

**Table 1. Summary of On- and Off-Site Impacts
by Project Area, Creek Basin, Acreage, and Cowardin/HGM Classification**

Basin	Acres in Project Area	Project Area %	Acres Impacted by Project	% Project Area
<i>Miller Creek</i>				
PFO	24.11	37.65%	7.82	
PSS	12.29	19.19%	2.72	
PEM	20.90	32.64%	8.71	
POW/AB	6.73	10.51%	0.18	
TOTAL	64.03	100.00%	19.43	30.35%
Depressional	16.67	26.03%	2.01	
Riverine	15.27	23.85%	5.43	
Slope	32.09	50.12%	11.99	
TOTAL	64.03	100.00%	19.43	
<i>Walker Creek</i>				
PFO	10.57	28.21%	0.42	
PSS	17.62	47.02%	0.18	
PEM	5.94	15.85%	0.93	
POW/AB	3.34	8.91%	0.00	
TOTAL	37.47	100.00%	1.53	4.08%
Depressional	31.39	83.77%	0.99	
Riverine	3.00	8.01%	0.00	
Slope	3.08	8.22%	0.54	
TOTAL	37.47	100.00%	1.53	
<i>Des Moines Creek</i>				
PFO	7.48	14.15%	1.37	
PSS	23.24	43.97%	1.09	
PEM	14.61	27.64%	1.59	
POW/AB	7.53	14.25%	0.00	
TOTAL	52.86	100.00%	4.05	7.50%
Depressional	38.89	73.57%	2.00	
Riverine	6.34	11.99%	0.00	
Slope	7.63	14.43%	2.05	
TOTAL	52.86	100.00%	4.05	
<i>Green River</i>				
PFO	0.00	0.00%	0.00	
PSS	0.00	0.00%	0.00	
PEM	23.39	100.00%	23.39	
POW/AB	0.00	0.00%	0.00	
TOTAL	23.39	100.00%	23.39	100.00%
Depressional	23.39	100.00%	23.39	
Riverine	0.00	0.00%	0.00	
Slope	0.00	0.00%	0.00	
TOTAL	23.39	100.00%	23.39	

Table 2. Corps' Determination of On-Site Temporary Impacts

Wetland	Duration	Area (acres)	Vegetation Types (acres)		
			Forest	Shrub	Emergent
Considered Permanent by Corps					
Third Runway					
18	3 years	0.22	0.04	0.07	0.11
37	2 years	0.71	0.14	0.18	0.39
A12	3 years	0.03	0.00	0.03	0.00
A13	3 years	0.01	0.01	0.00	0.00
44a	3 years	0.28	0.18	0.10	0.00
SUBTOTAL		1.25	0.37	0.38	0.50
Considered Temporary by Corps and Port					
Runway Safety Area Extension					
4	1 years	0.20	0.20	0.00	0.00
5	1 years	0.20	0.10	0.10	0.00
Third Runway					
9	1 years	0.16	0.11	0.00	0.05
A1	1.5 years	0.05	0.01	0.01	0.03
R2	1 years	0.02	0.00	0.00	0.02
South Aviation Support Area					
52	2 years	0.17	0.00	0.05	0.12
SUBTOTAL		0.80	0.42	0.16	0.22
TOTAL		2.05	0.79	0.54	0.72

**Table 3. Details of On-and Off-Site Permanent and Temporary Impacts
by Project Area, Creek Basin, Acreage, and Cowardin/HGM Classification**

	Wetland	Classification (Palustrine)	Total Area (Acres)	Watershed Basin	HGM Class	Total Impacts	Permanent and Temporary Impacts (by Cowardin Class)			
							PFO	PSS	PEM	POW
MILLER CREEK BASIN										
Runway Safety Area/North Airfield										
	3	FO	0.56	Miller	Slope					
	4	FO	5.00	Miller	Slope	0.20	0.20			
	5	FO/SS (70/30)	4.63	Miller	Slope	0.34	0.17	0.17		
	6	SS	0.86	Miller	Slope					
	7	FO/OW/EM (30/50/20) ¹	6.68	Miller	Slope					
	8	SS/EM (80/20)	4.95	Miller	Slope					
	9	FO/ EM (40/60)	2.83	Miller	Slope	0.19	0.12		0.07	
	10	SS	0.31	Miller	Slope					
	11	FO/EM (80/20)	0.50	Miller	Slope	0.50	0.40		0.10	
	12	FO/EM (20/80)	0.21	Miller	Slope	0.21	0.04		0.17	
	13	EM	0.05	Miller	Slope	0.05			0.05	
	14	FO	0.19	Miller	Slope	0.19	0.19			
	15	EM	0.28	Miller	Slope	0.28			0.28	
	FW5	FW	0.08	Miller	Depression	0.08			0.08	
	FW6	FW	0.07	Miller	Depression	0.07			0.07	
	A1	FO/SS/EM	0.64	Miller	Riverine	0.64	0.10	0.10	0.44	
Subtotal in RSA/North Airfield			27.84			2.75	1.22	0.27	1.26	0.00

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Project Area	Wetland	Classification (Palustrine)	Total Area (Acres)	Watershed Basin	HGM Class	Total Impacts	Permanent and Temporary Impacts (by Cowardin Class)				
							PFO	PSS	PEM	POW	
Vacca Farm Mitigation/Relocation of Miller Creek											
	A1	FO/SS/EM (15/15/70)	4.02	Miller	Dep./Riv.	3.74	0.56	0.56	2.62		
	A2	SS	0.05	Miller	Depression	0.05		0.05			
	A3	SS	0.01	Miller	Depression	0.01		0.01			
	A4	SS	0.03	Miller	Depression	0.03		0.03			
	FW1	FW	0.03	Miller	Dep./Riv.	0.03			0.03		
	FW2	FW	0.09	Miller	Dep./Riv.	0.09			0.09		
	FW3	FW	0.59	Miller	Dep./Riv.	0.59			0.59		
	FW8	FW	0.03	Miller	Dep./Riv.	0.03			0.03		
	FW9	FW	0.01	Miller	Dep./Riv.	0.01			0.01		
	FW10	FW	0.02	Miller	Dep./Riv.	0.02			0.02		
	FW11	FW	0.11	Miller	Dep./Rip.	0.11			0.11		
	V1		0.01	Miller	Ditch						
	V2		0.01	Miller	Ditch						
	Lora Lake	OW	3.06	Miller	Depression						
Subtotal in Vacca Farm/Miller Creek			8.07			4.71	0.56	0.65	3.50	0.00	

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Project Area	Wetland	Classification (Palustrine)	Total Area (Acres)	Watershed Basin	HGM Class	Total Impacts	Permanent and Temporary Impacts (by Cowardin Class)				
							PFO	PSS	PEM	POW	
Riverine Wetlands											
	R1	EM	0.17	Miller	Riverine	0.13			0.13		
	R2	SS/EM (70/30)	0.12	Miller	Riverine	0.02			0.02		
	R3	SS	0.02	Miller	Riverine						
	R4	EM	0.11	Miller	Riverine						
	R4b	FO/EM (25/75)	0.11	Miller	Riverine						
	R5	EM	0.05	Miller	Riverine						
	R5b	FO/EM (25/75)	0.07	Miller	Riverine						
	R6	FO/EM (25/75)	0.21	Miller	Riverine						
	R6b	EM	0.09	Miller	Riverine						
	R7	FO/EM (25/75)	0.04	Miller	Riverine						
	R7a	EM	0.04	Miller	Riverine						
	R8	SS/EM (40/60)	0.40	Miller	Riverine						
	R9	FO	0.38	Miller	Riverine						
	R9a	FO/SS/EM (25/50/25)	0.74	Miller	Riverine						
	R10	SS	0.04	Miller	Riverine						
	R11	EM	0.42	Miller	Riverine						
	R12	FO	0.03	Miller	Riverine						
	R13	EM	0.12	Miller	Riverine						
	R14a	SS/EM (25/27)	0.13	Miller	Riverine						
	R14b	EM	0.08	Miller	Riverine						
	R15a	FO/SS/EM (25/65/10)	0.79	Miller	Riverine						
	R15b	FO/EM (25/75)	0.25	Miller	Riverine						
	R17	FO	0.31	Miller	Riverine						
	18(Riverine)	FO/SS/EM (50/20/30)	0.50	Miller	Riverine						
	37(Riverine)	FO/EM	1.75	Miller	Riverine	0.90	0.90				
Subtotal Riverine Wetlands			6.97			1.05	0.90	0.00	0.15	0.00	

**Table 3. Details of On-and Off-Site Permanent and Temporary Impacts
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	Wetland	Classification (Palustrine)	Total Area (Acres)	Watershed Basin	HGM Class	Total Impacts	Permanent and Temporary Impacts (by Cowardin Class)			
							PFO	PSS	PEM	POW
Third Runway Area (West Airfield/West Acquisition Area)										
	A5	EM	0.03	Miller	Depression	0.03			0.03	
	A6	FO	0.16	Miller	Slope	0.16	0.16			
	A7	FO	0.30	Miller	Slope	0.30	0.30			
	A8	FO/SS (30/70)	0.38	Miller	Slope	0.38	0.07	0.31		
	A9	SS	0.04	Miller	Slope					
	A10	SS	0.01	Miller	Depression					
	A11	SS	0.02	Miller	Depression					
	A12	SS	0.11	Miller	Slope	0.11		0.11		
	A13	FO	0.12	Miller	Slope	0.01	0.01			
	A14a and b	FO/SS/EM (50/25/25)	0.19	Miller	Slope					
	A15	EM	0.04	Miller	Slope					
	A16	SS/EM (20/80)	0.09	Miller	Slope					
	A17	FO/SS/EM (20/80)	2.66	Miller	Slope					
	A18	SS	0.01	Miller	Slope	0.01		0.01		
	A19	EM	0.04	Miller	Depression					
	A20	EM	0.34	Miller	Depression					
	16	EM	0.05	Miller	Depression	0.05			0.05	
	17	EM	0.02	Miller	Depression	0.02			0.02	
	18	FO/SS/EM (50/20/30)	3.06	Miller	Slope	3.06	1.32	0.82	0.92	
	19	FO	0.56	Miller	Slope	0.56	0.56			
	20	SS/EM (90/10)	0.57	Miller	Slope	0.57		0.51	0.06	
	21	FO	0.22	Miller	Slope	0.22	0.22			
	22	SS/EM (90/10)	0.06	Miller	Slope	0.06		0.01	0.05	
	W1	EM	0.10	Miller	Depression	0.10			0.10	
	W2	FO/EM (20/80)	0.22	Miller	Depression	0.22	0.04		0.18	
	35a-d	FO/EM (40/60)	0.67	Miller	Slope	0.67	0.27		0.40	
	37a-f	FO/EM (70/30)	3.98	Miller	Slope	3.92	2.10	0.18	1.64	
	39	FO/SS/EM (25/50/25)	0.90	Miller	Slope					
	40	SS	0.03	Miller	Depression	0.03		0.03		
	41a and b	EM/OW (60/40)	0.44	Miller	Depression	0.44			0.26	0.18
	Water A		0.09	Miller	Channel					
	Water B		0.03	Miller	Channel					
	Water C		0.01	Miller	Channel					
	Water D		0.16	Miller	Channel					
	Water W		0.03	Miller	Channel					
Subtotal Third Runway Area			15.74			10.92	5.05	1.98	3.71	0.18

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		Classification	Total Area	Watershed	HGM	Total	Permanent and Temporary			
							Impacts (by Cowardin Class)			
	Wetland	(Palustrine)	(Acres)	Basin	Class	Impacts	PFO	PSS	PEM	POW
WALKER CREEK BASIN										
Third Runway Area (West Airfield/West Acquisition Area)										
	43	FO/SS/EM/OW	33.43	Walker	Depression					
	23	EM	0.77	Walker	Depression	0.77			0.77	
	24	EM	0.14	Walker	Depression	0.14			0.14	
	25	FO	0.06	Walker	Depression	0.06	0.06			
	26	EM	0.02	Walker	Depression	0.02			0.02	
	44a and b	FO/SS (70/30)	3.08	Walker	Slope	0.54	0.36	0.18		
Subtotal Third Runway Area			37.50			1.53	0.42	0.18	0.93	0.00

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							PFO	PSS	PEM	POW
DES MOINES CREEK BASIN										
SASA (East Branch Des Moines Creek)										
	52	FO/SS/EM (80/20/20)	4.70	Des Moines	Slope/Dep.	0.71	0.54	0.05	0.12	
	53	FO	0.60	Des Moines	Depression	0.60	0.60			
	G1	EM	0.05	Des Moines	Slope	0.05		0.05		
	G2	EM	0.02	Des Moines	Slope	0.02			0.02	
	G3	EM	0.06	Des Moines	Slope	0.06			0.06	
	G4	EM	0.04	Des Moines	Slope	0.04			0.04	
	G5	EM	0.87	Des Moines	Slope	0.87			0.87	
	G6	EM	0.01	Des Moines	Slope					
	G7	FO/SS (30/70)	0.50	Des Moines	Slope	0.50	0.13	0.37		
	G8	EM	0.04	Des Moines	Slope					
	E1	FO	0.23	Des Moines	Slope					
	E2	FO	0.04	Des Moines	Slope	0.04	0.04			
	E3	FO	0.06	Des Moines	Slope	0.06	0.06			
Subtotal SASA			7.22			2.95	1.37	0.47	1.11	0.00

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Project Area	Wetland	Classification (Palustrine)	Total Area (Acres)	Watershed Basin	HGM Class	Total Impacts	Permanent and Temporary Impacts (by Cowardin Class)			
							PFO	PSS	PEM	POW
Borrow Sites (Mainstem Des Moines Creek)										
	32	EM	0.09	Des Moines	Depression					
	48	FO/EM (20/80)	1.58	Des Moines	Slope					
	B1	FO/SS (30/70)	0.27	Des Moines	Depression					
	B4	SS	0.07	Des Moines	Slope					
	B11	EM	0.18	Des Moines	Depression	0.18			0.18	
	B12	SS	0.63	Des Moines	Depression	0.07		0.07		
	B14	SS/EM (70/30)	0.78	Des Moines	Depression	0.78		0.55	0.23	
	B15 a & b	SS	2.05	Des Moines	Slope					
	Water S		0.01	Des Moines	Channel					
	51	FO	16.23	Des Moines	Riverine					
	29	FO	0.74	Des Moines	Slope					
	30	FO/SS (80/20)	0.88	Des Moines	Depression					
	B5	FO/SS (40/60)	0.08	Des Moines	Depression					
	B6	FO/SS (30/70)	0.55	Des Moines	Depression					
	B7	FO/SS (30/70)	0.03	Des Moines	Depression					
	B9a & b	FO	0.05	Des Moines	Depression					
	B10	FO	0.02	Des Moines	Depression					
Subtotal Borrow Sites			24.24			1.03	0.00	0.62	0.41	0.00

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	Wetland	Classification (Palustrine)	Total Area (Acres)	Watershed Basin	HGM Class	Total Impacts	Permanent and Temporary Impacts (by Cowardin Class)			
							PFO	PSS	PEM	POW
Tyee Valley Golf Course Mitigation Area/IWS Lagoon Area (West Branch Des Moines Creek)										
	28	SS/EM/OW (50/30/20)	35.45	Des Moines	Dep./Riv.	0.07			0.07	
	WH	OW	0.50	Des Moines	Depression					
	DMC	FO/SS/EM (15/15/70)	1.08	Des Moines	Riverine					
	IWS a& b	FO	0.67	Des Moines	Slope					
	G9	EM	0.16	Des Moines	Slope					
	G10	EM	0.53	Des Moines	Slope					
	G11	EM	0.12	Des Moines	Slope					
Subtotal Tyee Valley Mitigation			38.51			0.07	0.00	0.00	0.07	0.00

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	Wetland	Classification (Palustrine)	Total Area (Acres)	Watershed Basin	HGM Class	Total Impacts	Permanent and Temporary Impacts (by Cowardin Class)			
							PFO	PSS	PEM	POW
Auburn Mitigation Area										
	Auburn Area 1	EM	1.55	Green River	Depression	1.55			1.55	
	Auburn Area 2	EM	0.06	Green River	Depression	0.06			0.06	
	Auburn Area 3	EM	5.11	Green River	Depression	5.11			5.11	
	Auburn Area 4	EM	0.99	Green River	Depression	0.99			0.99	
	Auburn Area 5	EM	3.27	Green River	Depression	3.27			3.27	
	Auburn Area 6	EM	0.35	Green River	Depression	0.35			0.35	
	Auburn Area 7	EM	0.02	Green River	Depression	0.02			0.02	
	Auburn Area 8	EM	0.60	Green River	Depression	0.60			0.60	
	Auburn Area 9	EM	0.03	Green River	Depression	0.03			0.03	
	Auburn Area 10	EM	0.07	Green River	Depression	0.07			0.07	
	Auburn Area 11	EM	0.01	Green River	Depression	0.01			0.01	
	Ditches & FW	EM	2.20	Green River	Depression	2.20			2.20	
	Irr. & Planting	EM	9.13	Green River	Depression	9.13			9.13	
	Subtotal Auburn Mitigation Area		23.39			23.39	0.00	0.00	23.39	0.00
	GRAND TOTAL		189.48			48.40	9.52	4.17	34.53	0.18

¹ Includes area for Lake Reba.