

Historical Analytical Results and Groundwater Elevations

**TABLE A-1
HISTORICAL ANALYTICAL RESULTS
GROUNDWATER COMPLIANCE MONITORING
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON**

	Cleanup Screening Levels for Groundwater (a)	PZ-12	PZ-12	PZ-12	PZ-12	PZ-12	PZ-12	PZ-12	PZ-12	PZ-12	PZ-12	PZ-12	PZ-12	PZ-12	PZ-12	PZ-12	PZ-13
		2005060439-08 6/27/2005	2006030253-01 3/20/2006	2006110182-02 11/11/2006	LS10B 10/1/2007	MO26G 3/20/2008	NH92A 7/29/2008	OH11B 1/8/2009	PK28A 8/11/2009	QF84J 1/15/2010	RS33A 10/18/2010	SO90O 3/24/2011	TH68B 8/8/2011	UL19B 3/7/2012	VP53F 10/25/2012	WF57A 2/27/2013	2005060392-01 6/27/2005
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (µg/L)																	
EPA Method 8270D / 8270D-SIM																	
Naphthalene	4900	0.10 U	NA	0.30	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
2-Methylnaphthalene		NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA
Acenaphthylene		0.10 U	NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Acenaphthene		0.10 U	NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Dibenzofuran		NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA
Fluorene		0.10 U	NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Pentachlorophenol	3	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	NA
Phenanthrene		0.10 U	NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Carbazole		NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
Anthracene		0.20	NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Fluoranthene		0.10 U	NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Pyrene	2600	0.10 U	NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Benzo(a)Anthracene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chrysene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(b)Fluoranthene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	0.10 U
Benzo(k)Fluoranthene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	NA	NA	NA	NA	NA	NA	0.10 U
Benzo(a)Pyrene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Indeno(1,2,3-cd)Pyrene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Dibenz(a,h)Anthracene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(g,h,i)Perylene		0.10 U	NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
1-Methylnaphthalene		NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA
Total Benzofluoranthenes											0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	
cPAH TEQ (b)	0.1 (c)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cPAH TEQ (b) (Using 1/2 RL for ND)	0.1 (c)	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.071	0.071	0.071	0.071	0.076	0.076	0.076
PENTACHLOROPHENOL (µg/L)																	
EPA Method 8041/8270C,D																	
Pentachlorophenol	3	10 U	0.10 U	0.1 U	0.25 U	0.25 U	0.25 UJ	0.25 U	0.26 U	0.25 U	0.25 U	1.8	0.25 U	0.25 U	0.31	0.25 U	10 U
PETROLEUM HYDROCARBONS																	
Method NWTPH-G (µg/L)																	
Gasoline	1,000	50 U	50 U	50 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	50 U
Method NWTPH-Dx (µg/L)																	
Diesel	500	100 U	100 U	100 U	250 U	250 U	250 U	250 U	250 U	250 U	100 U	110 U	100 U	100 U	100 U	100 U	100 U
Motor Oil	500	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	200 U	220 U	200 U	200 U	200 U	200 U	500 U
Creosote Oil	500	NA	NA	NA	NA	250 U	500 U	250 U	500 U	250 U	100 U	220 U	200 U	200 U	100 U	100	NA
BTEX (µg/L)																	
Method SW8021B/SW021B MOD																	
Benzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m, p-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**TABLE A-1
HISTORICAL ANALYTICAL RESULTS
GROUNDWATER COMPLIANCE MONITORING
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON**

	Cleanup Screening Levels for Groundwater (a)	PZ-13	PZ-13	PZ-13	PZ-13	PZ-13	PZ-13	PZ-13	PZ-13	PZ-13	PZ-13	PZ-13	PZ-13	PZ-13	PZ-13	PZ-13	PZ-17
		2006030241-01 3/19/2006	2006110182-01 11/11/2006	LS10A 9/30/2007	MO26H 3/19/2008	NH92B 7/29/2008	OH11A 1/8/2009	PK28B 8/11/2009	PP40A 9/21/2009	QF84F 1/14/2010	RS33B 10/18/2010	SO90E 3/24/2011	TH68A 8/8/2011	UL19F 3/7/2012	VP53A 10/25/2012	WF57B 2/27/2013	2005060439-04 6/28/2005
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (µg/L)																	
EPA Method 8270D / 8270D-SIM																	
Naphthalene	4900	NA	10.2	1.0 U	1.0 U	1.0 U	1.0 U	9.1	4.0	2.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
2-Methylnaphthalene		NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA
Acenaphthylene		NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Acenaphthene		NA	0.75	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Dibenzofuran		NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA
Fluorene		NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Pentachlorophenol	3	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	NA
Phenanthrene		NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Carbazole		NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
Anthracene		NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Fluoranthene		NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Pyrene	2600	NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Benzo(a)Anthracene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chrysene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(b)Fluoranthene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.0 U	0.10 U	NA	NA	NA	NA	NA	NA	0.10 U
Benzo(k)Fluoranthene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.0 U	NA	NA	NA	NA	NA	NA	0.10 U
Benzo(a)Pyrene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Indeno(1,2,3-cd)Pyrene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Dibenz(a,h)Anthracene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(g,h,i)Perylene		NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
1-Methylnaphthalene		NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA
Total Benzofluoranthenes											0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	
cPAH TEQ (b)	0.1 (c)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cPAH TEQ (b) (Using 1/2 RL for ND)	0.1 (c)	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.76	0.076	0.071	0.071	0.071	0.071	0.076	0.076	0.076
PENTACHLOROPHENOL (µg/L)																	
EPA Method 8041/8270C,D																	
Pentachlorophenol	3	0.10 U	0.10 U	0.25 U	0.25 U	0.25 U	0.25 U	0.26 U		0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	10 U
PETROLEUM HYDROCARBONS																	
Method NWTPH-G (µg/L)																	
Gasoline	1,000	50 U	112	250 U	250 U	250 U	250 U	1,900	310	250 U	250 U	250 U	250 U	250	250 U	250 U	50 U
Method NWTPH-Dx (µg/L)																	
Diesel	500	100 U	100 U	250 U	250 U	250 U	250 U	250 U		250 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Motor Oil	500	500 U	500 U	500 U	500 U	500 U	500 U	500 U		500 U	200 U	200 U	200 U	200 U	200 U	200 U	500 U
Creosote Oil	500	NA	NA	NA	250 U	500 U	250 U	500 U		250 U	100 U	200 U	200 U	200 U	100 U	170	NA
BTEX (µg/L)																	
Method SW8021B/SW021B MOD																	
Benzene	5	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	1,000	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	700	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA
m, p-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA

**TABLE A-1
HISTORICAL ANALYTICAL RESULTS
GROUNDWATER COMPLIANCE MONITORING
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON**

	Cleanup Screening Levels for Groundwater (a)	PZ-17	PZ-17	PZ-17	PZ-17	PZ-17	PZ-17	PZ-17	PZ-17	PZ-17	PZ-17	PZ-17	PZ-17	PZ-17	PZ-17	PZ-18	PZ-18
		2006030253-02 3/20/2006	2006110200-01 11/13/2006	LS10E 10/1/2007	MO07B 3/19/2008	NH70B 7/28/2008	OH11C 1/8/2009	PJ99B 8/10/2009	QF84C 1/14/2010	RS33D 10/18/2010	SO90L 3/24/2011	TH68C 8/8/2011	UL19C 3/7/2012	VP53G 10/26/2012	WF57G 2/27/2013	2005060439-01 6/29/2005	2006030261-01 3/21/2006
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (µg/L)																	
EPA Method 8270D / 8270D-SIM																	
Naphthalene	4900	NA	0.11	1.0 U	1.0 U	1.0 U	1.0 U	1.2 U	1.0 U	1.0 U	3.2	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U	NA
2-Methylnaphthalene		NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
Acenaphthylene		NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U	NA
Acenaphthene		NA	0.23	1.0 U	1.0 U	1.0 U	1.0 U	1.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U	NA
Dibenzofuran		NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
Fluorene		NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U	NA
Pentachlorophenol	3	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.9 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	NA	NA
Phenanthrene		NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U	NA
Carbazole		NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA
Anthracene		NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U	NA
Fluoranthene		NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U	NA
Pyrene	2600	NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U	NA
Benzo(a)Anthracene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chrysene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(b)Fluoranthene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	0.10 U	0.10 U
Benzo(k)Fluoranthene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	0.10 U	0.10 U
Benzo(a)Pyrene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Indeno(1,2,3-cd)Pyrene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Dibenz(a,h)Anthracene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(g,h,i)Perylene		NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U	NA
1-Methylnaphthalene		NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
Total Benzofluoranthenes										0.10 U	0.11 U	0.10 U	0.10 U	0.20 U	0.20 U		
cPAH TEQ (b)	0.1 (c)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cPAH TEQ (b) (Using 1/2 RL for ND)	0.1 (c)	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.071	0.078	0.071	0.071	0.076	0.076	0.076	0.076
PENTACHLOROPHENOL (µg/L)																	
EPA Method 8041/8270C,D																	
Pentachlorophenol	3	0.10 U	0.10 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	10 U	0.10 U
PETROLEUM HYDROCARBONS																	
Method NWTPH-G (µg/L)																	
Gasoline	1,000	50 U	50 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	50 U	50 U
Method NWTPH-Dx (µg/L)																	
Diesel	500	100 U	100 U	250 U	250 U	250 U	250 U	250 U	250 U	100 U	100 U	110 U	100 U	100 U	100 U	100 U	100 U
Motor Oil	500	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	200 U	200 U	220 U	200 U	200 U	200 U	500 U	500 U
Creosote Oil	500	NA	NA	NA	250 U	500 U	250 U	250 U	250 U	100 U	200 U	220 U	200 U	100 U	150	NA	140
BTEX (µg/L)																	
Method SW8021B/SW021B MOD																	
Benzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m, p-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**TABLE A-1
HISTORICAL ANALYTICAL RESULTS
GROUNDWATER COMPLIANCE MONITORING
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON**

	Cleanup Screening Levels for Groundwater (a)	PZ-18	PZ-18	PZ-18	PZ-18	PZ-18	PZ-18	PZ-18	PZ-18	PZ-18	PZ-18	PZ-18	PZ-18	PZ-18	PZ-18	PZ-18	PZ-18	PZ-19
		2006110239-01 11/14/2006	LS10C 10/1/2007	MO07C 3/19/2008	NH70C 7/28/2008	NM64A 8/28/2008	OH11E 1/8/2009	PJ99C 8/10/2009	PP40B 9/21/2009	QF84K 1/15/2010	RS33L 10/19/2010	SO90F 3/24/2011	TH68F 8/8/2011	UL19E 3/7/2012	UO79A 3/30/2012	VP10B 10/24/2012	WF72G 2/28/2013	2005060439-03 6/29/2005
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (µg/L)																		
EPA Method 8270D / 8270D-SIM																		
Naphthalene	4900	0.13	1.0 U	1.0 U	1.0 U	NA	1.0 U	3.2	1.0 U	2.8	1.0 U	1.0 U	1.0 U	3.0 U	NA	1.0 U	1.0 U	0.13
2-Methylnaphthalene		NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	NA	1.0 U	1.0 U	NA
Acenaphthylene		0.10 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	NA	1.0 U	1.0 U	0.10 U
Acenaphthene		0.10 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	NA	1.0 U	1.0 U	0.10 U
Dibenzofuran		NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	NA	1.0 U	1.0 U	NA
Fluorene		0.10 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	NA	1.0 U	1.0 U	0.10 U
Pentachlorophenol	3	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.6 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	15 U	NA	10 U	10 U	NA
Phenanthrene		0.10 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	NA	1.0 U	1.0 U	0.10 U
Carbazole		NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.1 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	NA	1.0 U	NA	NA
Anthracene		0.10 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	NA	1.0 U	1.0 U	0.10 U
Fluoranthene		0.10 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	NA	1.0 U	1.0 U	0.10 U
Pyrene	2600	0.10 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	NA	1.0 U	1.0 U	0.10 U
Benzo(a)Anthracene		0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	1.0 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U
Chrysene		0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	1.0 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U
Benzo(b)Fluoranthene		0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	1.0 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	0.10 U
Benzo(k)Fluoranthene		0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	1.0 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	0.10 U
Benzo(a)Pyrene		0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	1.0 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U
Indeno(1,2,3-cd)Pyrene		0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	1.0 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U
Dibenz(a,h)Anthracene		0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	1.0 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U
Benzo(g,h,i)Perylene		0.10 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	NA	1.0 U	1.0 U	0.10 U
1-Methylnaphthalene		NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	NA	1.0 U	1.0 U	NA
Total Benzofluoranthenes											0.10 U	0.10 U	0.10 U	0.10 U	NA	0.20 U	0.20 U	
cPAH TEQ (b)	0.1 (c)	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
cPAH TEQ (b) (Using 1/2 RL for ND)	0.1 (c)	0.076	0.076	0.076	0.076	NA	0.076	0.076	0.76	0.083	0.071	0.071	0.071	0.071	NA	0.076	0.076	0.076
PENTACHLOROPHENOL (µg/L)																		
EPA Method 8041/8270C,D																		
Pentachlorophenol	3	0.10 U	0.25 U	0.25 U	1.8 (d)	0.25 U	0.25 U	0.25 U	NA	0.41	0.91	0.25 U	0.31 U	0.25 U	NA	0.25 U	0.48	10 U
PETROLEUM HYDROCARBONS																		
Method NWTPH-G (µg/L)																		
Gasoline	1,000	50 U	250 U	250 U	250 U	NA	250 U	250 U	NA	250 U	250 U	250 U	250 U	270	250 U	250 U	250 U	50 U
Method NWTPH-Dx (µg/L)																		
Diesel	500	100 U	250 U	250 U	250 U	NA	250 U	250 U	NA	250 U	100 U	110 U	120 U	130	100 U	100 U	100 U	106
Motor Oil	500	500 U	500 U	500 U	500 U	NA	500 U	500 U	NA	500 U	200 U	220 U	240 U	200 U	200 U	200 U	200 U	500 U
Creosote Oil	500	NA	NA	250 U	500 U	NA	250 U	250 U	NA	250 U	100 U	220 U	240 U	470	200 U	100 U	140	NA
BTEX (µg/L)																		
Method SW8021B/SW021B MOD																		
Benzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m, p-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**TABLE A-1
HISTORICAL ANALYTICAL RESULTS
GROUNDWATER COMPLIANCE MONITORING
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON**

	Cleanup Screening Levels for Groundwater (a)	PZ-19	PZ-19	PZ-19	PZ-19	PZ-19	PZ-19	PZ-19	PZ-19	PZ-19	PZ-19	PZ-19	PZ-19	PZ-19	PZ-19	PZ-19	LW-3	
		2006030294-04 3/22/2006	2006110239-04 11/14/2006	LS21E 10/2/2007	MO26B 3/20/2008	NH70E 7/28/2008	NM64B 8/28/2008	OH25C 1/9/2009	PK28E 8/11/2009	QG15C 1/18/2010	RS33H 10/19/2010	SO90H 3/25/2011	TI17B 8/9/2011	UL56G 3/8/2012	VP10C 10/24/2012	WF72C 2/28/2013	2005060439-05 6/28/2005	
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (µg/L)																		
EPA Method 8270D / 8270D-SIM																		
Naphthalene	4900	NA	0.10 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.8	1.0 U	3.8	0.21
2-Methylnaphthalene		NA	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA
Acenaphthylene		NA	0.10 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Acenaphthene		NA	0.10 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Dibenzofuran		NA	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA
Fluorene		NA	0.10 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Pentachlorophenol	3	NA	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	NA
Phenanthrene		NA	0.10 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Carbazole		NA	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
Anthracene		NA	0.10 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Fluoranthene		NA	0.10 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Pyrene	2600	NA	0.10 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Benzo(a)Anthracene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U
Chrysene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(b)Fluoranthene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	0.10 U
Benzo(k)Fluoranthene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	0.10 U
Benzo(a)Pyrene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Indeno(1,2,3-cd)Pyrene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Dibenz(a,h)Anthracene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(g,h,i)Perylene		NA	0.10 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
1-Methylnaphthalene		NA	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA
Total Benzofluoranthenes											0.10 U	0.10 U	0.11 U	0.10 U	0.20 U	0.20 U		
cPAH TEQ (b)	0.1 (c)	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cPAH TEQ (b) (Using 1/2 RL for ND)	0.1 (c)	0.076	0.076	0.076	0.076	0.076	NA	0.076	0.076	0.076	0.071	0.071	0.078	0.071	0.076	0.076	0.076	
PENTACHLOROPHENOL (µg/L)																		
EPA Method 8041/8270C,D																		
Pentachlorophenol	3	0.10 U	0.10 U	0.21 U	0.25 U	0.70 J (f)	0.25 U	0.25 U	0.26 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	10 U
PETROLEUM HYDROCARBONS																		
Method NWTPH-G (µg/L)																		
Gasoline	1,000	50 U	50 U	250 U	250 U	250 U	NA	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	1,750 (e)
Method NWTPH-Dx (µg/L)																		
Diesel	500	100 U	100 U	250 U	250 U	250 U	NA	250 U	250 U	250 U	100 U	110 U	100 U	100 U	100 U	100 U	100 U	100 U
Motor Oil	500	500 U	500 U	500 U	500 U	500 U	NA	500 U	250 U	500 U	200 U	230 U	200 U	200 U	200 U	200 U	200 U	500 U
Creosote Oil	500	NA	NA	NA	250 U	500 U	NA	250 U	500 U	250 U	100 U	230 U	200 U	200 U	200 U	200 U	140	NA
BTEX (µg/L)																		
Method SW8021B/SW021B MOD																		
Benzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m, p-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**TABLE A-1
HISTORICAL ANALYTICAL RESULTS
GROUNDWATER COMPLIANCE MONITORING
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON**

	Cleanup Screening Levels for Groundwater (a)	LW-3	LW-3	Dup of LW-3	LW-3	LW-3	LW-3	LW-3	LW-3	LW-3	LW-3	LW-3	LW-3	LW-3	LW-3	LW-3	LW-4R
		2006030316-02 3/23/2006	2006110200-02 11/13/2006	PZ30 2006110200-04 11/13/2006	LS10G 10/1/2007	MO07A 3/19/2008	NH70A 7/28/2008	OH11D 1/8/2009	PJ99A 8/10/2009	QF84E 1/14/2010	RS33C 10/18/2010	SO90M 03/24/2011	TH68D 08/08/2011	UL19D 03/07/2012	VP53H 10/26/2012	WF57H 02/27/2013	2005060439-02 6/29/2005
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (µg/L)																	
EPA Method 8270D / 8270D-SIM																	
Naphthalene	4900	NA	0.12	0.13	1.0 U	1.0 U	1.0 U	1.0 U	2.0 UJ	1.0 U	3.0 U	7.9	1.0 U	3.0 U	1.0 U	1.0 U	0.10 U
2-Methylnaphthalene		NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	2.0 UJ	1.0 U	3.0 U	1.0 U	1.0 U	3.0 U	1.0 U	1.0 U	NA
Acenaphthylene		NA	0.10 U	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 UJ	1.0 U	3.0 U	1.0 U	1.0 U	3.0 U	1.0 U	1.0 U	0.10 U
Acenaphthene		NA	0.10 U	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 UJ	1.0 U	3.0 U	1.0 U	1.0 U	3.0 U	1.0 U	1.0 U	0.10 U
Dibenzofuran		NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	2.0 UJ	1.0 U	3.0 U	1.0 U	1.0 U	3.0 U	1.0 U	1.0 U	NA
Fluorene		NA	0.10 U	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 UJ	1.0 U	3.0 U	1.0 U	1.0 U	3.0 U	1.0 U	1.0 U	0.10 U
Pentachlorophenol	3	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	10 UJ	5.0 U	15 U	5.0 U	5.0 U	15 U	10 U	10 U	NA
Phenanthrene		NA	0.10 U	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 UJ	1.0 U	3.0 U	1.0 U	1.0 U	3.0 U	1.0 U	1.0 U	0.10 U
Carbazole		NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	2.0 UJ	1.0 U	3.0 UJ	1.0 U	1.0 U	3.0 U	1.0 U	NA	NA
Anthracene		NA	0.10 U	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 UJ	1.0 U	3.0 U	1.0 U	1.0 U	3.0 U	1.0 U	1.0 U	0.10 U
Fluoranthene		NA	0.10 U	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 UJ	1.0 U	3.0 U	1.0 U	1.0 U	3.0 U	1.0 U	1.0 U	0.10 U
Pyrene	2600	NA	0.10 U	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 UJ	1.0 U	3.0 U	1.0 U	1.0 U	3.0 U	1.0 U	1.0 U	0.10 U
Benzo(a)Anthracene		0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chrysene		0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(b)Fluoranthene		0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	0.10 U
Benzo(k)Fluoranthene		0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	0.10 U
Benzo(a)Pyrene		0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Indeno(1,2,3-cd)Pyrene		0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Dibenz(a,h)Anthracene		0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(g,h,i)Perylene		NA	0.10 U	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 UJ	1.0 U	3.0 U	1.0 U	1.0 U	3.0 U	1.0 U	1.0 U	0.10 U
1-Methylnaphthalene		NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	2.0 UJ	1.0 U	3.0 U	1.0 U	1.0 U	3.0 U	1.0 U	1.0 U	NA
Total Benzofluoranthenes											0.10 U	1.0 U	0.10 U	0.10 U	0.20 U	0.20 U	
cPAH TEQ (b)	0.1 (c)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cPAH TEQ (b) (Using 1/2 RL for ND)	0.1 (c)	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.071	0.71 U	0.071	0.071	0.076	0.076	0.076
PENTACHLOROPHENOL (µg/L)																	
EPA Method 8041/8270C,D																	
Pentachlorophenol	3	0.10 U	0.10 U	0.10 U	3.6 J	0.25 U	0.57	0.25 U	0.28 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	10 U
PETROLEUM HYDROCARBONS																	
Method NWTPH-G (µg/L)																	
Gasoline	1,000	53	50 U	50 U	250 U	250 U	250 U	250 U	20,000	1,800	250 U	250 U	1,400	1,300	4,100	270	50 U
Method NWTPH-Dx (µg/L)																	
Diesel	500	100 U	100 U	100 U	250 U	250 U	250 U	250 U	770	1,200	100 U	120 U	170	620	410	1,600	100 U
Motor Oil	500	500 U	500 U	500 U	500 U	500 U	500 U	500 U	1,300	1,200	200 U	250 U	220 U	1,200	310	860	500 U
Creosote Oil	500	NA	NA	NA	NA	250 U	500 U	250 U	2,000	4,400	170	250 U	390	2,100	2,800	12,000	NA
BTEX (µg/L)																	
Method SW8021B/SW021B MOD																	
Benzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m, p-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**TABLE A-1
HISTORICAL ANALYTICAL RESULTS
GROUNDWATER COMPLIANCE MONITORING
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON**

	Cleanup Screening Levels for Groundwater (a)	LW-4R	LW-4R	LW-4R	LW-4R	LW-4R	LW-4R	LW-4R	LW-4R	LW-4R	LW-4R	LW-4R	LW-4R	LW-4R	LW-4R	MW-01S	MW-01S	
		2006030316-01 3/23/2006	2006110239-02 11/14/2006	LS10D 10/1/2007	MO07D 3/19/2008	NH70D 7/28/2008	OH11F 1/8/2009	PJ99D 8/10/2009	QF84L 1/15/2010	RS33N 10/19/2010	SO90A 03/24/2011	TH68E 08/08/2011	UL19A 03/07/2012	VP10F 10/24/2012	WF72F 02/28/2013	2005070010-01 6/30/2005	2006030261-04 3/21/2006	
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (µg/L)																		
EPA Method 8270D / 8270D-SIM																		
Naphthalene	4900	NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5,130	NA	
2-Methylnaphthalene		NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	
Acenaphthylene		NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	860	NA	
Acenaphthene		NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	NA	
Dibenzofuran		NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	
Fluorene		NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	380	NA	
Pentachlorophenol	3	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	NA	NA	
Phenanthrene		NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	23	NA	
Carbazole		NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	
Anthracene		NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17	NA	
Fluoranthene		NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	NA	
Pyrene	2600	NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	12	NA	
Benzo(a)Anthracene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	10 U	0.84	
Chrysene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	10 U	0.55	
Benzo(b)Fluoranthene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.11 U	NA	NA	NA	NA	NA	NA	10 U	0.98	
Benzo(k)Fluoranthene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.11 U	NA	NA	NA	NA	NA	NA	10 U	0.55	
Benzo(a)Pyrene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	10 U	0.74	
Indeno(1,2,3-cd)Pyrene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	10 U	0.22	
Dibenz(a,h)Anthracene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	10 U	0.10 U	
Benzo(g,h,i)Perylene		NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	NA	
1-Methylnaphthalene		NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	
Total Benzofluoranthenes										0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U			
cPAH TEQ (b)	0.1 (c)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	
cPAH TEQ (b) (Using 1/2 RL for ND)	0.1 (c)	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.083	0.071	0.071	0.071	0.071	0.076	0.076	0.076	1.01	
PENTACHLOROPHENOL (µg/L)																		
EPA Method 8041/8270C,D																		
Pentachlorophenol	3	0.10 U	0.10 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.42	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.85	7,470	3,440
PETROLEUM HYDROCARBONS																		
Method NWTPH-G (µg/L)																		
Gasoline	1,000	50 U	50 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	5,830	9,620
Method NWTPH-Dx (µg/L)																		
Diesel	500	100 U	100 U	250 U	250 U	250 U	250 U	250 U	250 U	100 U	130 U	110 U	100 U	100 U	100 U	100 U	100 U	100 U
Motor Oil	500	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	200 U	260 U	220 U	200 U	100 U	100 U	400	500 U	500 U
Creosote Oil	500	NA	NA	NA	250 U	500 U	250 U	250 U	250 U	100 U	260 U	220 U	200 U	200 U	200 U	200	13,000	6530
BTEX (µg/L)																		
Method SW8021B/SW021B MOD																		
Benzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m, p-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**TABLE A-1
HISTORICAL ANALYTICAL RESULTS
GROUNDWATER COMPLIANCE MONITORING
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON**

Cleanup Screening Levels for Groundwater (a)	Dup of MW-01S PZ30 2006030261-05 3/21/2006	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-01S	MW-02S	MW-02S
		2006110251-01 11/15/2006	LS10F 10/1/2007	MO07F 3/19/2008	NH92C 7/29/2008	OH25E 1/9/2009	PJ99F 8/10/2009	QF84H 1/15/2010	RS33M 10/19/2010	SO90N 03/25/2011	TI17G 08/09/2011	UL56H 03/08/2012	VP53D 10/25/2012	WF72D 02/28/2013	2005070010-05 7/1/2005	2006030294-01 3/22/2006	
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (µg/L)																	
EPA Method 8270D / 8270D-SIM																	
Naphthalene	4900	NA	3,120	11,000	7,100	11,000	9,000	9,100	5,000	9,100	5,400	6,900	5,000	4600	7,100	0.29	NA
2-Methylnaphthalene		NA	NA	920	1,000	810	1,000	890	900	750	740	680	1100	710	1000	NA	NA
Acenaphthylene		NA	33	8.9	10	6.6	9.7 J	2.0 U	100 U	100 U	1.0 U	1.0 U	6.8	10	100 U	0.10	NA
Acenaphthene		NA	398	210	290	200	290	250	270	190	200	190	340	220	320	0.92	NA
Dibenzofuran		NA	NA	73	130	98	110	99	120	100 U	64	79	79	110	140	NA	NA
Fluorene		NA	112	59	100	63	86	72	100 U	100 U	47	47	69	90	110	0.10 U	NA
Pentachlorophenol	3	NA	NA	8,300	4,100	2,000	1,600	3,900	4,400	3,500	4,200	4,200	3,200	4,300	4,700	NA	NA
Phenanthrene		NA	132	46	98	53	76	44	100 U	100 U	44	34	65	82	94 J	0.10 U	NA
Carbazole		NA	NA	120	120	69	80	86	100 U	100 UJ	57	24	53	52	NA	NA	NA
Anthracene		NA	96	14	26	14	17	40	100 U	100 U	12	10	18	21	100 U	1.19 E	NA
Fluoranthene		NA	172	6.3	30	11	13	14	100 U	100 U	7.8	2.0	19	18	100 U	0.28	NA
Pyrene	2600	NA	24	7.8	15	5.2	11	7.4	100 U	100 U	3.9	1.7	14	8.9	100 U	0.18	NA
Benzo(a)Anthracene		0.86	10 U	1.6	2.1	5.0 U	1.5 J	3.6 J	4.2	0.58	1.0 U	1.0	1.8	2.5	1.7	0.10 U	0.10 U
Chrysene		0.57	10 U	1.7	2.2	5.0 U	1.6 J	3.8 J	4.4	0.51	1.0 U	1.1	1.8	2.4	1.6	0.10 U	0.10 U
Benzo(b)Fluoranthene		1.05	10 U	0.88	1.1	5.0 U	1.0 U	1.0	1.3	NA	NA	NA	NA	NA	NA	0.10 U	0.10 U
Benzo(k)Fluoranthene		0.59	10 U	0.32	1.0 U	5.0 U	1.0 U	1.0	1.3	NA	NA	NA	NA	NA	NA	0.10 U	0.10 U
Benzo(a)Pyrene		0.80	10 U	0.53	1.0 U	5.0 U	1.0 U	1.3	1.6	0.18	1.0 U	0.33	0.65	0.76	1.0 U	0.10 U	0.10 U
Indeno(1,2,3-cd)Pyrene		0.24	10 U	0.12	1.0 U	5.0 U	1.0 U	0.34	0.35	0.10 U	1.0 U	0.12 U	0.14	0.11	1.0 U	0.10 U	0.10 U
Dibenz(a,h)Anthracene		0.10 U	10 U	0.10 U	1.0 U	5.0 U	1.0 U	0.20	0.17	0.10 U	1.0 U	0.12 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U
Benzo(g,h,i)Perylene		NA	10 U	1.0 U	10 U	5.0 U	10 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	100 U	0.10 U	NA
1-Methylnaphthalene		NA	NA	470	640	570	610	520	520	400	380	390	770	560	580	NA	NA
Total Benzofluoranthenes									0.35	1.0 U	0.76	1.4	1.5	2.0 U			
cPAH TEQ (b)	0.1 (c)	1.08	ND	0.839	0.342	ND	0.166	1.95	2.38	0.278	ND	0.517	1.0	1.2	0.186	ND	ND
cPAH TEQ (b) (Using 1/2 RL for ND)	0.1 (c)	1.08	0.076	0.84	0.992	3.78	0.866	1.95	2.38	0.288	0.71 U	0.529	1.0	1.2	0.886	0.076	0.076
PENTACHLOROPHENOL (µg/L)																	
EPA Method 8041/8270C,D																	
Pentachlorophenol	3	3,330	9,120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50 U	0.10 U
PETROLEUM HYDROCARBONS																	
Method NWTPH-G (µg/L)																	
Gasoline	1,000	9,580	28,000	52,000	16,000	40,000	41,000	14,000	23,000	36,000	57,000	55,000	26,000	34,000	38,000	50 U	50 U
Method NWTPH-Dx (µg/L)																	
Diesel	500	100 U	100 U	9,100	9,300	7,800	5,600	7,600	6,000	4,800	5,100	9,800	4,400	6,200	5,500	100 U	100 U
Motor Oil	500	500 U	500 U	2500 U	5000 U	5,000 U	5,000 U	2500 U	5000 U	2000 U	500	1000 U	200 U	5000 U	890	500 U	500 U
Creosote Oil	500	5,090 J	8,370	NA	48,000	46,000	48,000	22,000	24,000	35,000	24,000	31,000	18,000	44,000	40,000	NA	NA
BTEX (µg/L)																	
Method SW8021B/SW021B MOD																	
Benzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m, p-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**TABLE A-1
HISTORICAL ANALYTICAL RESULTS
GROUNDWATER COMPLIANCE MONITORING
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON**

	Cleanup Screening Levels for Groundwater (a)	MW-02S	MW-02S	MW-02S	MW-02S	MW-02S	Dup of MW-02S		MW-02S	MW-02S	MW-02S	MW-02S	MW-02S	MW-02S	MW-02S	MW-02S	MW-05S	Dup of MW-05S	
		2006110251-04 11/15/2006	LS21A 10/2/2007	MO26E 3/20/2008	NH70G 7/28/2008	OG76B 1/7/2009	MW30 OG76A 1/7/2009	OG76A 1/7/2009	PK28C 8/11/2009	QG15B 1/18/2010	RS33E 10/18/2010	SO90I 03/25/2011	TI17E 08/09/2011	UL56D 3/8/2012	VP10H 10/24/2012	WF72B 2/28/2013	2005070010-03 6/30/2005	PZ30 2005070010-04 6/30/2005	
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (µg/L)																			
EPA Method 8270D / 8270D-SIM																			
Naphthalene	4900	44.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.9	10.8 E	11.8 E
2-Methylnaphthalene		NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA
Acenaphthylene		0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.29	0.27	1.0 U
Acenaphthene		0.36	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1	5.25 E	5.13 E
Dibenzofuran		NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA
Fluorene		0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.26 E	2.26 E	1.0 U
Pentachlorophenol	3	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	NA	NA	NA
Phenanthrene		0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.45 E	1.76 E	1.0 U
Carbazole		NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA
Anthracene		1.65	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U	1.0	1.23 E	1.25 E	1.0 U
Fluoranthene		0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.71 E	1.75 E	1.0 U
Pyrene	2600	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.64 E	1.71 E	1.0 U
Benzo(a)Anthracene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.12 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.28	0.33	0.10 U
Chrysene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.12 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20	0.22	0.10 U
Benzo(b)Fluoranthene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(k)Fluoranthene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(a)Pyrene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.12 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Indeno(1,2,3-cd)Pyrene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.12 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Dibenz(a,h)Anthracene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.12 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(g,h,i)Perylene		0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U
1-Methylnaphthalene		NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA
Total Benzofluoranthenes										0.10 U	0.12 U	0.10 U	0.10 U	0.20 U	0.20 U				
cPAH TEQ (b)	0.1 (c)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.030	0.035	
cPAH TEQ (b) (Using 1/2 RL for ND)	0.1 (c)	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.071	0.085	0.071	0.071	0.076	0.076	0.039	0.044		
PENTACHLOROPHENOL (µg/L)																			
EPA Method 8041/8270C,D																			
Pentachlorophenol	3	0.63	0.21 U	0.25 U	1.0	0.25 U	0.25 U	0.26 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.10 U	0.50 U	
PETROLEUM HYDROCARBONS																			
Method NWTPH-G (µg/L)																			
Gasoline	1,000	99	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	480	250 U	250 U	250 U	250 U	50 U	50 U	
Method NWTPH-Dx (µg/L)																			
Diesel	500	100 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	100 U	120 U	130	100 U	100 U	100 U	100 U	100 U	100 U	
Motor Oil	500	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	200 U	240 U	990	200 U	200 U	210 U	210 U	500 U	500 U	
Creosote Oil	500	NA	NA	250 U	500 U	250 U	250 U	500 U	250 U	100 U	240 U	200 U	200 U	110	210	NA	NA	NA	
BTEX (µg/L)																			
Method SW8021B/SW021B MOD																			
Benzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Toluene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ethylbenzene	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
m, p-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
o-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

**TABLE A-1
HISTORICAL ANALYTICAL RESULTS
GROUNDWATER COMPLIANCE MONITORING
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON**

Cleanup Screening Levels for Groundwater (a)	MW-05S 2006030294-07 3/22/2006	MW-05S 2006110275-01 11/16/2006	MW-05S LS21C 10/2/2007	MW-05S MO26C 3/20/2008	Dup of MW-05S		Dup of MW-05S		Dup of MW-05S		Dup of MW-05S		Dup of MW-05S		Dup of MW-05S		
					PZ30 MO26A 3/20/2008	MW-05S NH92E 7/29/2008	PZ30 NH92F 7/29/2008	MW-05S OG76C 1/7/2009	MW-05S PK28H 8/11/2009	PZ30 PK28I 8/11/2009	MW-05S QF84B 1/14/2010	PZ30 QF84G 1/14/2010	MW-05S RS33I 10/19/2010	Duplicate RS33J 10/19/2010	MW-05S SO90C 03/25/2011	Duplicate SO90B 03/25/2011	
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (µg/L)																	
EPA Method 8270D / 8270D-SIM																	
Naphthalene	4900	NA	29.1	92	48	43	46	39	17	1.0 U	1.0 U	5.3	5.3	1.8 J	4.8 J	1.0 U	1.0 U
2-Methylnaphthalene		NA	NA	2.5	2.0	1.8	2.0	2.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acenaphthylene		NA	0.14	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acenaphthene		NA	5.91	9.2	8.8	7.6	8.3	7.3	6.6	4.3	4.4	13	11	9.0	8.3	6.0	6.1
Dibenzofuran		NA	NA	3.2	2.9	2.5	2.6	2.3	1.6	1.0 U	1.0 U	3.1	2.2	2.0	2.0	1.0 U	1.0 U
Fluorene		NA	1.00	2.8	2.6	2.2	2.0	1.7	1.0 U	1.0 U	1.0 U	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Pentachlorophenol	3	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene		NA	1.18	1.9	1.8	1.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbazole		NA	NA	1.9	1.1	1.0 U	1.0	1.0 U	1.2	1.0 U	1.0 U	1.9	1.3	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Anthracene		NA	1.02	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0	1.2	1.3	1.4	1.5	1.0 U	1.0 U	1.2	1.2
Fluoranthene		NA	0.90	1.0 U	1.1	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Pyrene	2600	NA	0.41	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(a)Anthracene		0.10 U	0.18	0.10 U	0.10	0.10	0.11	0.10 U	0.13	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.12 U	0.12 U
Chrysene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.13	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.12 U	0.12 U
Benzo(b)Fluoranthene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA
Benzo(k)Fluoranthene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.10 U	0.10 U	NA	NA	NA	NA
Benzo(a)Pyrene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.12	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.12 U	0.12 U
Indeno(1,2,3-cd)Pyrene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.12 U	0.12 U
Dibenz(a,h)Anthracene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.12 U	0.12 U
Benzo(g,h,i)Perylene		NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1-Methylnaphthalene		NA	NA	5.2	3.9	3.4	4.0	3.6	1.7	1.0 U	1.0 U	2.6 J	1.5 J	1.0 U	1.0 U	1.0 U	1.0 U
Total Benzofluoranthenes														0.10 U	0.10 U	0.12 U	0.12 U
cPAH TEQ (b)	0.1 (c)	ND	0.018	ND	0.010	0.010	0.011	ND	0.134	ND	ND	ND	ND	ND	ND	ND	ND
cPAH TEQ (b) (Using 1/2 RL for ND)	0.1 (c)	0.076	0.089	0.076	0.081	0.081	0.082	0.076	0.154	0.076	0.076	0.076	0.076	0.071	0.071	0.085	0.085
PENTACHLOROPHENOL (µg/L)																	
EPA Method 8041/8270C,D																	
Pentachlorophenol	3	0.10 U	0.10 U	0.25 U	0.25 U	0.25 U	0.25 UJ	0.25 UJ	0.25 U	0.25 U	0.27 U	0.25 U	0.25 U	0.25 U	0.27 U	0.25 U	0.25 U
PETROLEUM HYDROCARBONS																	
Method NWTPH-G (µg/L)																	
Gasoline	1,000	50 U	50 U	530	320	250 U	270	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
Method NWTPH-Dx (µg/L)																	
Diesel	500	430	100 U	250 U	250 U	250 U	250 U	NA	250 U	250 U	250 U	250 U	250 U	100 U	100 U	120 U	120 U
Motor Oil	500	500 U	500 U	500 U	500 U	500 U	500 U	NA	500 U	250 U	250 U	500 U	500 U	200 U	200 U	250 U	230 U
Creosote Oil	500	NA	NA	NA	410	390	500 U	NA	250 U	500 U	500 U	250 U	250 U	100 U	100 U	250 U	230 U
BTEX (µg/L)																	
Method SW8021B/SW021B MOD																	
Benzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m, p-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**TABLE A-1
HISTORICAL ANALYTICAL RESULTS
GROUNDWATER COMPLIANCE MONITORING
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON**

	Cleanup Screening Levels for Groundwater (a)	Dup of MW-05S		Dup of MW-05S		Dup of MW-05S		Dup of MW-05S		MW-01D	MW-01D	MW-01D	MW-01D	MW-01D	MW-01D	MW-01D	MW-01D
		MW-05S T117C 08/09/2011	Duplicate T117A 08/09/2011	MW-05S UL56E 03/08/2012	PZ-30 UL56F 03/08/2012	MW-05S VP10E 10/24/2012	PZ-30 VP10D 10/24/2012	MW-05S WF57E 2/27/2013	PZ-30 WF57F 02/27/2013								
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (µg/L)																	
EPA Method 8270D / 8270D-SIM																	
Naphthalene	4900	1.0 U	1.0 U	1.1	2.0	1.0 U	1.0 U	1.6	1.6	91	NA	1.24	1.0 U	1.0 U	2.2	0.7 J	1.8
2-Methylnaphthalene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acenaphthylene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U	NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acenaphthene		7.6	8.1	7.5	8.2	8.2	10	10	11	58	NA	0.48	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibenzofuran		1.0 U	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Fluorene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	30	NA	0.31	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Pentachlorophenol	3	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U	10 U	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	56	NA	1.42	1.0 U	1.0 U	1.0 U	0.6 J	1.0 U
Carbazole		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Anthracene		1.1	1.3	1.0 U	1.0 U	1.0	1.2	1.0 U	1.0 U	8.7	NA	0.39	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Fluoranthene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.4	NA	0.89	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Pyrene	2600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	7.6	NA	0.39	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(a)Anthracene		0.12 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.0	0.10 U	0.10 U	0.11	0.10 U	0.10 U	0.10 U	0.10 U
Chrysene		0.12 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.2	0.10 U	0.10 U	0.11	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(b)Fluoranthene		NA	NA	NA	NA	NA	NA	NA	NA	0.3	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(k)Fluoranthene		NA	NA	NA	NA	NA	NA	NA	NA	0.3	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(a)Pyrene		0.12 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.2 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Indeno(1,2,3-cd)Pyrene		0.12 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.2 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Dibenz(a,h)Anthracene		0.12 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.2 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(g,h,i)Perylene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U	NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1-Methylnaphthalene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Benzofluoranthenes		0.12 U	0.11 U	0.10 U	0.10 U	0.20 U	0.20 U	0.20 U	0.20 U								
cPAH TEQ (b)	0.1 (c)	ND	ND	ND	ND	ND	ND	ND	ND	0.172	ND	ND	0.0121	ND	ND	ND	ND
cPAH TEQ (b) (Using 1/2 RL for ND)	0.1 (c)	0.085	0.078	0.071	0.071	0.076	0.076	0.076	0.076	0.292	0.076	0.076	0.082	0.076	0.076	0.076	0.076
PENTACHLOROPHENOL (µg/L)																	
EPA Method 8041/8270C,D																	
Pentachlorophenol	3	0.28 U	0.28 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	18	0.10 U	0.10 U	0.2 UJ	0.25 U	0.25 UJ	0.25 U	0.25 U
PETROLEUM HYDROCARBONS																	
Method NWTPH-G (µg/L)																	
Gasoline	1,000	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	NA	50 U	50 U	250 U	250 U	250 U	250 U	250 U
Method NWTPH-Dx (µg/L)																	
Diesel	500	100 U	110	100 U	100 U	100 U	100 U	100 U	100 U	2,500	100 U	100 U	250 U	250 U	250 U	250 U	250 U
Motor Oil	500	200 UJ	500 J	200 U	200 U	200 U	200 U	200 U	200 U	2,800	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Creosote Oil	500	200 U	200 U	200 U	200 U	170	170	230	210	NA	106	NA	NA	250 U	500 U	250 U	250 U
BTEX (µg/L)																	
Method SW8021B/SW021B MOD																	
Benzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m, p-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**TABLE A-1
HISTORICAL ANALYTICAL RESULTS
GROUNDWATER COMPLIANCE MONITORING
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON**

	Cleanup Screening Levels for Groundwater (a)	MW-01D	MW-01D	MW-01D	MW-01D	MW-01D	MW-01D	MW-01D	MW-02D	MW-02D	MW-02D	MW-02D	Dup of MW-02D		MW-02D	MW-02D	MW-02D	MW-02D		
		QF84I 1/15/2010	RS33O 10/19/2010	SO90J 03/25/2011	T117F 08/09/2011	UL56I 03/08/2012	VP53C 10/25/2012	WF72E 02/28/2013	10/7/1998	2006030294-02 3/22/2006	2006110251-05 11/15/2006	LS21B 10/2/2007	PZ30 10/2/2007	MO26I 3/19/2008	NH92H 7/29/2008	OH25A 1/9/2009	PK28D 8/11/2009			
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (µg/L)																				
EPA Method 8270D / 8270D-SIM																				
Naphthalene	4900	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.8	600	NA	143	680 J	500 J	380	1.1 U	210	230			
2-Methylnaphthalene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	120	85	94	1.1 U	26	38			
Acenaphthylene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0	NA	0.95	1.6	1.3	1.2	1.1 U	1.0 U	1.0 U			
Acenaphthene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	54	NA	96	86 J	67 J	70	1.1 U	26	35			
Dibenzofuran		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	35	26	30	1.1 U	8.1	12			
Fluorene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	18	NA	40	37 J	28 J	30	1.1 U	9.3	12			
Pentachlorophenol	3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	NA	NA	NA	5.0 U	5.0 U	5.0 U	5.5 U	5.0 U	5.0 U			
Phenanthrene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	7.1	NA	27	23 J	18 J	22	1.1 U	6.0	7.2			
Carbazole		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	23	16	21	1.5	8.0	9.0			
Anthracene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	0.50	1.0 U	1.0 U	1.0	1.1 U	1.0 U	1.0 U			
Fluoranthene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0	NA	0.10 U	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U			
Pyrene	2600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7	NA	0.10 U	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U			
Benzo(a)Anthracene		0.11 U	0.10 U	0.10 U	0.12 U	0.10 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U		
Chrysene		0.11 U	0.10 U	0.10 U	0.12 U	0.10 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U		
Benzo(b)Fluoranthene		0.11 U	NA	NA	NA	NA	NA	NA	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U		
Benzo(k)Fluoranthene		0.11 U	NA	NA	NA	NA	NA	NA	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U		
Benzo(a)Pyrene		0.11 U	0.10 U	0.10 U	0.12 U	0.10 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U		
Indeno(1,2,3-cd)Pyrene		0.11 U	0.10 U	0.10 U	0.12 U	0.10 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U		
Dibenz(a,h)Anthracene		0.11 U	0.10 U	0.10 U	0.12 U	0.10 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U		
Benzo(g,h,i)Perylene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	0.10 U	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U			
1-Methylnaphthalene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	77	68	66	1.1 U	22	32			
Total Benzofluoranthenes			0.10 U	0.10 U	0.12 U	0.10 U	0.20 U	0.20 U												
cPAH TEQ (b)	0.1 (c)	ND	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	ND	ND		
cPAH TEQ (b) (Using 1/2 RL for ND)	0.1 (c)	0.083	0.071	0.071	0.085	0.071	0.076	0.076	ND	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076		
PENTACHLOROPHENOL (µg/L)																				
EPA Method 8041/8270C,D																				
Pentachlorophenol	3	0.25 U	0.25 U	0.25 U	0.29 U	0.85	0.25 U	2.0	5.0 U	0.10 U	10 U	0.23 U	0.25 U	0.25 U	0.25 U	0.25 U	0.26 U			
PETROLEUM HYDROCARBONS																				
Method NWTPH-G (µg/L)																				
Gasoline	1,000	250 U	250 U	250 U	250 U	250 U	250 U	250 U	NA	495	830	3,100	2,900	1,700	980	760	790			
Method NWTPH-Dx (µg/L)																				
Diesel	500	250 U	100 U	100 U	100 U	100 U	100 U	100 U	1,800	100 U	100 U	290	280	540	250 U	250 U	250 U			
Motor Oil	500	500 U	200 U	200 U	200 U	200 U	200 U	200 U	5,200	500 U	500 U	500 U	500 U	500 U	500 U	500 U	250 U			
Creosote Oil	500	250 U	100 U	200 U	200 U	200 U	100 U	160	NA	790	1,710	NA	NA	4,200	500 U	990	600			
BTEX (µg/L)																				
Method SW8021B/SW021B MOD																				
Benzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Toluene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Ethylbenzene	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
m, p-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
o-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		

**TABLE A-1
HISTORICAL ANALYTICAL RESULTS
GROUNDWATER COMPLIANCE MONITORING
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON**

	Cleanup Screening Levels for Groundwater (a)	MW-02D	MW-02D	MW-02D	MW-02D	MW-02D	MW-02D	MW-02D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D	MW-05D
		QG15A 1/18/2010	RS33F 10/18/2010	SO90G 03/25/2011	TI17D 08/09/2011	UL56A 03/08/2012	VP10A 10/24/2012	WF72A 02/28/2013	10/7/1998	2006030294-06 3/22/2006	2006110275-02 11/16/2006	LS21D 10/2/2007	MO26F 3/20/2008	NH92G 7/29/2008	OH25B 1/9/2009	PK28G 8/11/2009	QF84A 1/14/2010	RS33K 10/19/2010
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (µg/L)																		
EPA Method 8270D / 8270D-SIM																		
Naphthalene	4900	180	1.0 U	76	110	19	43	1.0	4.0	NA	21.0	28	27	2.2	1.2	3.4	1.0 U	1.0 U
2-Methylnaphthalene		36	1.0 U	13	9.4	1.5	11	1.0 U	NA	NA	3.0	3.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acenaphthylene		1.0 U	1.9	1.0 U	1.0 U	1.0 U	1.1	1.0 U	4.1	NA	0.10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acenaphthene		34	8.8	21	18	9.3	26	7.2	15	NA	6.39	5.8	6.7	3.9	0.6 J	3.7	1.0 U	4.2
Dibenzofuran		14	3.0	7.9	6.1	3.2	11	2.8	NA	NA	2.2	2.5	1.4	1.0 U	1.1	1.0 U	1.0 U	1.0 U
Fluorene		15	11	8.4	5.8	3.8	13	4.7	5.0	NA	2.60	1.8	2.3	1.0	1.0 U	1.2	1.0 U	1.0 U
Pentachlorophenol	3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene		9.1	5.0	5.1	3.9	2.3	8.3	2.2	8.5	NA	0.89	1.1	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbazole		9.1	8.3 J	5.7	4.9	1.4	9.0	NA	NA	NA	1.5	1.6	1.4	1.0 U	1.5	1.0 U	1.6 J	
Anthracene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	0.25	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Fluoranthene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.5	NA	0.60	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Pyrene	2600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	7.0	NA	0.27	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(a)Anthracene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chrysene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(b)Fluoranthene		0.10 U	NA	NA	NA	NA	NA	NA	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA
Benzo(k)Fluoranthene		0.10 U	NA	NA	NA	NA	NA	NA	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	NA
Benzo(a)Pyrene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Indeno(1,2,3-cd)Pyrene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Dibenz(a,h)Anthracene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(g,h,i)Perylene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1-Methylnaphthalene		30	1.0 U	15	13	5.1	19	1.9	NA	NA	2.8	3.1	1.0 U	1.0 U	1.0	1.0 U	1.0 U	
Total Benzofluoranthenes			0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U										0.10 U
cPAH TEQ (b)	0.1 (c)	ND	ND	ND	ND	ND	ND	ND	4.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
cPAH TEQ (b) (Using 1/2 RL for ND)	0.1 (c)	0.076	0.071	0.071	0.071	0.071	0.076	0.076	ND	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.071
PENTACHLOROPHENOL (µg/L)																		
EPA Method 8041/8270C,D																		
Pentachlorophenol	3	0.25 U	0.25 U	0.25 U	0.26 U	0.25 U	0.25 U	0.25 U	5.0 U	0.10 U	0.10 U	0.22 U	0.25 U	0.25 UJ	0.25 U	0.25 U	0.25 U	0.26 U
PETROLEUM HYDROCARBONS																		
Method NWTPH-G (µg/L)																		
Gasoline	1,000	600	420	620	250 U	250 U	510	250 U	NA	50 U	50 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
Method NWTPH-Dx (µg/L)																		
Diesel	500	250 U	100 U	120 U	140	100 U	130	100 U	440	100 U	100 U	250 U	250 U	250 U	250 U	250 U	250 U	100 U
Motor Oil	500	500 U	200 U	230 U	200 U	210	200 U	200 U	520	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	200 U
Creosote Oil	500	700	270	280	440	200 U	910	270	NA	NA	NA	370	500 U	250 U	500 U	250 U	100 U	
BTEX (µg/L)																		
Method SW8021B/SW021B MOD																		
Benzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m, p-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**TABLE A-1
HISTORICAL ANALYTICAL RESULTS
GROUNDWATER COMPLIANCE MONITORING
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON**

	Cleanup Screening Levels for Groundwater (a)	MW-05D	MW05D	MW-05D	MW-05D	MW-05D	CW-13	CW-13	CW-13	CW-13	CW-13	CW-13	CW-13	CW-13	CW-13	CW-13	CW-13	CW-13	
		SO90D 03/25/2011	TI17I 08/09/2011	UL56C 03/08/2012	VP53E 10/25/2012	WF57D 2/27/2013	2006110275-04 11/16/2006	LS22A 10/2/2007	MO26D 3/20/2008	NH70F 7/28/2008	PK28F 8/11/2009	QF84D 1/14/2010	RS33G 10/19/2010	SO90K 03/25/2011	TI17H 08/09/2011	UL56B 03/08/2012	VP53B 10/25/2012	WF57C 2/27/2013	
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (µg/L)																			
EPA Method 8270D / 8270D-SIM																			
Naphthalene	4900	1.0 U	2.1	1.0 U	1.3	2.9	1.54	8.7	11	30	4.8	1.0 U	1.0 U	1.0 U	5.2	1.0 U	1.0 U	1.0 U	
2-Methylnaphthalene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Acenaphthylene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.48	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Acenaphthene		1.3	2.6	3.3	5.6	4.0	50.0	64	44	51	25	1.0 U	5.4	1.0 U	4.3	1.0 U	5.2	1.0 U	
Dibenzofuran		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	19	15	18	7.6	1.0 U	1.5	1.0 U	1.0 U	1.0 U	2.5	1.0 U	
Fluorene		1.0 U	1.2	1.0 U	1.3	1.6	20.7	25	16	21	8.7	1.0 U	2.4	1.0 U	1.0 U	1.0 U	2.0	1.0 U	
Pentachlorophenol	3	5.0 U	5.0 U	5.0 U	10 U	10 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	
Phenanthrene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	34.5	31	14	21	8.2	1.0 U	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Carbazole		1.0 U	1.0 U	1.1	2.2	NA	NA	14	11	13	3.0	1.0 U	1.0 UJ	1.0 U	1.4	1.0 U	1.0 U	NA	
Anthracene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.38	3.3	1.8	2.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Fluoranthene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.47	5.9	1.8	3.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Pyrene	2600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.44	2.2	1.0 U	1.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Benzo(a)Anthracene		0.12 U	0.11 U	0.10 U	0.10 U	0.10 U	0.37	0.24	0.14	0.13	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
Chrysene		0.12 U	0.11 U	0.10 U	0.10 U	0.10 U	0.25	0.24	0.10	0.12	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
Benzo(b)Fluoranthene		NA	NA	NA	NA	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	
Benzo(k)Fluoranthene		NA	NA	NA	NA	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	NA	NA	NA	NA	NA	NA	
Benzo(a)Pyrene		0.12 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
Indeno(1,2,3-cd)Pyrene		0.12 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
Dibenz(a,h)Anthracene		0.12 U	0.11 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
Benzo(g,h,i)Perylene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1-Methylnaphthalene		1.0 U	1.0 U	1.0 U	1.0 U	1.4	NA	34	27	34	12	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Total Benzofluoranthenes		0.12 U	0.11 U	0.10 U	0.20 U	0.20 U							0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	
cPAH TEQ (b)	0.1 (c)	ND	ND	ND	ND	ND	0.040	0.0264	0.015	0.014	ND	ND	ND	ND	ND	ND	ND	ND	
cPAH TEQ (b) (Using 1/2 RL for ND)	0.1 (c)	0.085	0.078	0.071	0.076	0.076	0.110	0.096	0.085	0.084	0.076	0.076	0.071	0.071	0.071	0.071	0.076	0.076	
PENTACHLOROPHENOL (µg/L)																			
EPA Method 8041/8270C,D																			
Pentachlorophenol	3	0.25 U	0.25 U	0.25 U	2.2	0.25 U	0.10 U	0.22 U	0.25 U	2.9	0.26 U	0.25 U	0.25 U	0.25 U	1.0	0.25 U	0.25 U	0.25 U	
PETROLEUM HYDROCARBONS																			
Method NWTPH-G (µg/L)																			
Gasoline	1,000	250 U	250 U	250 U	250 U	250 U	83	750	630	1,000	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	
Method NWTPH-Dx (µg/L)																			
Diesel	500	110 U	100 U	100 U	100 U	100 U	100 U	250 U	290	270	250 U	250 U	100 U	100 U	100 U	100 U	100 U	100 U	
Motor Oil	500	220 U	200 U	200 U	200 U	200 U	500 U	500 U	500 U	500 U	250 U	500 U	200 U	200 U	200 U	200 U	200 U	200 U	
Creosote Oil	500	220 U	200 U	200 U	100 U	210	471	NA	1,100	960	500 U	250 U	100 U	200 U	200 U	200 U	100 U	110	
BTEX (µg/L)																			
Method SW8021B/SW021B MOD																			
Benzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Toluene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ethylbenzene	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
m, p-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
o-Xylene	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

U = Indicates the compound was undetected at the given reporting limit.
 UJ = The analyte was not detected in the sample; the reported sample detection limit is an estimate.
 J = Indicates the analyte was positively identified; the associated value is approximate.
 E = The reported concentration is an estimate; the result exceeded the instrument calibration range.
 NA = Not analyzed.
 ND = Not Detected.
 Bold indicates detected compound.
 Box indicates exceedance of screening level.

(a) Groundwater screening levels are MTCA Method B for marine surface water for cPAHs and PCP; MTCA Method A for TPH-G/TPH-Dx.
 (b) TEQ = toxicity equivalency factor as described in WAC 173-340-708 (8).
 (c) cPAH cleanup screening levels based on practical quantitation limit (PQL) for individual cPAHs.
 (d) PCP results on 7/28/08 for PZ-18 and PZ-19 were not consistent with historical results. Confirmation verification samples were collected on 8/28/08. Both sets of data are presented in this table.
 (e) The gasoline-range hydrocarbon result for this sample consisted of a solitary peak, identified by GCMS as toluene.
 (f) The sample contains gasoline-range hydrocarbons which do not appear to be automotive gasoline.

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
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Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
1	11/8/2006	PZ-13	4.67	19.50	14.83	--	
	11/8/2006	PZ-12	4.02	19.00	14.98	15.50	No
	12/31/2006	PZ-13	5.56	19.50	13.94	--	
	12/31/2006	PZ-12	3.91	19.00	15.09	15.50	No
	3/2/2007	PZ-13	6.06	19.50	13.44	--	
	3/2/2007	PZ-12	4.04	19.00	14.96	15.50	No
	3/31/2007	PZ-13	6.39	19.50	13.11	--	
	3/31/2007	PZ-12	4.03	19.00	14.97	15.50	No
	4/23/2007	PZ-13	6.58	19.50	12.92	--	
	4/23/2007	PZ-12	4.42	19.00	14.58	15.50	No
	5/28/2007	PZ-13	7.36	19.50	12.14	--	
	5/28/2007	PZ-12	4.88	19.00	14.12	15.50	No
	6/30/2007	PZ-13	7.33	19.50	12.17	--	
	6/30/2007	PZ-12	5.11	19.00	13.89	15.50	No
	8/1/2007	PZ-13	7.19	19.50	12.31	--	
	8/1/2007	PZ-12	5.10	19.00	13.90	15.50	No
	9/29/2007	PZ-13	7.32	19.50	12.18	--	
	9/29/2007	PZ-12	5.63	19.00	13.37	15.50	No
	11/22/2007	PZ-13	6.91	19.50	12.59	--	
	11/22/2007	PZ-12	5.27	19.00	13.73	15.50	No
	1/26/2008	PZ-13	5.99	19.50	13.51	--	
	1/26/2008	PZ-12	3.93	19.00	15.07	15.50	No
	2/28/2008	PZ-13	6.44	19.50	13.06	--	
	2/28/2008	PZ-12	3.69	19.00	15.31	15.50	No
	3/19/2008	PZ-13	6.71	19.50	12.79	--	
	3/19/2008	PZ-12	3.84	19.00	15.16	15.50	No
	4/28/2008	PZ-13	7.19	19.50	12.31	--	
	4/28/2008	PZ-12	4.00	19.00	15.00	15.50	No
	5/31/2008	PZ-13	7.39	19.50	12.11	--	
	5/31/2008	PZ-12	4.43	19.00	14.57	15.50	No
	6/30/2008	PZ-13	7.26	19.50	12.24	--	
	6/30/2008	PZ-12	4.58	19.00	14.42	15.50	No
	7/12/2008	PZ-13	7.36	19.50	12.14	--	
	7/12/2008	PZ-12	4.72	19.00	14.28	15.50	No

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	8/28/2008	PZ-13	7.34	19.50	12.16	--	
	8/28/2008	PZ-12	5.23	19.00	13.77	15.50	No
	9/20/2008	PZ-13	7.32	19.50	12.18	--	
	9/20/2008	PZ-12	5.39	19.00	13.61	15.50	No
	10/12/2008	PZ-13	8.36	19.50	11.14	--	
	10/12/2008	PZ-12	5.51	19.00	13.49	15.50	No
	11/30/2008	PZ-13	6.42	19.50	13.08	--	
	11/30/2008	PZ-12	4.83	19.00	14.17	15.50	No
	12/31/2008	PZ-13	6.42	19.50	13.08	--	
	12/31/2008	PZ-12	4.83	19.00	14.17	15.50	No
	1/31/2009	PZ-13	6.57	19.50	12.93	--	
	1/31/2009	PZ-12	4.39	19.00	14.61	15.50	No
	2/23/2009	PZ-13	6.95	19.50	12.55	--	
	2/23/2009	PZ-12	4.59	19.00	14.41	15.50	No
	3/29/2009	PZ-13	6.68	19.50	12.82	--	
	3/29/2009	PZ-12	4.28	19.00	14.72	15.50	No
	4/18/2009	PZ-13	7.61	19.50	11.89	--	
	4/18/2009	PZ-12	4.31	19.00	14.69	15.50	No
	5/16/2009	PZ-13	6.62	19.50	12.88	--	
	5/16/2009	PZ-12	4.10	19.00	14.90	15.50	No
	6/21/2009	PZ-13	7.03	19.50	12.47	--	
	6/21/2009	PZ-12	4.58	19.00	14.42	15.50	No
	7/20/2009	PZ-13	7.09	19.50	12.41	--	
	7/20/2009	PZ-12	4.94	19.00	14.06	15.50	No
	8/10/2009	PZ-13	7.31	19.50	12.19	--	
	8/10/2009	PZ-12	5.18	19.00	13.82	15.50	No
	9/7/2009	PZ-13	7.91	19.50	11.59	--	
	9/7/2009	PZ-12	5.33	19.00	13.67	15.50	No
	10/10/2009	PZ-13	7.45	19.50	12.05	--	
	10/10/2009	PZ-12	5.85	19.00	13.15	15.50	No
	11/28/2009	PZ-13	5.99	19.50	13.51	--	
	11/28/2009	PZ-12	4.74	19.00	14.26	15.50	No
	12/31/2009	PZ-13	6.06	19.50	13.44	--	
	12/31/2009	PZ-12	4.70	19.00	14.30	15.50	No

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	1/14/2010	PZ-13	5.20	19.50	14.30	--	
	1/14/2010	PZ-12	4.16	19.00	14.84	15.50	No
	2/21/2010	PZ-13	6.04	19.50	13.46	--	
	2/21/2010	PZ-12	4.01	19.00	14.99	15.50	No
	3/17/2010	PZ-13	6.40	19.50	13.10	--	
	3/17/2010	PZ-12	3.98	19.00	15.02	15.50	No
	4/25/2010	PZ-13	6.65	19.50	12.85	--	
	4/25/2010	PZ-12	4.06	19.00	14.94	15.50	No
	5/16/2010	PZ-13	6.99	19.50	12.51	--	
	5/16/2010	PZ-12	4.15	19.00	14.85	15.50	No
	6/26/2010	PZ-13	6.83	19.50	12.67	--	
	6/26/2010	PZ-12	4.47	19.00	14.53	15.50	No
	7/23/2010	PZ-13	7.33	19.50	12.17	--	
	7/23/2010	PZ-12	4.91	19.00	14.09	15.50	No
	8/30/2010	PZ-13	7.49	19.50	12.01	--	
	8/30/2010	PZ-12	5.17	19.00	13.83	15.50	No
	9/30/2010	PZ-13	6.98	19.50	12.52	--	
	9/30/2010	PZ-12	5.17	19.00	13.83	15.50	No
	10/18/2010	PZ-13	7.11	19.50	12.39	--	
	10/18/2010	PZ-12	4.91	19.00	14.09	15.50	No
	11/29/2010	PZ-13	6.23	19.50	13.27	--	
	11/29/2010	PZ-12	4.40	19.00	14.60	15.50	No
	12/25/2010	PZ-13	5.21	19.50	14.29	--	
	12/25/2010	PZ-12	4.08	19.00	14.92	15.50	No
	1/29/2011	PZ-13	6.01	19.50	13.49	--	
	1/29/2011	PZ-12	4.18	19.00	14.82	15.50	No
	2/20/2011	PZ-13	6.13	19.50	13.37	--	
	2/20/2011	PZ-12	4.28	19.00	14.72	15.50	No
	3/24/2011	PZ-13	5.23	19.50	14.27	--	
	3/24/2011	PZ-12	3.72	19.00	15.28	15.50	No
	4/23/2011	PZ-13	6.18	19.50	13.32	--	
	4/23/2011	PZ-12	3.84	19.00	15.16	15.50	No
	5/30/2011	PZ-13	6.75	19.50	12.75	--	
	5/30/2011	PZ-12	4.25	19.00	14.75	15.50	No

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	6/26/2011	PZ-13	7.21	19.50	12.29	--	
	6/26/2011	PZ-12	4.78	19.00	14.22	15.50	No
	7/30/2011	PZ-13	7.26	19.50	12.24	--	
	7/30/2011	PZ-12	5.00	19.00	14.00	15.50	No
	8/8/2011	PZ-13	7.17	19.50	12.33	--	
	8/8/2011	PZ-12	4.96	19.00	14.04	15.50	No
	9/24/2011	PZ-13	7.61	19.50	11.89	--	
	9/24/2011	PZ-12	5.31	19.00	13.69	15.50	No
	10/29/2011	PZ-13	6.85	19.50	12.65	--	
	10/29/2011	PZ-12	5.45	19.00	13.55	15.50	No
	11/26/2011	PZ-13	4.98	19.50	14.52	--	
	11/26/2011	PZ-12	4.05	19.00	14.95	15.50	No
	12/26/2011	PZ-13	6.87	19.50	12.63	--	
	12/26/2011	PZ-12	5.27	19.00	13.73	15.50	No
	1/28/2012	PZ-13	4.60	19.50	14.90	--	
	1/28/2012	PZ-12	3.55	19.00	15.45	15.50	No
	2/26/2012	PZ-13	5.77	19.50	13.73	--	
	2/26/2012	PZ-12	3.95	19.00	15.05	15.50	No
	3/7/2012	PZ-13	6.64	19.50	12.86	--	
	3/7/2012	PZ-12	4.20	19.00	14.80	15.50	No
	4/21/2012	PZ-13	6.15	19.50	13.35	--	
	4/21/2012	PZ-12	4.09	19.00	14.91	15.50	No
	5/19/2012	PZ-13	6.83	19.50	12.67	--	
	5/19/2012	PZ-12	4.32	19.00	14.68	15.50	No
	6/30/2012	PZ-13	6.89	19.50	12.61	--	
	6/30/2012	PZ-12	4.12	19.00	14.88	15.50	No
	7/27/2012	PZ-13	7.15	19.50	12.35	--	
	7/27/2012	PZ-12	4.05	19.00	14.95	15.50	No
	8/12/2012	PZ-13	7.29	19.50	12.21	--	
	8/12/2012	PZ-12	3.93	19.00	15.07	15.50	No
	9/30/2012	PZ-13	7.22	19.50	12.28	--	
	9/30/2012	PZ-12	3.97	19.00	15.03	15.50	No
	10/24/2012	PZ-13	6.81	19.50	12.69	--	
	10/24/2012	PZ-12	4.13	19.00	14.87	15.50	No

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	11/24/2012	PZ-13	5.04	19.50	14.46	--	
	11/24/2012	PZ-12	3.52	19.00	15.48	15.50	No
	12/30/2012	PZ-13	5.15	19.50	14.35	--	
	12/30/2012	PZ-12	3.56	19.00	15.44	15.50	No
	1/25/2013	PZ-13	6.57	19.50	12.93	--	
	1/25/2013	PZ-12	4.11	19.00	14.89	15.50	No
	2/9/2013	PZ-13	6.68	19.50	12.82	--	
	2/9/2013	PZ-12	4.38	19.00	14.62	15.50	No
	3/31/2013	PZ-13	6.85	19.50	12.65	--	
	3/31/2013	PZ-12	--	19.00	--	15.50	--
2	11/8/2006	PZ-17	7.58	20.48	12.90	--	
	11/8/2006	LW-3	5.62	20.36	14.74	15.50	No
	12/31/2006	PZ-17	6.98	20.48	13.50	--	
	12/31/2006	LW-3	4.97	20.36	15.39	15.50	No
	3/2/2007	PZ-17	6.94	20.48	13.54	--	
	3/2/2007	LW-3	4.97	20.36	15.39	15.50	No
	3/31/2007	PZ-17	6.87	20.48	13.61	--	
	3/31/2007	LW-3	4.79	20.36	15.57	15.50	Yes
	4/23/2007	PZ-17	7.05	20.48	13.43	--	
	4/23/2007	LW-3	4.84	20.36	15.52	15.50	Yes
	5/28/2007	PZ-17	7.31	20.48	13.17	--	
	5/28/2007	LW-3	5.43	20.36	14.93	15.50	No
	6/30/2007	PZ-17	7.48	20.48	13.00	--	
	6/30/2007	LW-3	5.35	20.36	15.01	15.50	No
	8/1/2007	PZ-17	7.73	20.48	12.75	--	
	8/1/2007	LW-3	5.78	20.36	14.58	15.50	No
	9/29/2007	PZ-17	7.83	20.48	12.65	--	
	9/29/2007	LW-3	6.38	20.36	13.98	15.50	No
	11/22/2007	PZ-17	7.89	20.48	12.59	--	
	11/22/2007	LW-3	6.18	20.36	14.18	15.50	No
	1/26/2008	PZ-17	6.87	20.48	13.61	--	
	1/26/2008	LW-3	4.70	20.36	15.66	15.50	Yes
	2/28/2008	PZ-17	6.69	20.48	13.79	--	
	2/28/2008	LW-3	4.47	20.36	15.89	15.50	Yes

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
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Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	3/19/2008	PZ-17	6.84	20.48	13.64	--	
	3/19/2008	LW-3	4.58	20.36	15.78	15.50	Yes
	4/28/2008	PZ-17	7.13	20.48	13.35	--	
	4/28/2008	LW-3	4.63	20.36	15.73	15.50	Yes
	5/31/2008	PZ-17	7.68	20.48	12.80	--	
	5/31/2008	LW-3	5.34	20.36	15.02	15.50	No
	6/30/2008	PZ-17	7.57	20.48	12.91	--	
	6/30/2008	LW-3	5.54	20.36	14.82	15.50	No
	7/12/2008	PZ-17	7.63	20.48	12.85	--	
	7/12/2008	LW-3	5.70	20.36	14.66	15.50	No
	8/28/2008	PZ-17	7.91	20.48	12.57	--	
	8/28/2008	LW-3	5.31	20.36	15.05	15.50	No
	9/20/2008	PZ-17	7.99	20.48	12.49	--	
	9/20/2008	LW-3	6.37	20.36	13.99	15.50	No
	10/12/2008	PZ-17	8.21	20.48	12.27	--	
	10/12/2008	LW-3	6.59	20.36	13.77	15.50	No
	11/30/2008	PZ-17	8.01	20.48	12.47	--	
	11/30/2008	LW-3	5.73	20.36	14.63	15.50	No
	12/31/2008	PZ-17	7.95	20.48	12.53	--	
	12/31/2008	LW-3	NM	20.36	--	15.50	--
	1/31/2009	PZ-17	7.77	20.48	12.71	--	
	1/31/2009	LW-3	5.07	20.03	(c) 14.96	15.50	No
	2/23/2009	PZ-17	7.71	20.48	12.77	--	
	2/23/2009	LW-3	5.58	20.03	(c) 14.45	15.50	No
	3/29/2009	PZ-17	NM	20.48	--	--	
	3/29/2009	LW-3	6.62	20.03	(c) 13.41	15.50	--
	4/18/2009	PZ-17	7.73	20.48	12.75	--	
	4/18/2009	LW-3	6.63	20.03	(c) 13.40	15.50	No
	5/16/2009	PZ-17	7.60	20.48	12.88	--	
	5/16/2009	LW-3	5.05	20.03	(c) 14.98	15.50	No
	6/21/2009	PZ-17	7.61	20.48	12.87	--	
	6/21/2009	LW-3	7.28	20.03	(c) 12.75	15.50	No
	7/20/2009	PZ-17	7.79	20.48	12.69	--	
	7/20/2009	LW-3	6.07	20.03	(c) 13.96	15.50	No

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)		Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	8/10/2009	PZ-17	7.86	20.48		12.62	--	
	8/10/2009	LW-3	6.55	20.03	(c)	13.48	15.50	No
	9/7/2009	PZ-17	8.04	20.48		12.44	--	
	9/7/2009	LW-3	6.69	20.03	(c)	13.34	15.50	No
	10/10/2009	PZ-17	8.13	20.48		12.35	--	
	10/10/2009	LW-3	7.01	20.03	(c)	13.02	15.50	No
	11/28/2009	PZ-17	7.77	20.48		12.71	--	
	11/28/2009	LW-3	7.26	20.03	(c)	12.77	15.50	No
	12/31/2009	PZ-17	7.61	20.48		12.87	--	
	12/31/2009	LW-3	7.06	20.03	(c)	12.97	15.50	No
	1/14/2010	PZ-17	7.46	20.48		13.02	--	
	1/14/2010	LW-3	6.81	20.03	(c)	13.22	15.50	No
	2/21/2010	PZ-17	7.17	20.48		13.31	--	
	2/21/2010	LW-3	6.94	20.03	(c)	13.09	15.50	No
	3/17/2010	PZ-17	7.22	20.48		13.26	--	
	3/17/2010	LW-3	6.37	20.03	(c)	13.66	15.50	--
	4/25/2010	PZ-17	7.04	20.48		13.44	--	
	4/25/2010	LW-3	6.18	20.03	(c)	13.85	15.50	No
	5/16/2010	PZ-17	7.14	20.48		13.34	--	
	5/16/2010	LW-3	6.22	20.03	(c)	13.81	15.50	No
	6/26/2010	PZ-17	7.21	20.48		13.27	--	
	6/26/2010	LW-3	6.87	20.03	(c)	13.16	15.50	No
	7/23/2010	PZ-17	7.35	20.48		13.13	--	
	7/23/2010	LW-3	6.26	20.03	(c)	13.77	15.50	No
	8/30/2010	PZ-17	7.61	20.48		12.87	--	
	8/30/2010	LW-3	NA	19.83	(c)	NA	15.50	NA
	9/30/2010	PZ-17	7.64	20.48		12.84	--	
	9/30/2010	LW-3	6.63	19.83	(c)	13.20	15.50	No
	10/18/2010	PZ-17	7.76	20.48		12.72	--	
	10/18/2010	LW-3	5.90	19.83	(c)	13.93	15.50	No
	11/29/2010	PZ-17	7.50	20.48		12.98	--	
	11/29/2010	LW-3	NA	19.83	(c)	NA	15.50	NA
	12/25/2010	PZ-17	7.00	20.48		13.48	--	
	12/25/2010	LW-3	6.63	19.83	(c)	13.20	15.50	No

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)		Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	1/29/2011	PZ-17	7.00	20.48		13.48	--	
	1/29/2011	LW-3	6.13	19.83	(c)	13.70	15.50	No
	2/20/2011	PZ-17	7.02	20.48		13.46	--	
	2/20/2011	LW-3	5.96	19.83	(c)	13.87	15.50	No
	3/24/2011	PZ-17	6.55	20.48		13.93	--	
	3/24/2011	LW-3	5.72	19.83	(c)	14.11	15.50	No
	4/23/2011	PZ-17	6.54	20.48		13.94	--	
	4/23/2011	LW-3	6.04	19.83	(c)	13.79	15.50	No
	5/30/2011	PZ-17	6.70	20.48		13.78	--	
	5/30/2011	LW-3	5.79	19.83	(c)	14.04	15.50	No
	6/26/2011	PZ-17	6.95	20.48		13.53	--	
	6/26/2011	LW-3	6.16	19.83	(c)	13.67	15.50	No
	7/30/2011	PZ-17	7.16	20.48		13.32	--	
	7/30/2011	LW-3	5.30	19.83	(c)	14.53	15.50	No
	8/8/2011	PZ-17	7.24	20.48		13.24	--	
	8/8/2011	LW-3	5.51	19.83	(c)	14.32	15.50	No
	9/24/2011	PZ-17	7.45	20.48		13.03	--	
	9/24/2011	LW-3	5.85	19.83	(c)	13.98	15.50	No
	10/29/2011	PZ-17	7.63	20.48		12.85	--	
	10/29/2011	LW-3	5.98	19.83	(c)	13.85	15.50	No
	11/26/2011	PZ-17	7.04	20.48		13.44	--	
	11/26/2011	LW-3	6.83	19.83	(c)	13.00	15.50	No
	12/26/2011	PZ-17	7.63	20.48		12.85	--	
	12/26/2011	LW-3	6.10	19.83	(c)	13.73	15.50	No
	1/28/2012	PZ-17	7.14	20.48		13.34	--	
	1/28/2012	LW-3	5.18	19.83	(c)	14.65	15.50	No
	2/26/2012	PZ-17	7.09	20.48		13.39	--	
	2/26/2012	LW-3	4.70	19.83	(c)	15.13	15.50	No
	3/7/2012	PZ-17	7.22	20.48		13.26	--	
	3/7/2012	LW-3	5.17	19.83	(c)	14.66	15.50	No
	4/21/2012	PZ-17	6.72	20.48		13.76	--	
	4/21/2012	LW-3	5.63	19.83	(c)	14.20	15.50	No
	5/19/2012	PZ-17	6.88	20.48		13.60	--	
	5/19/2012	LW-3	5.12	19.83	(c)	14.71	15.50	No

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)		Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?	
	6/30/2012	PZ-17	7.08	20.48		13.40	--		
	6/30/2012	LW-3	NA	19.83	(c)	NA	15.50	NA	Lid stuck.
	7/27/2012	PZ-17	7.20	20.48		13.28	--		
	7/27/2012	LW-3	NA	19.83	(c)	NA	15.50	NA	Well coverec
	8/12/2012	PZ-17	7.21	20.48		13.27	--		
	8/12/2012	LW-3	5.22	19.83	(c)	14.61	15.50	No	
	9/30/2012	PZ-17	7.57	20.48		12.91	--		
	9/30/2012	LW-3	NA	19.83	(c)	NA	15.50	NA	
	10/24/2012	PZ-17	7.62	20.48		12.86	--		
	10/24/2012	LW-3	4.06	19.83	(c)	15.77	15.50	Yes	
	11/24/2012	PZ-17	7.21	20.48		13.27	--		
	11/24/2012	LW-3	5.88	19.83	(c)	13.95	15.50	No	
	12/30/2012	PZ-17	6.64	20.48		13.84	--		
	12/30/2012	LW-3	5.51	19.83	(c)	14.32	15.50	No	
	1/25/2013	PZ-17	6.79	20.48		13.69	--		
	1/25/2013	LW-3	5.61	19.83	(c)	14.22	15.50	No	
	2/9/2013	PZ-17	7.02	20.48		13.46	--		
	2/9/2013	LW-3	5.80	19.83	(c)	14.03	15.50	No	
	3/31/2013	PZ-17	7.07	20.48		13.41	--		
	3/31/2013	LW-3	5.81	19.83	(c)	14.02	15.50	No	
3	11/8/2006	PZ-18	6.31	21.20		14.89	--		
	11/8/2006	LW-4R	7.73	22.02		14.29	15.50	No	
	12/31/2006	PZ-18	7.95	21.20		13.25	--		
	12/31/2006	LW-4R	6.77	22.02		15.25	15.50	No	
	3/2/2007	PZ-18	7.28	21.20		13.92	--		
	3/2/2007	LW-4R	4.91	22.02		17.11	15.50	Yes	
	3/31/2007	PZ-18	9.47	21.20		11.73	--		
	3/31/2007	LW-4R	6.07	22.02		15.95	15.50	Yes	
	4/23/2007	PZ-18	4.31	21.20		16.89	--		
	4/23/2007	LW-4R	5.32	22.02		16.70	15.50	Yes	
	5/28/2007	PZ-18	9.82	21.20		11.38	--		
	5/28/2007	LW-4R	8.12	22.02		13.90	15.50	No	

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CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	6/30/2007	PZ-18	8.85	21.20	12.35	--	
	6/30/2007	LW-4R	6.07	22.02	15.95	15.50	Yes
	8/1/2007	PZ-18	5.16	21.20	16.04	--	
	8/1/2007	LW-4R	5.21	22.02	16.81	15.50	Yes
	9/29/2007	PZ-18	4.84	21.20	16.36	--	
	9/29/2007	LW-4R	5.66	22.02	16.36	15.50	Yes
	11/22/2007	PZ-18	5.87	21.20	15.33	--	
	11/22/2007	LW-4R	6.25	22.02	15.77	15.50	Yes
	1/26/2008	PZ-18	6.42	21.20	14.78	--	
	1/26/2008	LW-4R	4.74	22.02	17.28	15.50	Yes
	2/28/2008	PZ-18	6.86	21.20	14.34	--	
	2/28/2008	LW-4R	4.92	22.02	17.10	15.50	Yes
	3/19/2008	PZ-18	7.58	21.20	13.62	--	
	3/19/2008	LW-4R	7.70	22.02	14.32	15.50	No
	4/28/2008	PZ-18	6.72	21.20	14.48	--	
	4/28/2008	LW-4R	4.85	22.02	17.17	15.50	Yes
	5/31/2008	PZ-18	7.46	21.20	13.74	--	
	5/31/2008	LW-4R	5.26	22.02	16.76	15.50	Yes
	6/30/2008	PZ-18	7.44	21.20	16.36	--	
	6/30/2008	LW-4R	5.24	22.02	16.36	15.50	Yes
	7/12/2008	PZ-18	6.52	21.20	14.68	--	
	7/12/2008	LW-4R	5.33	22.02	16.69	15.50	Yes
	8/28/2008	PZ-18	6.55	21.20	14.65	--	
	8/28/2008	LW-4R	5.67	22.02	16.35	15.50	Yes
	9/20/2008	PZ-18	6.53	21.20	14.67	--	
	9/20/2008	LW-4R	5.63	22.02	16.39	15.50	Yes
	10/12/2008	PZ-18	7.83	21.20	13.37	--	
	10/12/2008	LW-4R	6.11	22.02	15.91	15.50	Yes
	11/30/2008	PZ-18	6.52	21.20	14.68	--	
	11/30/2008	LW-4R	6.18	22.02	15.84	15.50	Yes
	12/31/2008	PZ-18	7.01	21.20	14.19	--	
	12/31/2008	LW-4R	6.44	22.02	15.58	15.50	Yes
	1/31/2009	PZ-18	6.46	21.20	14.74	--	
	1/31/2009	LW-4R	6.17	22.02	15.85	15.50	Yes

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	2/23/2009	PZ-18	6.26	21.20	14.94	--	
	2/23/2009	LW-4R	6.35	22.02	15.67	15.50	Yes
	3/29/2009	PZ-18	6.29	21.20	14.91	--	
	3/29/2009	LW-4R	6.42	22.02	15.60	15.50	Yes
	4/18/2009	PZ-18	6.28	21.20	14.92	--	
	4/18/2009	LW-4R	6.35	22.02	15.67	15.50	Yes
	5/16/2009	PZ-18	6.21	21.20	14.99	--	
	5/16/2009	LW-4R	6.18	22.02	15.84	15.50	Yes
	6/21/2009	PZ-18	6.66	21.20	14.54	--	
	6/21/2009	LW-4R	6.23	22.02	15.79	15.50	Yes
	7/20/2009	PZ-18	9.93	21.20	11.27	--	
	7/20/2009	LW-4R	5.81	22.02	16.21	15.50	Yes
	8/10/2009	PZ-18	6.55	21.20	14.65	--	
	8/10/2009	LW-4R	7.47	22.02	14.55	15.50	No
	9/7/2009	PZ-18	8.77	21.20	12.43	--	
	9/7/2009	LW-4R	6.10	22.02	15.92	15.50	Yes
	10/10/2009	PZ-18	6.88	21.20	14.32	--	
	10/10/2009	LW-4R	6.09	22.02	15.93	15.50	Yes
	11/28/2009	PZ-18	9.25	21.20	11.95	--	
	11/28/2009	LW-4R	7.31	22.02	14.71	15.50	No
	12/31/2009	PZ-18	7.61	21.20	13.59	--	
	12/31/2009	LW-4R	NM	22.02	--	15.50	--
	1/14/2010	PZ-18	9.21	21.20	11.99	--	
	1/14/2010	LW-4R	7.46	22.02	14.56	15.50	No
	2/21/2010	PZ-18	6.50	21.20	14.70	--	
	2/21/2010	LW-4R	6.66	22.02	15.36	15.50	No
	3/17/2010	PZ-18	6.40	21.20	14.80	--	
	3/17/2010	LW-4R	7.07	22.02	14.95	15.50	No
	4/25/2010	PZ-18	9.57	21.20	11.63	--	
	4/25/2010	LW-4R	NA	22.02	NA	15.50	NA
	5/16/2010	PZ-18	NA	21.20	NA	--	
	5/16/2010	LW-4R	6.30	22.02	15.72	15.50	NA
	6/26/2010	PZ-18	9.35	21.20	11.85	--	
	6/26/2010	LW-4R	6.68	22.02	15.34	15.50	No

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	7/23/2010	PZ-18	9.62	21.20	11.58	--	
	7/23/2010	LW-4R	6.73	22.02	15.29	15.50	No
	8/30/2010	PZ-18	9.43	21.20	11.77	--	
	8/30/2010	LW-4R	6.57	22.02	15.45	15.50	No
	9/30/2010	PZ-18	8.62	21.20	12.58	--	
	9/30/2010	LW-4R	6.24	22.02	15.78	15.50	Yes
	10/18/2010	PZ-18	7.37	21.20	13.83	--	
	10/18/2010	LW-4R	6.36	22.02	15.66	15.50	Yes
	11/29/2010	PZ-18	9.77	21.20	11.43	--	
	11/29/2010	LW-4R	7.06	22.02	14.96	15.50	No
	12/25/2010	PZ-18	NA	21.20	NA	--	
	12/25/2010	LW-4R	7.11	22.02	14.91	15.50	NA
	1/29/2011	PZ-18	10.14	21.20	11.06	--	
	1/29/2011	LW-4R	NA	22.02	NA	15.50	NA
	2/20/2011	PZ-18	9.44	21.20	11.76	--	
	2/20/2011	LW-4R	NA	22.02	NA	15.50	NA
	3/24/2011	PZ-18	10.24	21.20	10.96	--	
	3/24/2011	LW-4R	6.45	22.02	15.57	15.50	Yes
	4/23/2011	PZ-18	9.44	21.20	11.76	--	
	4/23/2011	LW-4R	6.62	22.02	15.40	15.50	No
	5/30/2011	PZ-18	6.86	21.20	14.34	--	
	5/30/2011	LW-4R	6.37	22.02	15.65	15.50	Yes
	6/26/2011	PZ-18	6.01	21.20	15.19	--	
	6/26/2011	LW-4R	NA	22.02	NA	15.50	NA
	7/30/2011	PZ-18	6.43	21.20	14.77	--	
	7/30/2011	LW-4R	6.91	22.02	15.11	15.50	No
	8/8/2011	PZ-18	6.11	21.20	15.09	--	
	8/8/2011	LW-4R	6.56	22.02	15.46	15.50	No
	9/24/2011	PZ-18	NA	21.20	NA	--	
	9/24/2011	LW-4R	6.75	22.02	15.27	15.50	NA
	10/29/2011	PZ-18	NA	21.20	NA	--	
	10/29/2011	LW-4R	NA	22.02	NA	15.50	NA
	11/26/2011	PZ-18	NA	21.20	NA	--	
	11/26/2011	LW-4R	NA	22.02	NA	15.50	NA

**TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON**

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?	
	12/26/2011	PZ-18	7.21	21.20	13.99	--		
	12/26/2011	LW-4R	NA	22.02	NA	15.50	NA	
	1/28/2012	PZ-18	5.91	21.20	15.29	--		
	1/28/2012	LW-4R	8.35	22.02	13.67	15.50	No	
	2/26/2012	PZ-18	NA	21.20	NA	--		
	2/26/2012	LW-4R	NA	22.02	NA	15.50	NA	
	3/7/2012	PZ-18	6.34	21.20	14.86	--		
	3/7/2012	LW-4R	8.40	22.02	13.62	15.50	No	
	4/21/2012	PZ-18	NA	21.20	NA	--		
	4/21/2012	LW-4R	8.16	22.02	13.86	15.50	NA	
	5/19/2012	PZ-18	NA	21.20	NA	--		
	5/19/2012	LW-4R	8.02	22.02	14.00	15.50	NA	
	6/30/2012	PZ-18	9.62	21.2	11.58	--		
	6/30/2012	LW-4R	NA	22.02	NA	15.50	NA	Covered in b
	7/27/2012	PZ-18	9.62	21.2	11.58	--		
	7/27/2012	LW-4R	6.95	22.02	15.07	15.50	No	Well covered Pressure on
	8/12/2012	PZ-18	9.78	21.20	11.42	--		
	8/12/2012	LW-4R	NA	22.02	NA	15.50	NA	Pressure on
	9/30/2012	PZ-18	NA	21.20	NA	--		
	9/30/2012	LW-4R	NA	22.02	NA	15.50	NA	
	10/24/2012	PZ-18	6.90	21.20	14.30	--		
	10/24/2012	LW-4R	6.99	22.02	15.03	15.50	No	
	11/24/2012	PZ-18	NA	21.20	NA	--		
	11/24/2012	LW-4R	NA	22.02	NA	15.50	NA	Lid stuck Bark pile
	12/30/2012	PZ-18	8.03	21.2	13.17	--		
	12/30/2012	LW-4R	NA	22.02	NA	15.50	NA	Bark pile
	1/25/2013	PZ-18	7.25	21.2	13.95	--		
	1/25/2013	LW-4R	7.82	22.02	14.20	15.50	No	
	2/9/2013	PZ-18	8.34	21.2	12.86	--		
	2/9/2013	LW-4R	8.26	22.02	13.76	15.50	No	
	3/31/2013	PZ-18	NA	21.2	NA	--		
	3/31/2013	LW-4R	8.26	22.02	13.76	15.50	No	logs over we

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CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
4	11/8/2006	PZ-19	12.64	23.67	11.03	--	
	11/8/2006	MW-02S	12.71	30.47	17.76	15.50	Yes
	12/31/2006	PZ-19	11.22	23.67	12.45	--	
	12/31/2006	MW-02S	11.96	30.47	18.51	15.50	Yes
	3/2/2007	PZ-19	13.81	23.67	9.86	--	
	3/2/2007	MW-02S	13.04	30.47	17.43	15.50	Yes
	3/31/2007	PZ-19	14.79	23.67	8.88	--	
	3/31/2007	MW-02S	12.93	30.47	17.54	15.50	Yes
	4/23/2007	PZ-19	12.72	23.67	10.95	--	
	4/23/2007	MW-02S	14.42	30.47	16.05	15.50	Yes
	5/28/2007	PZ-19	16.43	23.67	7.24	--	
	5/28/2007	MW-02S	15.51	30.47	14.96	15.50	No
	6/30/2007	PZ-19	16.80	23.67	6.87	--	
	6/30/2007	MW-02S	15.92	30.47	14.55	15.50	No
	8/1/2007	PZ-19	14.85	23.67	8.82	--	
	8/1/2007	MW-02S	16.02	30.47	14.45	15.50	No
	9/29/2007	PZ-19	14.17	23.67	9.50	--	
	9/29/2007	MW-02S	16.89	30.47	13.58	15.50	No
	11/22/2007	PZ-19	13.95	23.67	9.72	--	
	11/22/2007	MW-02S	15.13	30.47	15.34	15.50	No
	1/26/2008	PZ-19	12.86	23.67	10.81	--	
	1/26/2008	MW-02S	13.68	30.47	16.79	15.50	Yes
	2/28/2008	PZ-19	14.95	23.67	8.72	--	
	2/28/2008	MW-02S	13.56	30.47	16.91	15.50	Yes
	3/19/2008	PZ-19	13.33	23.67	10.34	--	
	3/19/2008	MW-02S	13.92	30.47	16.55	15.50	Yes
	4/28/2008	PZ-19	14.03	23.67	9.64	--	
	4/28/2008	MW-02S	14.54	30.47	15.93	15.50	Yes
	5/31/2008	PZ-19	14.13	23.67	9.54	--	
	5/31/2008	MW-02S	15.12	30.47	15.35	15.50	No
	6/30/2008	PZ-19	13.22	23.67	9.50	--	
	6/30/2008	MW-02S	15.60	30.47	13.58	15.50	No
	7/12/2008	PZ-19	16.34	23.67	7.33	--	
	7/12/2008	MW-02S	15.73	30.47	14.74	15.50	No

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CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	8/28/2008	PZ-19	15.77	23.67	7.90	--	
	8/28/2008	MW-02S	16.43	30.47	14.04	15.50	No
	9/20/2008	PZ-19	13.78	23.67	9.89	--	
	9/20/2008	MW-02S	NM	30.47	--	15.50	--
	10/12/2008	PZ-19	14.42	23.67	9.25	--	
	10/12/2008	MW-02S	NM	30.47	--	15.50	--
	11/30/2008	PZ-19	13.42	23.67	10.25	--	
	11/30/2008	MW-02S	NM	30.47	--	15.50	--
	12/31/2008	PZ-19	12.70	23.67	10.97	--	
	12/31/2008	MW-02S	NM	30.47	--	15.50	--
	1/31/2009	PZ-19	15.00	23.67	8.67	--	
	1/31/2009	MW-02S	16.81	32.46	15.65	15.50	Yes
	2/23/2009	PZ-19	13.63	23.67	10.04	--	
	2/23/2009	MW-02S	17.22	32.46	15.24	15.50	No
	3/29/2009	PZ-19	16.13	23.67	7.54	--	
	3/29/2009	MW-02S	17.20	32.46	15.26	15.50	No
	4/18/2009	PZ-19	14.78	23.67	8.89	--	
	4/18/2009	MW-02S	17.13	32.46	15.33	15.50	No
	5/16/2009	PZ-19	14.16	23.67	9.51	--	
	5/16/2009	MW-02S	16.79	32.46	15.67	15.50	Yes
	6/21/2009	PZ-19	14.53	23.67	9.14	--	
	6/21/2009	MW-02S	17.65	32.46	14.81	15.50	No
	7/20/2009	PZ-19	12.42	23.67	11.25	--	
	7/20/2009	MW-02S	18.00	32.46	14.46	15.50	No
	8/10/2009	PZ-19	13.47	23.67	10.20	--	
	8/10/2009	MW-02S	18.37	32.46	14.09	15.50	No
	9/7/2009	PZ-19	13.74	23.67	9.93	--	
	9/7/2009	MW-02S	18.85	32.46	13.61	15.50	No
	10/10/2009	PZ-19	13.67	23.67	10.00	--	
	10/10/2009	MW-02S	19.26	32.46	13.20	15.50	No
	11/28/2009	PZ-19	14.26	23.67	9.41	--	
	11/28/2009	MW-02S	18.17	32.46	14.29	15.50	No
	12/31/2009	PZ-19	11.39	23.67	12.28	--	
	12/31/2009	MW-02S	18.02	32.46	14.44	15.50	No

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	1/14/2010	PZ-19	11.61	23.67	12.06	--	
	1/14/2010	MW-02S	17.27	32.46	15.19	15.50	No
	2/21/2010	PZ-19	11.51	23.67	12.16	--	
	2/21/2010	MW-02S	16.79	32.46	15.67	15.50	Yes
	3/17/2010	PZ-19	14.65	23.67	9.02	--	
	3/17/2010	MW-02S	16.39	32.46	16.07	15.50	Yes
	4/25/2010	PZ-19	13.67	23.67	10.00	--	
	4/25/2010	MW-02S	17.23	32.46	15.23	15.50	No
	5/16/2010	PZ-19	16.69	23.67	6.98	--	
	5/16/2010	MW-02S	17.59	32.46	14.87	15.50	No
	6/26/2010	PZ-19	13.67	23.67	10.00	--	
	6/26/2010	MW-02S	18.16	32.46	14.30	15.50	No
	7/23/2010	PZ-19	16.86	23.67	6.81	--	
	7/23/2010	MW-02S	18.51	32.46	13.95	15.50	No
	8/30/2010	PZ-19	14.23	23.67	9.44	--	
	8/30/2010	MW-02S	18.04	32.46	14.42	15.50	No
	9/30/2010	PZ-19	13.67	23.67	10.00	--	
	9/30/2010	MW-02S	17.27	32.46	15.19	15.50	No
	10/18/2010	PZ-19	15.84	23.67	7.83	--	
	10/18/2010	MW-02S	17.72	32.46	14.74	15.50	No
	11/29/2010	PZ-19	12.89	23.67	10.78	--	
	11/29/2010	MW-02S	17.13	32.46	15.33	15.50	No
	12/25/2010	PZ-19	10.81	23.67	12.86	--	
	12/25/2010	MW-02S	15.90	32.46	16.56	15.50	Yes
	1/29/2011	PZ-19	11.97	23.67	11.70	--	
	1/29/2011	MW-02S	16.18	32.46	16.28	15.50	Yes
	2/20/2011	PZ-19	15.01	23.67	8.66	--	
	2/20/2011	MW-02S	16.99	32.46	15.47	15.50	No
	3/24/2011	PZ-19	10.93	23.67	12.74	--	
	3/24/2011	MW-02S	15.15	32.46	17.31	15.50	Yes
	4/23/2011	PZ-19	15.81	23.67	7.86	--	
	4/23/2011	MW-02S	15.62	32.46	16.84	15.50	Yes
	5/30/2011	PZ-19	15.07	23.67	8.60	--	
	5/30/2011	MW-02S	16.23	32.46	16.23	15.50	Yes

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	6/26/2011	PZ-19	13.87	23.67	9.80	--	
	6/26/2011	MW-02S	16.88	32.46	15.58	15.50	Yes
	7/30/2011	PZ-19	15.93	23.67	7.74	--	
	7/30/2011	MW-02S	17.08	32.46	15.38	15.50	No
	8/8/2011	PZ-19	16.19	23.67	7.48	--	
	8/8/2011	MW-02S	17.26	32.46	15.20	15.50	No
	9/24/2011	PZ-19	15.34	23.67	8.33	--	
	9/24/2011	MW-02S	17.52	31.96 (e)	14.44	15.50	No
	10/29/2011	PZ-19	13.66	23.67	10.01	--	
	10/29/2011	MW-02S	17.77	31.96 (e)	14.19	15.50	No
	11/26/2011	PZ-19	11.91	23.67	11.76	--	
	11/26/2011	MW-02S	16.08	31.96 (e)	15.88	15.50	Yes
	12/26/2011	PZ-19	13.50	23.67	10.17	--	
	12/26/2011	MW-02S	17.45	31.96 (e)	14.51	15.50	No
	1/28/2012	PZ-19	12.50	23.67	11.17	--	
	1/28/2012	MW-02S	15.33	31.96 (e)	16.63	15.50	Yes
	2/26/2012	PZ-19	15.09	23.67	8.58	--	
	2/26/2012	MW-02S	15.75	31.96 (e)	16.21	15.50	Yes
	3/7/2012	PZ-19	14.88	23.67	8.79	--	
	3/7/2012	MW-02S	16.28	31.96 (e)	15.68	15.50	Yes
	4/21/2012	PZ-19	15.35	23.67	8.32	--	
	4/21/2012	MW-02S	15.85	31.96 (e)	16.11	15.50	Yes
	5/19/2012	PZ-19	13.37	23.67	10.30	--	
	5/19/2012	MW-02S	16.37	31.96 (e)	15.59	15.50	Yes
	6/30/2012	PZ-19	14.11	23.67	9.56	--	
	6/30/2012	MW-02S	16.13	31.96 (e)	15.83	15.50	Yes
	7/27/2012	PZ-19	14.18	23.67	9.49	--	
	7/27/2012	MW-02S	16.02	31.96 (e)	15.94	15.50	Yes
	8/12/2012	PZ-19	14.71	23.67	8.96	--	
	8/12/2012	MW-02S	15.80	31.96 (e)	16.16	15.50	Yes
	9/30/2012	PZ-19	14.64	23.67	9.03	--	
	9/30/2012	MW-02S	16.09	31.96 (e)	15.87	15.50	Yes
	10/24/2012	PZ-19	15.59	23.67	8.08	--	
	10/24/2012	MW-02S	16.50	31.96 (e)	15.46	15.50	No

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	11/24/2012	PZ-19	12.3	23.67	11.37	--	
	11/24/2012	MW-02S	14.72	31.96	(e) 17.24	15.50	Yes
	12/30/2012	PZ-19	13.21	23.67	10.46	--	
	12/30/2012	MW-02S	15.19	31.96	(e) 16.77	15.50	Yes
	1/25/2013	PZ-19	12.46	23.67	11.21	--	
	1/25/2013	MW-02S	16.00	31.96	(e) 15.96	15.50	Yes
	2/9/2013	PZ-19	12.81	23.67	10.86	--	
	2/9/2013	MW-02S	16.57	31.96	(e) 15.39	15.50	No
	3/31/2013	PZ-19	15.91	23.67	7.76	--	
	3/31/2013	MW-02S	16.57	31.96	(e) 15.39	15.50	No
5	11/8/2006	MW-02S	12.74	30.47	17.76	--	
	11/8/2006	MW-02D	18.24	31.79	13.55	--	
	12/31/2006	MW-02S	11.96	30.47	18.51	--	
	12/31/2006	MW-02D	16.29	31.79	15.50	--	
	3/2/2007	MW-02S	13.04	30.47	17.43	--	
	3/2/2007	MW-02D	19.51	31.79	12.28	--	
	3/31/2007	MW-02S	12.93	30.47	17.54	--	
	3/31/2007	MW-02D	20.11	31.79	11.68	--	
	4/23/2007	MW-02S	14.42	30.47	16.05	--	
	4/23/2007	MW-02D	17.72	31.79	14.07	--	
	5/28/2007	MW-02S	15.51	30.47	14.96	--	
	5/28/2007	MW-02D	20.60	31.79	11.19	--	
	6/30/2007	MW-02S	15.92	30.47	14.55	--	
	6/30/2007	MW-02D	22.15	31.79	9.64	--	
	8/1/2007	MW-02S	16.02	30.47	14.45	--	
	8/1/2007	MW-02D	21.70	31.79	10.09	--	
	9/29/2007	MW-02S	16.89	30.47	13.58	--	
	9/29/2007	MW-02D	19.82	31.79	11.97	--	
	11/22/2007	MW-02S	15.13	30.47	15.34	--	
	11/22/2007	MW-02D	17.61	31.79	14.18	--	
	1/26/2008	MW-02S	13.68	30.47	16.79	--	
	1/26/2008	MW-02D	18.57	31.79	13.22	--	
	2/28/2008	MW-02S	13.56	30.47	16.91	--	
	2/28/2008	MW-02D	21.25	31.79	10.54	--	

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	3/19/2008	MW-02S	13.92	30.47	16.55	--	
	3/19/2008	MW-02D	17.87	31.79	13.92	--	
	4/28/2008	MW-02S	14.54	30.47	15.93	--	
	4/28/2008	MW-02D	19.45	31.79	12.34	--	
	5/31/2008	MW-02S	15.12	30.47	15.35	--	
	5/31/2008	MW-02D	19.16	31.79	12.63	--	
	6/30/2008	MW-02S	15.60	30.47	13.58	--	
	6/30/2008	MW-02D	17.79	31.79	11.97	--	
	7/12/2008	MW-02S	15.73	30.47	14.74	--	
	7/12/2008	MW-02D	20.75	31.79	11.04	--	
	8/28/2008	MW-02S	16.43	30.47	14.04	--	
	8/28/2008	MW-02D	22.24	31.79	9.55	--	
	9/20/2008	MW-02S	NM	30.47	--	--	
	9/20/2008	MW-02D	NM	31.79	--	--	
	10/12/2008	MW-02S	NM	30.47	--	--	
	10/12/2008	MW-02D	NM	31.79	--	--	
	11/30/2008	MW-02S	NM	30.47	--	--	
	11/30/2008	MW-02D	NM	31.79	--	--	
	12/31/2008	MW-02S	NM	30.47	--	--	
	12/31/2008	MW-02D	NM	31.79	--	--	
	1/31/2009	MW-02S	16.81	32.46 (d)	15.65	--	
	1/31/2009	MW-02D	21.38	31.90 (d)	10.52	--	
	2/23/2009	MW-02S	17.22	32.46	15.24	--	
	2/23/2009	MW-02D	18.30	31.90	13.60	--	
	3/29/2009	MW-02S	17.20	32.46	15.26	--	
	3/29/2009	MW-02D	20.02	31.90	11.88	--	
	4/18/2009	MW-02S	17.13	32.46	15.33	--	
	4/18/2009	MW-02D	19.96	31.90	11.94	--	
	5/16/2009	MW-02S	16.79	32.46	15.67	--	
	5/16/2009	MW-02D	19.43	31.90	12.47	--	
	6/21/2009	MW-02S	17.65	32.46	14.81	--	
	6/21/2009	MW-02D	17.62	31.90	14.28	--	
	7/20/2009	MW-02S	18.00	32.46	14.46	--	
	7/20/2009	MW-02D	18.25	31.90	13.65	--	

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	8/10/2009	MW-02S	18.37	32.46	14.09	--	
	8/10/2009	MW-02D	17.91	31.90	13.99	--	
	9/7/2009	MW-02S	18.85	32.46	13.61	--	
	9/7/2009	MW-02D	19.53	31.90	12.37	--	
	10/10/2009	MW-02S	19.26	32.46	13.20	--	
	10/10/2009	MW-02D	18.87	31.90	13.03	--	
	11/28/2009	MW-02S	18.17	32.46	14.29	--	
	11/28/2009	MW-02D	18.98	31.90	12.92	--	
	12/31/2009	MW-02S	18.02	32.46	14.44	--	
	12/31/2009	MW-02D	15.98	31.90	15.92	--	
	1/14/2010	MW-02S	17.27	32.46	15.19	--	
	1/14/2010	MW-02D	17.30	31.90	14.60	--	
	2/21/2010	MW-02S	16.79	32.46	15.67	--	
	2/21/2010	MW-02D	16.63	31.90	15.27	--	
	3/17/2010	MW-02S	16.39	32.46	16.07	--	
	3/17/2010	MW-02D	18.12	31.90	13.78	--	
	4/25/2010	MW-02S	17.23	32.46	15.23	--	
	4/25/2010	MW-02D	18.31	31.90	13.59	--	
	5/16/2010	MW-02S	17.59	32.46	14.87	--	
	5/16/2010	MW-02D	20.96	31.90	10.94	--	
	6/26/2010	MW-02S	18.16	32.46	14.30	--	
	6/26/2010	MW-02D	20.48	31.90	11.42	--	
	7/23/2010	MW-02S	18.51	32.46	13.95	--	
	7/23/2010	MW-02D	21.13	31.90	10.77	--	
	8/30/2010	MW-02S	18.04	32.46	14.42	--	
	8/30/2010	MW-02D	18.14	31.90	13.76	--	
	9/30/2010	MW-02S	17.27	32.46	15.19	--	
	9/30/2010	MW-02D	18.48	31.90	13.42	--	
	10/18/2010	MW-02S	17.72	32.46	14.74	--	
	10/18/2010	MW-02D	21.20	31.90	10.70	--	
	11/29/2010	MW-02S	17.13	32.46	15.33	--	
	11/29/2010	MW-02D	16.71	31.90	15.19	--	
	12/25/2010	MW-02S	15.90	32.46	16.56	--	
	12/25/2010	MW-02D	15.44	31.90	16.46	--	

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	1/29/2011	MW-02S	16.18	32.46	16.28	--	
	1/29/2011	MW-02D	17.61	31.90	14.29	--	
	2/20/2011	MW-02S	16.99	32.46	15.47	--	
	2/20/2011	MW-02D	19.95	31.90	11.95	--	
	3/24/2011	MW-02S	15.15	32.46	17.31	--	
	3/24/2011	MW-02D	15.34	31.90	16.56	--	
	4/23/2011	MW-02S	15.62	32.46	16.84	--	
	4/23/2011	MW-02D	21.73	31.90	10.17	--	
	5/30/2011	MW-02S	16.23	32.46	16.23	--	
	5/30/2011	MW-02D	21.58	31.90	10.32	--	
	6/26/2011	MW-02S	16.88	32.46	15.58	--	
	6/26/2011	MW-02D	18.31	31.90	13.59	--	
	7/30/2011	MW-02S	17.08	32.46	15.38	--	
	7/30/2011	MW-02D	22.39	31.90	9.51	--	
	8/8/2011	MW-02S	17.26	32.46	15.20	--	
	8/8/2011	MW-02D	21.40	31.90	10.50	--	
	9/24/2011	MW-02S	17.52	31.96 (e)	14.44	--	
	9/24/2011	MW-02D	21.44	31.81 (e)	10.37	--	
	10/29/2011	MW-02S	17.77	31.96 (e)	14.19	--	
	10/29/2011	MW-02D	17.73	31.81 (e)	14.08	--	
	11/26/2011	MW-02S	16.08	31.96 (e)	15.88	--	
	11/26/2011	MW-02D	16.43	31.81 (e)	15.38	--	
	12/26/2011	MW-02S	17.45	31.96 (e)	14.51	--	
	12/26/2011	MW-02D	19.26	31.81 (e)	12.55	--	
	1/28/2012	MW-02S	15.33	31.96 (e)	16.63	--	
	1/28/2012	MW-02D	16.61	31.81 (e)	15.20	--	
	2/26/2012	MW-02S	15.75	31.96 (e)	16.21	--	
	2/26/2012	MW-02D	21.30	31.81 (e)	10.51	--	
	3/7/2012	MW-02S	16.28	31.96 (e)	15.68	--	
	3/7/2012	MW-02D	20.75	31.81 (e)	11.06	--	
	4/21/2012	MW-02S	15.85	31.96 (e)	16.11	--	
	4/21/2012	MW-02D	19.86	31.81 (e)	11.95	--	
	5/19/2012	MW-02S	16.37	31.96 (e)	15.59	--	
	5/19/2012	MW-02D	20.17	31.81 (e)	11.64	--	

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	6/30/2012	MW-02S	16.13	31.96	(e) 15.83	--	
	6/30/2012	MW-02D	17.29	31.81	(e) 14.52	--	
	7/27/2012	MW-02S	16.02	31.96	(e) 15.94	--	
	7/27/2012	MW-02D	18.81	31.81	(e) 13.00	--	
	8/12/2012	MW-02S	15.80	31.96	(e) 16.16	--	
	8/12/2012	MW-02D	17.99	31.81	(e) 13.82	--	
	9/30/2012	MW-02S	16.09	31.96	(e) 15.87	--	
	9/30/2012	MW-02D	17.80	31.81	(e) 14.01	--	
	10/24/2012	MW-02S	16.50	31.96	(e) 15.46	--	
	10/24/2012	MW-02D	20.12	31.81	(e) 11.69	--	
	11/24/2012	MW-02S	14.72	31.96	(e) 17.24	--	
	11/24/2012	MW-02D	16.49	31.81	(e) 15.32	--	
	12/30/2012	MW-02S	15.19	31.96	(e) 16.77	--	
	12/30/2012	MW-02D	17.87	31.81	(e) 13.94	--	
	1/25/2013	MW-02S	16.61	31.96	(e) 15.35	--	
	1/25/2013	MW-02D	16.00	31.81	(e) 15.81	--	
	2/9/2013	MW-02S	16.54	31.96	(e) 15.42	--	
	2/9/2013	MW-02D	16.57	31.81	(e) 15.24	--	
	3/31/2013	MW-02S	16.57	31.96	(e) 15.39	--	
	3/31/2013	MW-02D	21.87	31.81	(e) 9.94	--	
6	11/8/2006	MW-01S	7.51	21.64	14.13	--	
	11/8/2006	MW-01D	7.94	21.87	13.93	--	
	12/31/2006	MW-01S	5.59	21.64	16.05	--	
	12/31/2006	MW-01D	6.78	21.87	15.09	--	
	3/2/2007	MW-01S	5.81	21.64	15.83	--	
	3/2/2007	MW-01D	8.92	21.87	12.95	--	
	3/31/2007	MW-01S	5.71	21.64	15.93	--	
	3/31/2007	MW-01D	9.51	21.87	12.36	--	
	4/23/2007	MW-01S	6.17	21.64	15.47	--	
	4/23/2007	MW-01D	7.89	21.87	13.98	--	
	5/28/2007	MW-01S	6.78	21.64	14.86	--	
	5/28/2007	MW-01D	11.02	21.87	10.85	--	

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	6/30/2007	MW-01S	7.12	21.64	14.52	--	
	6/30/2007	MW-01D	11.74	21.87	10.13	--	
	8/1/2007	MW-01S	7.29	21.64	14.35	--	
	8/1/2007	MW-01D	9.57	21.87	12.30	--	
	9/29/2007	MW-01S	8.03	21.64	13.61	--	
	9/29/2007	MW-01D	8.83	21.87	13.04	--	
	11/22/2007	MW-01S	7.79	21.64	13.85	--	
	11/22/2007	MW-01D	8.89	21.87	12.98	--	
	1/26/2008	MW-01S	7.69	21.64	13.95	--	
	1/26/2008	MW-01D	5.63	21.87	16.24	--	
	2/28/2008	MW-01S	5.41	21.64	16.23	--	
	2/28/2008	MW-01D	9.87	21.87	12.00	--	
	3/19/2008	MW-01S	5.76	21.64	15.88	--	
	3/19/2008	MW-01D	9.62	21.87	12.25	--	
	4/28/2008	MW-01S	6.06	21.64	15.58	--	
	4/28/2008	MW-01D	8.65	21.87	13.22	--	
	5/31/2008	MW-01S	6.53	21.64	15.11	--	
	5/31/2008	MW-01D	8.72	21.87	13.15	--	
	6/30/2008	MW-01S	6.74	21.64	13.61	--	
	6/30/2008	MW-01D	7.94	21.87	13.04	--	
	7/12/2008	MW-01S	6.92	21.64	14.72	--	
	7/12/2008	MW-01D	10.94	21.87	10.93	--	
	8/28/2008	MW-01S	7.62	21.64	14.02	--	
	8/28/2008	MW-01D	11.03	21.87	10.84	--	
	9/20/2008	MW-01S	7.75	21.64	13.89	--	
	9/20/2008	MW-01D	8.58	21.87	13.29	--	
	10/12/2008	MW-01S	7.76	21.64	13.88	--	
	10/12/2008	MW-01D	8.59	21.87	13.28	--	
	11/30/2008	MW-01S	6.93	21.64	14.71	--	
	11/30/2008	MW-01D	8.44	21.87	13.43	--	
	12/31/2008	MW-01S	6.86	21.64	14.78	--	
	12/31/2008	MW-01D	7.81	21.87	14.06	--	
	1/31/2009	MW-01S	6.54	21.64	15.10	--	
	1/31/2009	MW-01D	9.94	21.87	11.93	--	

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	2/23/2009	MW-01S	6.73	21.64	14.91	--	
	2/23/2009	MW-01D	9.27	21.87	12.60	--	
	3/29/2009	MW-01S	6.67	21.64	14.97	--	
	3/29/2009	MW-01D	11.20	21.87	10.67	--	
	4/18/2009	MW-01S	6.61	21.64	15.03	--	
	4/18/2009	MW-01D	10.30	21.87	11.57	--	
	5/16/2009	MW-01S	6.34	21.64	15.30	--	
	5/16/2009	MW-01D	9.21	21.87	12.66	--	
	6/21/2009	MW-01S	6.81	21.64	14.83	--	
	6/21/2009	MW-01D	8.52	21.87	13.35	--	
	7/20/2009	MW-01S	7.21	21.64	14.43	--	
	7/20/2009	MW-01D	7.12	21.87	14.75	--	
	8/10/2009	MW-01S	7.40	21.64	14.24	--	
	8/10/2009	MW-01D	8.36	21.87	13.51	--	
	9/7/2009	MW-01S	7.79	21.64	13.85	--	
	9/7/2009	MW-01D	9.28	21.87	12.59	--	
	10/10/2009	MW-01S	8.19	21.64	13.45	--	
	10/10/2009	MW-01D	8.67	21.87	13.20	--	
	11/28/2009	MW-01S	7.48	21.64	14.16	--	
	11/28/2009	MW-01D	8.76	21.87	13.11	--	
	12/31/2009	MW-01S	7.22	21.64	14.42	--	
	12/31/2009	MW-01D	6.35	21.87	15.52	--	
	1/14/2010	MW-01S	6.96	21.64	14.68	--	
	1/14/2010	MW-01D	6.94	21.87	14.93	--	
	2/21/2010	MW-01S	6.41	21.64	15.23	--	
	2/21/2010	MW-01D	7.15	21.87	14.72	--	
	3/17/2010	MW-01S	6.28	21.64	15.36	--	
	3/17/2010	MW-01D	8.24	21.87	13.63	--	
	4/25/2010	MW-01S	6.31	21.64	15.33	--	
	4/25/2010	MW-01D	8.61	21.87	13.26	--	
	5/16/2010	MW-01S	6.52	21.64	15.12	--	
	5/16/2010	MW-01D	10.69	21.87	11.18	--	
	6/26/2010	MW-01S	6.84	21.64	14.80	--	
	6/26/2010	MW-01D	10.04	21.87	11.83	--	

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	7/23/2010	MW-01S	7.03	21.64	14.61	--	
	7/23/2010	MW-01D	10.75	21.87	11.12	--	
	8/30/2010	MW-01S	7.48	21.64	14.16	--	
	8/30/2010	MW-01D	8.82	21.87	13.05	--	
	9/30/2010	MW-01S	7.26	21.64	14.38	--	
	9/30/2010	MW-01D	8.00	21.87	13.87	--	
	10/18/2010	MW-01S	7.24	21.64	14.40	--	
	10/18/2010	MW-01D	12.53	21.87	9.34	--	
	11/29/2010	MW-01S	6.84	21.64	14.80	--	
	11/29/2010	MW-01D	9.66	21.87	12.21	--	
	12/25/2010	MW-01S	6.54	21.64	15.10	--	
	12/25/2010	MW-01D	6.41	21.87	15.46	--	
	1/29/2011	MW-01S	6.49	21.64	15.15	--	
	1/29/2011	MW-01D	7.72	21.87	14.15	--	
	2/20/2011	MW-01S	6.48	21.64	15.16	--	
	2/20/2011	MW-01D	9.40	21.87	12.47	--	
	3/24/2011	MW-01S	5.86	21.64	15.78	--	
	3/24/2011	MW-01D	5.93	21.87	15.94	--	
	4/23/2011	MW-01S	5.98	21.64	15.66	--	
	4/23/2011	MW-01D	10.67	21.87	11.20	--	
	5/30/2011	MW-01S	6.53	21.64	15.11	--	
	5/30/2011	MW-01D	10.63	21.87	11.24	--	
	6/26/2011	MW-01S	7.01	21.64	14.63	--	
	6/26/2011	MW-01D	8.44	21.87	13.43	--	
	7/30/2011	MW-01S	7.13	21.64	14.51	--	
	7/30/2011	MW-01D	10.85	21.87	11.02	--	
	8/8/2011	MW-01S	7.20	21.64	14.44	--	
	8/8/2011	MW-01D	10.94	21.87	10.93	--	
	9/24/2011	MW-01S	7.51	21.64	14.13	--	
	9/24/2011	MW-01D	10.65	21.87	11.22	--	
	10/29/2011	MW-01S	7.74	21.64	13.90	--	
	10/29/2011	MW-01D	7.90	21.87	13.97	--	
	11/26/2011	MW-01S	7.30	21.64	14.34	--	
	11/26/2011	MW-01D	6.53	21.87	15.34	--	

**TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON**

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)		Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	12/26/2011	MW-01S	7.62	21.64		14.02	--	
	12/26/2011	MW-01D	8.70	21.72	(f)	13.02	--	
	1/28/2012	MW-01S	6.41	21.64		15.23	--	
	1/28/2012	MW-01D	7.24	21.72	(f)	14.48	--	
	2/26/2012	MW-01S	6.41	21.64		15.23	--	
	2/26/2012	MW-01D	10.20	21.72	(f)	11.52	--	
	3/7/2012	MW-01S	6.66	21.64		14.98	--	
	3/7/2012	MW-01D	9.18	21.72	(f)	12.54	--	
	4/21/2012	MW-01S	6.67	21.64		14.97	--	
	4/21/2012	MW-01D	8.87	21.72	(f)	12.85	--	
	5/19/2001	MW-01S	6.63	21.64		15.01	--	
	5/19/2001	MW-01D	9.50	21.72	(f)	12.22	--	
	6/30/2012	MW-01S	6.33	21.64		15.31	--	
	6/30/2012	MW-01D	7.94	21.72	(f)	13.78	--	
	7/27/2012	MW-01S	6.20	21.64		15.44	--	
	7/27/2012	MW-01D	8.26	21.72	(f)	13.46	--	
	8/12/2012	MW-01S	6.04	21.64		15.60	--	
	8/12/2012	MW-01D	8.32	21.72	(f)	13.40	--	
	9/30/2012	MW-01S	6.11	21.64		15.53	--	
	9/30/2012	MW-01D	8.21	21.72	(f)	13.51	--	
	10/24/2012	MW-01S	6.49	21.64		15.15	--	
	10/24/2012	MW-01D	9.30	21.72	(f)	12.42	--	
	11/24/2012	MW-01S	5.81	21.64		15.83	--	
	11/24/2012	MW-01D	7.09	21.72	(f)	14.63	--	
	12/30/2012	MW-01S	5.85	21.64		15.79	--	
	12/30/2012	MW-01D	7.58	21.72	(f)	14.14	--	
	1/25/2013	MW-01S	6.37	21.64		15.27	--	
	1/25/2013	MW-01D	7.00	21.72	(f)	14.72	--	
	2/9/2013	MW-01S	6.71	21.64		14.93	--	
	2/9/2013	MW-01D	7.17	21.72	(f)	14.55	--	
	3/31/2013	MW-01S	6.96	21.64		14.68	--	
	3/31/2013	MW-01D	10.61	21.72	(f)	11.11	--	

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
7	11/8/2006	MW-05S	12.29	29.25	16.96	16.50	Yes
	11/8/2006	MW-05D	14.36	28.10	13.74	--	--
	12/31/2006	MW-05S	11.07	29.25	18.18	16.50	Yes
	12/31/2006	MW-05D	11.96	28.10	16.14	--	--
	3/2/2007	MW-05S	12.53	29.25	16.72	16.50	Yes
	3/2/2007	MW-05D	16.18	28.10	11.92	--	--
	3/31/2007	MW-05S	12.19	29.25	17.06	16.50	Yes
	3/31/2007	MW-05D	16.22	28.10	11.88	--	--
	4/23/2007	MW-05S	13.63	29.25	15.62	16.50	No
	4/23/2007	MW-05D	13.93	28.10	14.17	--	--
	5/28/2007	MW-05S	15.03	29.25	14.22	16.50	No
	5/28/2007	MW-05D	16.01	28.10	12.09	--	--
	6/30/2007	MW-05S	15.12	29.25	14.13	16.50	No
	6/30/2007	MW-05D	17.80	28.10	10.30	--	--
	8/1/2007	MW-05S	15.15	29.25	14.10	16.50	No
	8/1/2007	MW-05D	18.67	28.10	9.43	--	--
	9/29/2007	MW-05S	16.55	29.25	12.70	16.50	No
	9/29/2007	MW-05D	16.50	28.10	11.60	--	--
	11/22/2007	MW-05S	15.04	29.25	14.21	16.50	No
	11/22/2007	MW-05D	12.63	28.10	15.47	--	--
	1/26/2008	MW-05S	13.25	29.25	16.00	16.50	No
	1/26/2008	MW-05D	15.45	28.10	12.65	--	--
	2/28/2008	MW-05S	12.56	29.25	16.69	16.50	Yes
	2/28/2008	MW-05D	17.81	28.10	10.29	--	--
	3/19/2008	MW-05S	13.44	29.25	15.81	16.50	No
	3/19/2008	MW-05D	17.97	28.10	10.13	--	--
	4/28/2008	MW-05S	13.79	29.25	15.46	16.50	No
	4/28/2008	MW-05D	16.16	28.10	11.94	--	--
	5/31/2008	MW-05S	14.08	29.25	15.17	16.50	No
	5/31/2008	MW-05D	15.63	28.10	12.47	--	--
	6/30/2008	MW-05S	15.02	29.25	12.70	16.50	No
	6/30/2008	MW-05D	14.00	28.10	11.60	--	--
	7/12/2008	MW-05S	15.22	29.25	14.03	16.50	No
	7/12/2008	MW-05D	16.33	28.10	11.77	--	--

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	8/28/2008	MW-05S	16.03	29.25	13.22	16.50	No
	8/28/2008	MW-05D	18.98	28.10	9.12	--	--
	9/20/2008	MW-05S	NM	29.25	--	16.50	--
	9/20/2008	MW-05D	NM	28.10	--	--	--
	10/12/2008	MW-05S	NM	29.25	--	16.50	--
	10/12/2008	MW-05D	NM	28.10	--	--	--
	11/30/2008	MW-05S	NM	29.25	--	16.50	--
	11/30/2008	MW-05D	NM	28.10	--	--	--
	12/31/2008	MW-05S	NM	29.25	--	16.50	--
	12/31/2008	MW-05D	NM	28.10	--	--	--
	1/31/2009	MW-05S	15.38	29.45 (d)	14.07	16.50	No
	1/31/2009	MW-05D	16.77	26.50 (d)	9.73	--	--
	2/23/2009	MW-05S	15.85	29.45 (d)	13.60	16.50	No
	2/23/2009	MW-05D	12.01	26.50 (d)	14.49	--	--
	3/29/2009	MW-05S	15.17	29.45 (d)	14.28	16.50	No
	3/29/2009	MW-05D	13.86	26.50 (d)	12.64	--	--
	4/18/2009	MW-05S	15.63	29.45 (d)	13.82	16.50	No
	4/18/2009	MW-05D	14.41	26.50 (d)	12.09	--	--
	5/16/2009	MW-05S	15.09	29.45 (d)	14.36	16.50	No
	5/16/2009	MW-05D	13.88	26.50 (d)	12.62	--	--
	6/21/2009	MW-05S	16.38	29.45 (d)	13.07	16.50	No
	6/21/2009	MW-05D	11.01	26.50 (d)	15.49	--	--
	7/20/2009	MW-05S	16.95	29.45 (d)	12.50	16.50	No
	7/20/2009	MW-05D	12.71	26.50 (d)	13.79	--	--
	8/10/2009	MW-05S	16.82	29.45 (d)	12.63	16.50	No
	8/10/2009	MW-05D	12.10	26.50 (d)	14.40	--	--
	9/7/2009	MW-05S	18.33	29.45 (d)	11.12	16.50	No
	9/7/2009	MW-05D	14.02	26.50 (d)	12.48	--	--
	10/10/2009	MW-05S	19.16	29.45 (d)	10.29	16.50	No
	10/10/2009	MW-05D	13.31	26.50 (d)	13.19	--	--
	11/28/2009	MW-05S	17.31	29.45 (d)	12.14	16.50	No
	11/28/2009	MW-05D	13.14	26.50 (d)	13.36	--	--
	12/31/2009	MW-05S	16.66	29.45 (d)	12.79	16.50	No
	12/31/2009	MW-05D	9.69	26.50 (d)	16.81	--	--

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	1/14/2010	MW-05S	14.89	29.45	(d) 14.56	16.50	No
	1/14/2010	MW-05D	11.81	26.50	(d) 14.69	--	--
	2/21/2010	MW-05S	14.71	29.45	(d) 14.74	16.50	No
	2/21/2010	MW-05D	10.63	26.50	(d) 15.87	--	--
	3/17/2010	MW-05S	13.53	29.45	(d) 15.92	16.50	No
	3/17/2010	MW-05D	11.63	26.50	(d) 14.87	--	--
	4/25/2010	MW-05S	16.11	29.45	(d) 13.34	16.50	No
	4/25/2010	MW-05D	12.26	26.50	(d) 14.24	--	--
	5/16/2010	MW-05S	16.14	29.45	(d) 13.31	16.50	No
	5/16/2010	MW-05D	14.97	26.50	(d) 11.53	--	--
	6/26/2010	MW-05S	17.07	29.45	(d) 12.38	16.50	No
	6/26/2010	MW-05D	15.20	26.50	(d) 11.30	--	--
	7/23/2010	MW-05S	17.73	29.45	(d) 11.72	16.50	No
	7/23/2010	MW-05D	15.31	26.50	(d) 11.19	--	--
	8/30/2010	MW-05S	15.58	29.45	(d) 13.87	16.50	No
	8/30/2010	MW-05D	12.01	26.50	(d) 14.49	--	--
	9/30/2010	MW-05S	14.32	29.45	(d) 15.13	16.50	No
	9/30/2010	MW-05D	12.83	26.50	(d) 13.67	--	--
	10/18/2010	MW-05S	15.52	29.45	(d) 13.93	16.50	No
	10/18/2010	MW-05D	15.58	26.50	(d) 10.92	--	--
	11/29/2010	MW-05S	15.14	29.45	(d) 14.31	16.50	No
	11/29/2010	MW-05D	10.32	26.50	(d) 16.18	--	--
	12/25/2010	MW-05S	13.03	29.45	(d) 16.42	16.50	No
	12/25/2010	MW-05D	9.02	26.50	(d) 17.48	--	--
	1/29/2011	MW-05S	13.29	29.45	(d) 16.16	16.50	No
	1/29/2011	MW-05D	11.80	26.50	(d) 14.70	--	--
	2/20/2011	MW-05S	13.22	29.45	(d) 16.23	16.50	No
	2/20/2011	MW-05D	14.33	26.50	(d) 12.17	--	--
	3/24/2011	MW-05S	13.15	29.45	(d) 16.30	16.50	No
	3/24/2011	MW-05D	9.11	26.50	(d) 17.39	--	--
	4/23/2011	MW-05S	12.78	29.45	(d) 16.67	16.50	Yes
	4/23/2011	MW-05D	16.44	26.50	(d) 10.06	--	--
	5/30/2011	MW-05S	13.40	29.45	(d) 16.05	16.50	No
	5/30/2011	MW-05D	16.18	26.50	(d) 10.32	--	--

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	6/26/2011	MW-05S	13.94	29.45	(d) 15.51	16.50	No
	6/26/2011	MW-05D	12.31	26.50	(d) 14.19	--	--
	7/30/2011	MW-05S	14.08	29.45	(d) 15.37	16.50	No
	7/30/2011	MW-05D	17.13	26.50	(d) 9.37	--	--
	8/8/2011	MW-05S	14.27	29.45	(d) 15.18	16.50	No
	8/8/2011	MW-05D	15.50	26.50	(d) 11.00	--	--
	9/24/2011	MW-05S	14.42	29.45	(d) 15.03	16.50	No
	9/24/2011	MW-05D	16.02	26.50	(d) 10.48	--	--
	10/29/2011	MW-05S	14.62	29.45	(d) 14.83	16.50	No
	10/29/2011	MW-05D	11.59	26.50	(d) 14.91	--	--
	11/26/2011	MW-05S	12.74	29.45	(d) 16.71	16.50	Yes
	11/26/2011	MW-05D	10.19	26.50	(d) 16.31	--	--
	12/26/2011	MW-05S	14.43	29.45	(d) 15.02	16.50	No
	12/26/2011	MW-05D	13.68	26.50	(d) 12.82	--	--
	1/28/2012	MW-05S	13.28	29.45	(d) 16.17	16.50	No
	1/28/2012	MW-05D	10.15	26.50	(d) 16.35	--	--
	2/26/2012	MW-05S	12.81	29.45	(d) 16.64	16.50	Yes
	2/26/2012	MW-05D	15.87	26.50	(d) 10.63	--	--
	3/7/2012	MW-05S	13.30	29.45	(d) 16.15	16.50	No
	3/7/2012	MW-05D	15.35	26.50	(d) 11.15	--	--
	4/21/2012	MW-05S	12.79	29.45	(d) 16.66	16.50	Yes
	4/21/2012	MW-05D	12.84	26.50	(d) 13.66	--	--
	5/19/2012	MW-05S	13.54	29.45	(d) 15.91	16.50	No
	5/19/2012	MW-05D	14.39	26.50	(d) 12.11	--	--
	6/30/2012	MW-05S	13.20	29.45	(d) 16.25	16.50	No
	6/30/2012	MW-05D	10.74	26.50	(d) 15.76	--	--
	7/27/2012	MW-05S	13.26	29.45	(d) 16.19	16.50	No
	7/27/2012	MW-05D	13.21	26.50	(d) 13.29	--	--
	8/12/2012	MW-05S	11.66	29.45	(d) 17.79	16.50	Yes
	8/12/2012	MW-05D	12.99	26.50	(d) 13.51	--	--
	9/30/2012	MW-05S	13.23	29.45	(d) 16.22	16.50	No
	9/30/2012	MW-05D	11.39	26.50	(d) 15.11	--	--
	10/24/2012	MW-05S	13.45	29.45	(d) 16.00	16.50	No
	10/24/2012	MW-05D	14.10	26.50	(d) 12.40	--	--

TABLE A-2
CUMULATIVE GROUNDWATER ELEVATIONS
CASCADE POLE SITE
PORT OF OLYMPIA, WASHINGTON

Well Pair	Collection Date	Well ID	Depth to Groundwater (ft) (a)	Top of Well Casing Elevation (MLLW)	Groundwater Elevation (MLLW) (a)	Maximum Elevation Goal (b)	Goal Exceeded?
	11/24/2012	MW-05S	11.57	29.45	(d) 17.88	16.50	Yes
	11/24/2012	MW-05D	10.2	26.50	(d) 16.3	--	--
	12/30/2012	MW-05S	12.23	29.45	(d) 17.22	16.50	Yes
	12/30/2012	MW-05D	12.05	26.50	(d) 14.45	--	--
	1/25/2013	MW-05S	10.55	29.45	(d) 18.90	16.50	Yes
	1/25/2013	MW-05D	13.13	26.50	(d) 13.37	--	--
	2/9/2013	MW-05S	10.16	29.45	(d) 19.29	16.50	Yes
	2/9/2013	MW-05D	13.60	26.50	(d) 12.90	--	--
	3/31/2013	MW-05S	13.61	29.45	(d) 15.84	16.50	No
	3/31/2013	MW-05D	16.55	26.50	(d) 9.95	--	--

MLLW = Mean low low water.

Groundwater elevations determined by subtracting depth to groundwater below top of casing (ft) from top of well casing elevation (MLLW, ft).

(a) Below top of PVC well casing.

(b) Short term hydraulic control goal is 15.5 ft along the majority of the cutoff wall alignment and 16.5 ft adjacent to Budd Inlet.

(c) Well LW-3 casing modified and re-surveyed January 2009. On 7/28/10 the well casing at LW-3 cut down 0.2 ft to make room for new well monument lid. Elevation was adjusted from 20.03 to 19.83.

(d) Wells MW-02s, MW-02d, MW-05s, and MW-05d were modified during construction activities and re-surveyed February 2009.

(e) MW-02D and MW-02S inner north rim elevations modified in September 2011.

(f) On 12/8/11 the inner well casing was cut down at MW-01D by 0.15'. Outer casing cut down corresponding amount. New MW-01D measuring point elevation is 21.72' MLLW.

NM = Not measured.

NA = Not available.