCB Congeners	W	118	2,3',4,4',5-Pentachlorobiphenyl	ug/kg	--	--	0.0870	0.25	No	0	No
Tissue - Crayfish	PCB Congeners	W	123	2,3',4,4',5'-Pentachlorobiphenyl	ug/kg	--	--	0.00256	0.25	No	0	No
Tissue - Crayfish	PCB Congeners	W	156 + 157	2,3,3',4,4',5-Hexachlorobiphenyl + 2,3,3',4,4',5'-Hexachlorobiphenyl	ug/kg	--	--	0.0133	0.25	No	0	No
Tissue - Crayfish	PCB Congeners	W	167	2,3',4,4',5,5'-Hexachlorobiphenyl	ug/kg	--	--	0.0112	0.25	No	0	No
Tissue - Crayfish	PCB Congeners	W	189	2,3,3',4,4',5,5'-Heptachlorobiphenyl	ug/kg	--	--	0.000662	0.25	No	0	No
Tissue - Crayfish	SVOCs	W		Anthracene	ug/kg	--	--	0.430	15,000	No	0	No
Tissue - Crayfish	SVOCs	W		Benzo(b)fluoranthene	ug/kg	--	--	0.150	1.57	No	0	No
Tissue - Crayfish	SVOCs	W		Benzo(g,h,i)perylene	ug/kg	--	--	0.110	15.7	No	0	No
Tissue - Crayfish	SVOCs	W		Benzo(k)fluoranthene	ug/kg	--	--	0.110	15.7	No	0	No
Tissue - Crayfish	SVOCs	W		Fluorene	ug/kg	--	--	0.510	15,000	No	0	No
Tissue - Crayfish	SVOCs	W		Indeno(1,2,3-cd)pyrene	ug/kg	--	--	0.150	1.57	No	0	No
Tissue - Crayfish	SVOCs	W		Phenanthrene	ug/kg	--	--	0.820	15,000	No	0	No

Table 9-9
Preliminary COPC Identification for Targeted Goose Island Data
Bradford Island - River Operable Unit
(3 of 4)

Medium	Analyte Group	Basis	IUPAC #	Analyte	Unit	Detection Rate > 5%?[1]	Higher Conc than Reference Area?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Tissue - Clam	Metals	W		Aluminum	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W		Arsenic	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W		Barium	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W		Beryllium	mg/kg	--	**Yes**	0.00200	NV	***Yes***	--	***Yes***
Tissue - Clam	Metals	W		Cadmium	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W		Chromium	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W		Cobalt	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W		Copper	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W		Lead	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W		Mercury	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W		Nickel	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W		Thallium	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W		Vanadium	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	Metals	W		Zinc	mg/kg	--	No	--	--	--	--	No
Tissue - Clam	PCB Congeners	W	-	Total PCBs As Congeners (KM, capped)	ug/kg	--	--	21.4	35	No	0	No
Tissue - Clam	PCB Congeners	W	77	3,3',4,4'-Tetrachlorobiphenyl	ug/kg	--	--	0.0337	0.16	No	0	No
Tissue - Clam	PCB Congeners	W	105	2,3,3',4,4'-Pentachlorobiphenyl	ug/kg	--	--	0.352	20	No	0	No
Tissue - Clam	PCB Congeners	W	114	2,3,4,4',5-Pentachlorobiphenyl	ug/kg	--	--	0.0228	20	No	0	No
Tissue - Clam	PCB Congeners	W	118	2,3',4,4',5-Pentachlorobiphenyl	ug/kg	--	--	1.59	20	No	0	No
Tissue - Clam	PCB Congeners	W	123	2,3',4,4',5'-Pentachlorobiphenyl	ug/kg	--	--	0.0280	20	No	0	No
Tissue - Clam	PCB Congeners	W	126	3,3',4,4',5-Pentachlorobiphenyl	ug/kg	--	--	0.00307	0.0058	No	0	No
Tissue - Clam	PCB Congeners	W	156 + 157	2,3,3',4,4',5-Hexachlorobiphenyl + 2,3,3',4,4',5'-Hexachlorobiphenyl	ug/kg	--	--	0.0969	20	No	0	No
Tissue - Clam	PCB Congeners	W	167	2,3',4,4',5,5'-Hexachlorobiphenyl	ug/kg	--	--	0.0925	20	No	0	No
Tissue - Clam	PCB Congeners	W	189	2,3,3',4,4',5,5'-Heptachlorobiphenyl	ug/kg	--	--	0.00157	20	No	0	No
Tissue - Clam	SVOCs	W		Acenaphthene	ug/kg	--	--	0.680	19,000	No	0	No
Tissue - Clam	SVOCs	W		Anthracene	ug/kg	--	--	1.20	19,000	No	0	No
Tissue - Clam	SVOCs	W		Benzo(a)anthracene	ug/kg	--	--	3.40	1,000	No	0	No
Tissue - Clam	SVOCs	W		Benzo(a)pyrene	ug/kg	--	--	0.750	1,000	No	0	No
Tissue - Clam	SVOCs	W		Benzo(b)fluoranthene	ug/kg	--	--	2.20	1,000	No	0	No
Tissue - Clam	SVOCs	W		Benzo(g,h,i)perylene	ug/kg	--	--	0.740	1,000	No	0	No
Tissue - Clam	SVOCs	W		Benzo(k)fluoranthene	ug/kg	--	--	1.30	1,000	No	0	No
Tissue - Clam	SVOCs	W		Chrysene	ug/kg	--	--	2.50	1,000	No	0	No
Tissue - Clam	SVOCs	W		Dibenz(a,h)anthracene	ug/kg	--	--	0.480	1,000	No	0	No
Tissue - Clam	SVOCs	W		Fluoranthene	ug/kg	--	--	18.0	19,000	No	0	No
Tissue - Clam	SVOCs	W		Fluorene	ug/kg	--	--	1.80	19,000	No	0	No
Tissue - Clam	SVOCs	W		Indeno(1,2,3-cd)pyrene	ug/kg	--	--	0.890	1,000	No	0	No
Tissue - Clam	SVOCs	W		p-cresol (4-Methylphenol)	ug/kg	--	--	29.0	NV	***Yes***	--	***Yes***
Tissue - Clam	SVOCs	W		Phenanthrene	ug/kg	--	--	10.0	19,000	No	0	No

Table 9-9
Preliminary COPC Identification for Targeted Goose Island Data
Bradford Island - River Operable Unit
(4 of 4)

Medium	Analyte Group	Basis	IUPAC #	Analyte	Unit	Detection Rate > 5%?[1]	Higher Conc than Reference Area?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Tissue - Clam	SVOCs	W		Pyrene	ug/kg	--	--	5.40	1,000	No	0	No
Tissue - Sculpin	PCB Congeners	W	-	Total PCBs As Congeners (KM, capped)	ug/kg	--	--	8.14	35	No	0	No
Tissue - Sculpin	PCB Congeners	W	77	3,3',4,4'-Tetrachlorobiphenyl	ug/kg	--	--	0.00799	0.16	No	0	No
Tissue - Sculpin	PCB Congeners	W	105	2,3,3',4,4'-Pentachlorobiphenyl	ug/kg	--	--	0.362	20	No	0	No
Tissue - Sculpin	PCB Congeners	W	114	2,3,4,4',5-Pentachlorobiphenyl	ug/kg	--	--	0.0220	20	No	0	No
Tissue - Sculpin	PCB Congeners	W	118	2,3',4,4',5-Pentachlorobiphenyl	ug/kg	--	--	0.872	20	No	0	No
Tissue - Sculpin	PCB Congeners	W	123	2,3',4,4',5'-Pentachlorobiphenyl	ug/kg	--	--	0.0163	20	No	0	No
Tissue - Sculpin	PCB Congeners	W	126	3,3',4,4',5-Pentachlorobiphenyl	ug/kg	--	--	0.00315	0.0058	No	0	No
Tissue - Sculpin	PCB Congeners	W	156 + 157	2,3,3',4,4',5-Hexachlorobiphenyl + 2,3,3',4,4',5'-Hexachlorobiphenyl	ug/kg	--	--	0.106	20	No	0	No
Tissue - Sculpin	PCB Congeners	W	167	2,3',4,4',5,5'-Hexachlorobiphenyl	ug/kg	--	--	0.0348	20	No	0	No
Tissue - Sculpin	PCB Congeners	W	189	2,3,3',4,4',5,5'-Heptachlorobiphenyl	ug/kg	--	--	0.00383	20	No	0	No

Notes
(1) Only evaluated for analytes with a sample size of 20 or more.
(2) Only evaluated for inorganics, see Appendix L, Table L-7
(3) Total PCB TEQs are evaluated in the HHRA and ERA for the River OU; see Sections 11 and 12 and Appendices M and N.
All concentrations are totals.

'--' = Not evaluated
% = percent
D = Dry weight
Max = maximum
mg/kg = milligrams per kilogram
Min = minimum
No. = number
NWTPH-Dx = northwest total petroleum hydrocarbon-diesel-extended
NWTPH-Gx =northwest total petroleum hydrocarbon-gasoline-extended
PCB = polychlorinated biphenyl
SLV = screening level value
SVOC = semi-volatile organic carbon
ug/kg = micrograms per kilogram
W = Wet Weight

Table 9-10
Preliminary COPC Identification for Targeted Eagle Creek Data
Bradford Island - Upland Operable Unit
(1 of 2)

Medium	Analyte Group	Analyte	Unit	Detection Rate > 5%?[1]	Higher Conc than Reference Area?[2]	Max Detected Value	Selected SLV	Maximum Detected Value > SLV?	No. of Detections > SLV	Retain as Preliminary COPC?
Sediment	Metals	Aluminum	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	Antimony	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	Arsenic	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	Barium	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	Beryllium	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	Chromium	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	Cobalt	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	Copper	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	Lead	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	Mercury	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	Nickel	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	Vanadium	mg/kg	--	No	--	--	--	--	No
Sediment	Metals	Zinc	mg/kg	--	No	--	--	--	--	No
Sediment	NWTPH-Dx	Diesel Range Organics	mg/kg	--	--	13.0	NV	***Yes***	--	***Yes***
Sediment	PCB Aroclors	Aroclor 1248	ug/kg	--	--	76.0	0.048	**Yes**	1	**Yes**
Sediment	PCB Aroclors	Total PCBs As Aroclors	ug/kg	--	--	77.7	0.048	**Yes**	1	**Yes**
Sediment	SVOCs	Anthracene	ug/kg	--	--	2.60	57.0	No	0	No
Sediment	SVOCs	Benzo(a)anthracene	ug/kg	--	--	6.60	32.0	No	0	No
Sediment	SVOCs	Benzo(a)pyrene	ug/kg	--	--	7.10	32.0	No	0	No
Sediment	SVOCs	Benzo(b)fluoranthene	ug/kg	--	--	11.0	27.0	No	0	No
Sediment	SVOCs	Benzo(g,h,i)perylene	ug/kg	--	--	5.00	300	No	0	No
Sediment	SVOCs	Benzo(k)fluoranthene	ug/kg	--	--	3.40	27.0	No	0	No
Sediment	SVOCs	Carbazole	ug/kg	--	--	2.20	140	No	0	No
Sediment	SVOCs	Chrysene	ug/kg	--	--	13.0	57.0	No	0	No
Sediment	SVOCs	Fluoranthene	ug/kg	--	--	11.0	111	No	0	No
Sediment	SVOCs	Indeno(1,2,3-cd)pyrene	ug/kg	--	--	4.60	17.0	No	0	No
Sediment	SVOCs	Phenanthrene	ug/kg	--	--	6.50	42.0	No	0	No
Sediment	SVOCs	Pyrene	ug/kg	--	--	17.0	53.0	No	0	No
Sediment	SVOCs	Total LPAH (KM, capped)	ug/kg	--	--	11.8	76.0	No	0	No
Sediment	SVOCs	Total HPAH (KM, capped)	ug/kg	--	--	80.9	193	No	0	No
Sediment	SVOCs	Total PAHs (KM, capped)	ug/kg	--	--	90.8	1610	No	0	No

Table 9-10
Preliminary COPC Identification for Targeted Eagle Creek Data
Bradford Island - Upland Operable Unit
(2 of 2)

Notes
(1) Only evaluated for analytes with a sample size of 20 or more.
(2) Only evaluated for inorganics, see Appendix L, Table L-7
All concentrations are totals and in dry weight.

'--' = Not evaluated
% = percent
Max = maximum
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
Min = minimum
No. = number
NWTPH-Dx = northwest total petroleum hydrocarbon-diesel-extended
NWTPH-Gx =northwest total petroleum hydrocarbon-gasoline-extended
PCB = polychlorinated biphenyl
SLV = screening level value
SVOC = semi-volatile organic carbon
ug/kg = micrograms per kilogram
W = Wet Weight

Table 9-11
River OU Preliminary COPC Summary
Bradford Island - River Operable Unit
(1 of 2)

Medium	Analyte Group	Random Forebay Preliminary COPCs	Targeted Goose Island Preliminary COPCs	Targeted Eagle Creek Preliminary COPCs
Detection Frequency > 5%, Detected > Reference (Inorganics), and Detected > SLV				
Sediment	Metals	None	Cadmium, Thallium, and Zinc	None
	TPH	None*	None*	None*
	PCB Aroclors	Aroclor 1254 and Total PCBs as Aroclors	Aroclor 1254 and Total PCBs as Aroclors	Aroclor 1248 and Total PCBs as Aroclors
	PCB Congeners	PCBs 77, 105, 114, 118, 123, 126, 156+157, and 167; and Total PCBs as Congeners	PCBs 105 and 118; and Total PCBs as Congeners	-
	PAHs	None	None	None
	SVOCs	None	None	None
Tissue-Clam	Metals	Cadmium	None*	(No clam samples)
	TPH	-	-	
	PCB Aroclors	Aroclor 1254 and Total PCBs as Aroclors	ND	
	PCB Congeners	PCBs 118 and 126; and Total PCBs as Congeners	None	
	PAHs	None	None	
	SVOCs	None*	None*	
Tissue- Crayfish	Metals	Arsenic	None	(No crayfish samples)
	TPH	-	-	
	PCB Aroclors	ND	ND	
	PCB Congeners	PCBs 114, 118, 123, 126, 156+157, and 167; and Total PCBs as Congeners	Total PCBs as Congeners	
	PAHs	Benzo(a)pyrene	None	
	SVOCs	Bis(2-ethylhexyl) Phthalate	ND	
Tissue - Sculpin	Metals	Lead and Mercury	-	(No sculpin samples)
	TPH	-	-	
	PCB Aroclors	Aroclor 1254 and Total PCBs as Aroclors	-	
	PCB Congeners	PCBs 77, 105, 118, 126, 156+157, and 167; and Total PCBs as Congeners	None	
	PAHs	-	-	
	SVOCs	-	-	

Table 9-11
River OU Preliminary COPC Summary
Bradford Island - River Operable Unit
(2 of 2)

Medium	Analyte Group	Random Forebay Preliminary COPCs	Targeted Goose Island Preliminary COPCs	Targeted Eagle Creek Preliminary COPCs
Detection Frequency > 5%, Detected > Reference (Inorganics), and Detected > SLV				
Tissue-Smallmouth Bass	Metals	Mercury	(No bass samples)	(No bass samples)
	TPH	-		
	PCB Aroclors	Aroclor 1242, Aroclor 1254, and Total PCBs as Aroclors		
	PCB Congeners	PCBs 77, 81, 105, 114, 118, 123, 126, 156+157, 167, and 189; and Total PCBs as Congeners		
	PAHs	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Dibenz(a,h)anthracene, and Indeno(1,2,3-cd)pyrene		
	SVOCs	Bis(2-ethylhexyl) Phthalate and Butyl Benzyl Phthalate		
Surface Water	Metals (Total)	None	(No surface water samples)	(No surface water samples)
	Metals (Dissolved)	Arsenic and Barium		
	TPH	None		
	PCB Congeners	Total PCBs as Congeners		
	PAHs	None		
	SVOCs	-		
Detection Frequency > 5%, Detected > Reference (Inorganics), and No SLV				
Sediment	TPH	DRO and RRO	DRO and RRO	DRO
Tissue-Clam	Metals	Beryllium	Beryllium	(No clam samples)
	SVOCs	p-cresol (4-Methylphenol)	p-cresol (4-Methylphenol)	
Tissue- Crayfish	Metals	Antimony, Chromium, and Nickel	None	(No crayfish samples)
Tissue-Smallmouth Bass	Metals	Aluminum, Barium, Copper, and Zinc	(No bass samples)	(No bass samples)

* See the section of the table for COFIs retained due to lack of SLVs
"-" = Not Analyzed
ND = Not Detected

Table 9-12
Comparison of Downstream Sediment Data to SLVs and River Reference Area
Bradford Island - River Operable Unit
(1 of 2)

Analyte Group	IUPAC #	Analyte	Unit	Max Detected Value	Lower of HH and Eco Sediment SLV	Reference Area Sediment 95% UPL	No. of Detections > SLV and Ref UPL
Metals		Aluminum	mg/kg	21,600	NV	38,000	0
Metals		Antimony	mg/kg	0.400	3.00	0.427	0
Metals		Arsenic	mg/kg	5.84	6.00	5.86	0
Metals		Barium	mg/kg	172	NV	315	0
Metals		Beryllium	mg/kg	0.513	0.600	0.847	0
Metals		Cadmium	mg/kg	0.791	37.0	0.674	1
Metals		Chromium	mg/kg	29.9	37.0	28.0	0
Metals		Cobalt	mg/kg	11.5	NV	15.2	0
Metals		Copper	mg/kg	24.1	36.0	55.6	0
Metals		Lead	mg/kg	12.7	35.0	14.5	0
Metals		Mercury	mg/kg	0.136	0.200	0.214	0
Metals		Nickel	mg/kg	15.2	18.0	21.2	0
Metals		Thallium	mg/kg	0.234	NV	0.354	0
Metals		Vanadium	mg/kg	73.5	NV	70.6	1
Metals		Zinc	mg/kg	117	123	106	0
NWTPH-Dx		Diesel Range Organics	mg/kg	25.0	NV	31.7	0
NWTPH-Dx		Residual Range Organics	mg/kg	41.0	NV	100	0
PCB Congeners	-	Total PCBs As Congeners (KM, capped)	ug/kg	0.917	0.0480	0.941	0
PCB Congeners	77	3,3',4,4'-Tetrachlorobiphenyl	ug/kg	0.00201	0.00640	0.00165	0
PCB Congeners	81	3,4,4',5-Tetrachlorobiphenyl	ug/kg	0.000260	0.00210	0.000143	0
PCB Congeners	105	2,3,3',4,4'-Pentachlorobiphenyl	ug/kg	0.0197	0.0210	0.0177	0
PCB Congeners	114	2,3,4,4',5-Pentachlorobiphenyl	ug/kg	0.000957	0.0210	0.00163	0
PCB Congeners	118	2,3',4,4',5-Pentachlorobiphenyl	ug/kg	0.0456	0.0260	0.0552	0
PCB Congeners	123	2,3',4,4',5'-Pentachlorobiphenyl	ug/kg	0.000874	0.0260	0.00122	0
PCB Congeners	126	3,3',4,4',5-Pentachlorobiphenyl	ug/kg	0.000211	0.0000062	0.000337	0
PCB Congeners	156 + 157	2,3,3',4,4',5-Hexachlorobiphenyl + 2,3,3',4,4',5'-Hexachlorobiphenyl	ug/kg	0.00625	0.0260	0.00579	0
PCB Congeners	167	2,3',4,4',5,5'-Hexachlorobiphenyl	ug/kg	0.00261	0.0260	0.00384	0
PCB Congeners	189	2,3,3',4,4',5,5'-Heptachlorobiphenyl	ug/kg	0.000596	0.140	0.000573	0
SVOCs		Anthracene	ug/kg	3.10	57.0	2.30	0
SVOCs		Benzo(a)anthracene	ug/kg	12.0	32.0	10.0	0
SVOCs		Benzo(a)pyrene	ug/kg	14.0	32.0	11.0	0

Table 9-12
Comparison of Downstream Sediment Data to SLVs and River Reference Area
Bradford Island - River Operable Unit
(2 of 2)

Analyte Group	IUPAC #	Analyte	Unit	Max Detected Value	Lower of HH and Eco Sediment SLV	Reference Area Sediment 95% UPL	No. of Detections > SLV and Ref UPL
SVOCs		Benzo(b)fluoranthene	ug/kg	16.0	27.0	17.0	0
SVOCs		Benzo(g,h,i)perylene	ug/kg	6.80	300	7.90	0
SVOCs		Benzo(k)fluoranthene	ug/kg	6.50	27.0	5.00	0
SVOCs		Carbazole	ug/kg	1.60	140	1.40	0
SVOCs		Chrysene	ug/kg	18.0	57.0	9.80	0
SVOCs		Dibenz(a,h)anthracene	ug/kg	2.30	33.0	2.30	0
SVOCs		Fluoranthene	ug/kg	22.0	111	31.0	0
SVOCs		Indeno(1,2,3-cd)pyrene	ug/kg	8.20	17.0	8.80	0
SVOCs		p-cresol (4-Methylphenol)	ug/kg	130	48.0	210	0
SVOCs		Phenanthrene	ug/kg	4.90	42.0	5.90	0
SVOCs		Pyrene	ug/kg	21.0	53.0	12.7	0
SVOCs		Total LPAH (KM, capped)	ug/kg	10.7	76.0	7.30	0
SVOCs		Total HPAH (KM, capped)	ug/kg	127	193	76.0	0
SVOCs		Total PAHs (KM, capped)	ug/kg	137	1610	76.0	0

Notes
All concentrations are in dry weight and total.

% = percent
COPC = C
Max = maximum
mg/kg = milligrams per kilogram
NV = no value
No. = number
NWTPH-Dx = northwest total petroleum hydrocarbon-diesel-extended
NWTPH-Gx =northwest total petroleum hydrocarbon-gasoline-extended
PAH = polycyclic aromatic hydrocarbon
PCB = polychlorinated biphenyl
SLV = screening level value
SVOC = semi-volatile organic carbon
ug/kg = micrograms per kilogram
UPL = upper prediction limit

Table 11-1
Summary of COPCs Recommended for Risk Management - Landfill AOPC
Bradford Island - Upland Operable Unit
(1 of 1)

Media	Chemicals of Potential Concern (COPCs) [1] [2]
Soil	Arsenic cPAHs Tetrachloroethene (PCE)
	Chromium Lead PCE Degradation Products [3]
Groundwater	Arsenic Bis(2-ethylhexyl) Phthalate Chloroform Diesel Range Organics Di-n-octyl Phthalate Manganese Residual Range Organics Tetrachloroethene (PCE) Vinyl Chloride
	1,2,4-Trimethylbenzene Antimony Barium Gasoline Range Organics Zinc Lead Mercury Thallium n-Propylbenzene Isopropylbenzene Tributyltin PCE Degradation Products [3]
Seepwater	Arsenic Chloroform Diesel Range Organics Lead Manganese Tetrachloroethene (PCE)
	Antimony Mercury Residual Range Organics PCE Degradation Products [3]
Surface Water (at Shoreline)	Arsenic
	Lead

cPAHs = Carcinogenic polynuclear aromatic hydrocarbons

Shaded indicates COPC selection rationales were not based on C/SLV>1 (i.e., selection was due to: multi-media, C/SLV>0.1, degradation product, no SLV, etc.,)

(1) Not all COPCs apply to all receptors and exposure pathways within that medium.

(2) Additional COPCs were identified and discussed for the erodible soil/mass wasting scenarios (see Appendix O, Section 0.2.1.6)

(3) Degradation products are dichloroethenes, TCE, and vinyl chloride.

Table 11-2
Summary of COPCs Recommended for Risk Management - Sandblast Area AOPC
Bradford Island - Upland Operable Unit
(1 of 1)

Media	Chemicals of Potential Concern (COPCs) [1] [2]
Soil	Arsenic cPAHs Chromium Lead Tetrachloroethene (PCE)
	PCE Degradation Products [3]
Soil Gas	Tetrachloroethene (PCE) Trichloroethene (TCE)
	PCE Degradation Products [3]
Groundwater	1,1-Dichloroethane Arsenic cPAHs Tetrachloroethene (PCE) Trichloroethene (TCE) Vinyl Chloride
	Diesel Range Organics Gasoline Range Organics Vanadium
	PCE Degradation Products [3]

cPAHs = Carcinogenic polynuclear aromatic hydrocarbons

Shaded indicates COPC selection rationales were not based on C/SLV>1 (i.e., selection was due to: multi-media, C/SLV>0.1, degradation product, no SLV, etc.,)

(1) Not all COPCs apply to all receptors and exposure pathways within that medium.

(2) Additional COPCs were identified and discussed for the erodible soil/mass wasting scenarios (see Appendix O, Section 0.2.1.6)

(3) Degradation products are dichloroethenes, TCE, and vinyl chloride.

Table 11-3
Summary of COPCs Recommended for Risk Management - River OU
Bradford Island - River Operable Unit
(1 of 1)

Media	Chemicals of Potential Concern (COPCs) [1] [2]
Random Forebay Tissue - Crayfish	Arsenic Polychlorinated Biphenyls (PCBs)
Random Forebay Tissue - Small Mouth Bass	cPAHs Bis(2-ethylhexyl) Phthalate Mercury PCBs Barium
Random Forebay Sediment	PCBs Mercury Bis(2-ethylhexyl) Phthalate
Forebay Surface Water	Arsenic PCBs Aluminum Lead
Eagle Creek Sediment	Anthracene cPAHs Diesel Range Organics Fluoranthene Phenanthrene Pyrene PCBs
Goose Island Tissue - Crayfish	PCBs
Goose Island Sediment	PCBs Bis(2-ethylhexyl) Phthalate

cPAHs = Carcinogenic polynuclear aromatic hydrocarbons

Shaded indicates COPC selection rationales were not based on C/SLV>1 (i.e., selection was due to: multi-media, C/SLV>0.1, degradation product, no SLV, etc.,)

(1) Not all COPCs apply to all receptors and exposure pathways within that medium.

(2) Additional COPCs were identified and discussed for the erodible soil/mass wasting scenarios (see Appendix O, Section 0.2.1.6)

Table 12-1
Summary of CPECs Recommended for Risk Management - Upland OU
Bradford Island - Upland Operable Unit
(1 of 1)

AOPC	Medium	CPECs
Landfill	Soil	Antimony, Chromium*, Copper*, Lead, Mercury, Nickel*, and total HPAHs
Sandblast Area	Soil	Antimony, Cadmium, Chromium, Lead, Mercury*, Nickel, Bis(2-ethylhexyl) phthalate, and total HPAHs
Pistol Range	Soil	Lead
Bulb Slope	Soil	Lead, Mercury

Notes
AOPC - area of potential concern
CPEC - chemical of potential ecological concern
HPAHs - high molecular weight polycyclic aromatic hydrocarbons

* These metals were eliminated as CPECs based on the statistical background comparison, but were ultimately retained for risk management based on the additional evaluation performed in Section O.3.1.2 of Appendix O.

Note: In addition to the CPECs listed in this table, CPECs in soils identified based on the evaluation of potential transport to the River OU via mass wasting or erosion are also recommended for risk management (see Section O.3.1.5 of Appendix O).

Table 12-2
Summary of CPECs Recommended for Risk Management - River OU
Bradford Island - River Operable Unit
(1 of 1)

Data Set	Receptor Group	Medium	CPECs
Random Forebay	Benthic Community	Sediment	PCBs
	Fish and Shellfish	Clam Tissue	Cadmium
		Sculpin Tissue	Cadmium, Lead, Mercury and PCBs
		Bass Tissue	Mercury and PCBs
		Sediment	Cadmium, Lead, Mercury and PCBs
	Birds	Crayfish Tissue	PCBs
		Sculpin Tissue	Mercury and PCBs
		Bass Tissue	Mercury and PCBs
		Sediment	Mercury and PCBs
	Mammals	Sculpin Tissue	Mercury and PCBs
		Bass Tissue	Mercury and PCBs
		Sediment	Mercury and PCBs
Eagle Creek	All	Sediment	PCBs

Notes

CPECs - chemicals of potential ecological concern

PCBs - polychlorinated biphenyls (as Aroclors and 209 congeners)

Note: Although CPEC concentrations in media collected from the targeted Goose Island samples indicate acceptable risk levels, Goose Island will be maintained as part of the Forebay evaluation in the forthcoming FS in response to DEQ's request.