Stormwater Outfall Inventory and Mapping City and Borough of Juneau

Date of field work: 5/08 -9/08

Purpose of Project:

The intent of the project was to inventory and assess existing outfalls along impaired waterbodies in the urbanized service area. These waterbodies include Duck Creek, Jordan Creek, Vanderbilt Creek, Lemon Creek and Pederson Hill Creek. Additional time and funding allowed for the inventory of outfalls along Gastineau Channel from Thane to the Mendenhall Valley and Douglas.

Summary of Work:

A technician for the City and Borough of Juneau (CBJ) located outfalls along streams using a handheld GPS and aerial photographs. Data sheets were filled out onsite recording information about the outfall and the contributing drainage area. The data was entered into ArcGIS using aerial photography to locate the outfall. Maps were created by CBJ staff in 2010.

How to Use the Report:

The numbers on the individual maps (1-105) identify specific outfalls throughout Juneau. Each number corresponds to a data entry for that outfall in the data tables. Photographs of each outfall were taken and these photos can be provided upon request. The outfall data is a shapefile with attribute data (including raster photo). This can be provided upon request also.

This inventory and assessment involved the best effort of one technician to field locate outfalls, there may be additional outfalls on these waterbodies that are not identified in this report.

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							Pipe				Inlet			
Site #	Map #	Water Body	Adjacent Streets	Type	Material	Condition	Condition	Diameter	Contamination	Water Quality	Description	COMMENTS	LATITUDE	LONGITUDE
	р	Vanderbilt	, ,	Pipe to						, , , , , , , , , , , , , , , , , , , ,		dead earthworms here and		
1	13	Creek	Vanderbilt Hill Rd.	ditch	Concrete		3/4 blocked	24		clear	Residential	downstream	58 20 926	134 29 586
		Vanderbilt					partially							
2	13	Creek	Vanderbilt Hill Rd	pipe	metal		blocked	0	hydrocarbons	clear			58 20.892'	134 29.713'
		Vanderbilt	Galcier HW &											
3	13	Creek	Short St.	Pipe	Concrete		Not Blocked	8	parking Lot	no water present	Commercial		N58 21.037	W134 29.494
		Vanderbilt	Glacier HW &		_			_						
4	13	Creek	Short St.	Pipe	Concrete		Not Blocked	8	parking Lot	no water present	Commercial	ditch coming from pipe downcut	N58 21.045	W134 29.489
_	40	Vanderbilt	Glacier HW & Short St.	Dina	0		Not Blocked		norting Lat		Commercial	ditab coming from nine undergut	NEO 04 040	W404 00 400
5	13	Creek	SHOIL St.	Pipe	Concrete		NOT BIOCKED	8	parking Lot garbage,	no water present	Commercial	ditch coming from pipe undercut	N58 21.042	W134 29.489
									hydrocarbons,					
		Vanderbilt							soapy look, sulfer					
6	13	Creek	Vanderbilt Hill Rd.	Ditch		Good			smell	turbid, iron floc	Industrial	comes from industrial area ditch	N58 20.878	W134 29.745
								- 00	hydrocarbons,			and the second second		
		Vanderbilt				wetland to			garbage, soapy			pollutants come from industrial		
7	13	Creek	Vanderbilt Hill Rd.	Ditch		ditch		60	look, sulfer smell	turbid, iron floc	Industrial	area, 4 outfalls	N58 20.878	W134 29.745
			Davis Ave and											
8	10	Lemon Creek	Churchill Way	Pipe	Plastic		Not blocked	14		no water present	Residential		N58 21.591	W134 29.507
9	8	Lemon Creek	City Gravel Pit	Pipe	Plastic		Not blocked	20		clear	Industrial		N58 21.949	W134 28.728
	_										Commercial	BMPs: Mitigate at source, if		
10	7	Duck Creek	Radcliffe Rd.	Pipe	Metal		Not blocked	36		no water present	(Airport)	nessesary.	N58 22.570	W134 35.858
4.4		Duals Creats	Glacier HW	Dina	Plastic		Not blooked	23			Chrook	sheet flow off street through storm drain	NEO 24 004	W424 25 244 Acc
11	О	Duck Creek	Giaciei nvv	Pipe	Plastic	Stabilized	Not blocked	23		no water present	Street Residential and	urain	N58 21.861	W134 35.311 Acc
12	6	Duck Creek	Glacier HW	Ditch		and grassy		36		no water present	commercial		N58 21.943	W134 35.421 Acc
12		Duck Oreck	Glacier HW and	Dittori		and grassy		30		no water present	Commercial		1430 21.343	W 134 33.421 ACC
			Mendenhall Loop								Residential and			
13	6	Duck Creek	Rd.	Pipe	Cement		Not blocked	11		no water present	commercial		N58 21.965	W134 35.429 Acc
			Mendenhall Loop											
			Rd. and Del Rae											
14	6	Duck Creek	Rd.	Pipe	Metal		Not blocked	19		no water present	Street	street storm drain	N58 22.042	W134 35.361 Acc
			Mendenhall Loop											
			Rd. and Del Rae								_			
15	6	Duck Creek	Rd.	Pipe	Plastic		Not blocked	23		no water present	Street	street storm drain	N58 22.061	W134 35.336 Acc
			Mendenhall Loop Rd and Hurlock								Residential and	deposition on ditch from pipe to		
16	6	Duck Creek	Ave.	Pipe	Plastic		1/8 blocked	23		no water present	commercial	creek bed	N58 22.097	W134 35.301 Acc
16	ь	Duck Cleek	Mendenhall Loop	ripe	riasiic		1/0 DIOCKED	23		no water present	Residential and	comes from storm drain on street	NOO 22.09/	W 134 35.301 ACC
17	6	Duck Creek	Rd. and Egan Dr.	Pipe	Plastic		Not blocked	30		no water present	commercial	and ditch	N58 22.147	W134 35.244 Acc
''		_ 40 51001	Mendenhall Loop	50	. 140110			30		water present	Residential and	comes from ditch alongside Egan		10-1 00.277 7.00
18	6	Duck Creek	Rd. and Egan Dr.	Pipe	Metal		Not blocked	96		no water present	commercial	Dr.	N58 22.231	W134 35.184 Acc
			Mendenhall Loop	i i										
			Rd. and James			Stabilized			garbage, and		Residential and	BMPs: Detention pond, or		
19	6	Duck Creek	Blvd.	Ditch		and grassy		84	hydrocarbons	iron floc	commercial	infiltration basin	N58 22.365	W134 35.079
			Mendenhall Loop											
20	5	Duck Creek	Rd. and Nancy St.	Pipe	Plastic		Not blocked	12		iron floc	Residential		N58 22.550	W134 34.647
6.1	^	Vanderbilt	O	Dir.	DI		Niet bie ein i	_		-1	Vanderbilt Creek			
21	9	Creek	Commercial Blvd	Pipe	Plastic		Not blocked	0		clear	itself			

							Pipe				Inlet			
Site #	Мар#	Water Body	Adjacent Streets	Type	Material	Condition		Diameter	Contamination	Water Quality	Description	COMMENTS	LATITUDE	LONGITUDE
		Vanderbilt		river								This is not an outfall, it is the	_	
22	9	Creek	Commercial Blvd	culvert	Plastic		Not blocked	0		clear		BMP for river		
23	11	Lemon Creek		pipe	Plastic		Not Blocked	28		no water present	Industrial		N58 21.296	W134 30.158
			Glacier HW and											
24	11	Lemon Creek		Ditch		Down-cut		60	garbage	turbid, mossy	Industrial		58 21.283N	134 30.199W
			Glacier HW, &											
25	11	Lemon Creek		Pipe	Plastic		Not blocked	22	garbage	clear	Residential	rocks, and grass, nice outfall	no reading	
00	4.4	Laman Craak	Davis Ave. and	Dina	Di		Not blooked	4.4		-1	Desidential	realize and gross nice sutfall		
26	11	Lemon Creek	Davis Ave and	Pipe	Plastic		Not blocked	14	garbage	clear	Residential	rocks, and grass, nice outfall rocks and grass and a little	not good accu	racy
27	10	Lemon Creek	Churchill Way	Pipe	Plastic		Not blocked	14	garbage	no water present	Residential	undercutting	N58 21.571	W134 29.547
21	10	Lemon Oreck	Davis Ave and	Прс	riasiic		140t blocked	14	garbage	no water present	residential	undereduing	1430 21.371	VV 134 29.341
28	10	Lemon Creek	Churchill Way	Pipe	Plastic		Not blocked	28	garbage	no water present	Residential		N58 21.588	W134 29.471
					. idolio				5	no water process			1100 211000	
29	8	Lemon Creek		Pipe	Metal		Not blocked	24		clear	Industrial	rocks and trees, looks good	N58 21.637	W134 29.030
				Two										
30	8	Lemon Creek	City Gravel Pit	Pipes	Metal and pl	astic	Not blocked	30		clear	Industrial	rocks and vegetation, looks good	N58 21.717	W134 21.831
31	8	Lemon Creek	City Gravel Pit	2 Pipes	Plastic and r	netal	Not blocked	0		clear	Industrial	rocks and grass, looks good	N58 21.717	W134 21.831
32	8	Lemon Creek	City Gravel Pit	Pipe	Plastic	0. 1.11. 1	Not blocked	20		clear	Industrial	rocks and vegetation	N58 21.949	W134 28.728
22	-	Duals Creats	Mendenhall Loop Rd.	Ditah		Stabilized		180			Commoraial		NEO 22 E04	W424 24 824
33	5	Duck Creek	Cinema Dr. and	Ditch		and grassy		180		no water present	Commercial		N58 22.594	W134 34.824
			Mendenhall Loop			Stabilized,					Residential and			
34	5	Duck Creek	Rd.	Ditch		grassy		60		no water present	commercial		N58 22.872	W134 34.647
		Duok Orock	Mendenhall Loop	Diton		gracoy		00		no water present	commercial		1400 22.072	VV 10-1 0-1.0-17
			Rd. and McGinnis			Stabilized,								
35	4	Duck Creek	Dr.	Pipe	Metal	grassy	Not blocked	12		no water present	Residential		N58 23.189	W134 34.492
			Sanders St. and											
36	4	Duck Creek	McGinnis Dr.	Pipe	Cement		Not blocked	30		no water present	Residential		N58 23.269	W134 34.500
			Sanders St. and			Stabilized,								
37	4	Duck Creek	McGinnis Dr.	Ditch		grassy		48		no water present	Residential		N58 23.325	W134 34.493
			Davis St. and											
38	11	Lemon Creek	Glacier HW Glacier HW and	Pipe	Plastic			24			Industrial	street drain outfall	N58 21.489	W134 29.842 Acc
20	6	lardon Crook	Cascade St.	Pipe	Metal		Not blocked	22			Residential,	could be street drainage, it is a	NEO 04 04E	W424 24 826 Acc
39	ь	Jordan Creek	Thunder Mountain		ivietai		NOT DIOCKED	22		no water present	commercial	big pipe	N58 21.845	W134 34.836, Acc
			Rd and											
			Mendenhall Loop			Muddy and			sediment,			heavy sediment load, revegetate		
40	2	Jordan Creek	Rd	Ditch		unstable.		20	hydrocarbons	no water present	Residential	area	N58 23.641	W134 33.251, Acc
		Gastineau	S. Franklin, and						,		Commercial,			,
41	19	Channel	Thane Rd.	Pipe	Plastic		Not blocked	6		no water present	street	Probably a parking lot drain	58 17.625	134 23.833, Accur
		Gastineau	S Franklin and							·				
42	19	Channel	Thane Rd.	Pipe	Metal		Not blocked	17		no water present	Street?	could be an old street drain	58 17.633	134 23.840, Accur
		Gastineau	S. Franklin St. and				1							
43	19	Channel	Thane Rd.	Pipe	Plastic		Not blocked	0		no water present	street	from street?	58 17.675	134 23.941, Accur

							Pipe				Inlet			
Site #	Map#	Water Body	Adjacent Streets	Туре	Material	Condition	Condition	Diameter	Contamination	Water Quality	Description	COMMENTS	LATITUDE	LONGITUDE
							Not blocked							
							(plastic), and							
	40	Gastineau		ъ.			damaged				00	street flow? Metal pipe	50.47.040	101 01 100 1
44	18	Channel		Pipes	plastic and n	netal	(metal)	24		no water present	Street?	functional?	58 17.812	134 24.120, Accu
45	40	Gastineau	Library and	D:	N4-4-1		Nine bin along	0.4			Nat arras		NICO 47 044	W40404004 A-
45	18	Channel	Franklin	Pipe	Metal		Not blocked	24		no water present	Not sure	street and creek runoff?	N58 17.844	W134 24.224, Acc
46	40	Gastineau	Marine Way and	Dina				0			Downtown	very his and underveter	NEO 17 007	W424 24 755 Ac
46	10	Channel Gastineau	Ferry Way Egan Dr, the Coast	Pipe	under water			U			Juneau	very big and underwater	N58 17.907	W134 24.755, Acc
47	10	Channel	Guard	Pipe				0			Street	under deck, not visible	N58 17.895	W134 24.792, Acc
47	10	Charmer	Trafalga and	ripe				U			Sileet	under deck, not visible	11.093	W 134 24.792, ACC
48	2	Jordon Crook	Thredneedle Sts.	Pipe				0		no water present	Street	goes into grassy ditch	N58 23.679	W134 33.159 Acc
40		Jordan Creek	Tilleurieeule 3ts.	ripe				U	sediment, organic	no water present	Sileet	goes into grassy ditch	N36 23.079	W 134 33. 139 ACC
			Hayes Way and						debris, garbage,					
49	5	Duck Creek	Tongass Blvd.	Pipe			1/8 blocked	10	hydrocarbons	iroc floc	Residential	stable ditch flow to pipes	N 58 22.848	W134 34.460
73		Buok Orcok	Nancy St, and	i ipo			170 blocked	10	nyarodarbono	II OC II OC	rtoolacritial	stable diterritow to pipes	14 30 22.040	W 104 04.400
			Mendenhall Loop											
50	5	Duck Creek	Rd.	Pipe		Not blocked		24		no water present	Residential	submerged	58 22.513	134 34.702 Accur
- 00		Duoit Oroon	El Camino St. and	pc		TTOT BIOCHOU				no mater procent	rtoordorna	casmorgoa	00 22.010	101011102710001
			Mendenhall Loop			Stable								
51	4	Duck Creek	Rd.	Ditch		vegetated		36	herbicide	no water present	Residential	resident is using Roundup in ditch	N 58 23.263	W134 34.388, Ac
	-		Aspen St, and			Stabilized,				The maner process		3		
52	3	Duck Creek	Pinewood Dr.	Ditch		grassy.		30		no water present	Residential		N58 23.469	W134 34.549, Acc
			Aspen Ave. and			,				'				·
53	3	Duck Creek	Pinewood Dr.	Pipe	Plastic		Not blocked	24	organic debris	turbid	Residential	new pipe, stable grass ditch	N58 23.464	W134 34.549, Acc
			Mendenhall Blvd	i i										*
54	3	Duck Creek	and Birch Lane	Pipe	Plastic		1/8 blocked	20	organic debris	turbid, iron floc	Residential	street drain to little settling pond	N58 23.559	W134 34.257, Acc
			Aspen St, and											
55	3	Duck Creek	Pinewood Dr.	Ditch				36		Iron floc	Residential		N58 23.533	W134 34.437
			Mendenhall Loop											
			Rd. and James								Residential,			
56	6	Duck Creek	Blvd.	Pipe			severely bent	12		turbid	commercial		N58 22.369	W134 35.013, Acc
		Sheep	Thane Rd, and											
			Sheep Cr											
57	20	eau Channel	Powerhouse Rd	Pipe	Metal		Not blocked	30		clear	Residential	comes from street ditches	N58 15.546	W134 19.396 Acc
		Gastineau	Thane Rd. and Mt.									probably from street and parking		
58	19	Channel	Roberts St.	Pipe	Metal		Not blocked	24		clear	Industrial	lot	N58 17.067	W134 23.253 Acc
		Gastineau	S. Franklin St. and	Din -	N4-4-1		Not ble -!!		buden on the		Commortiel	envise ship poddi I-t	NIEO 47 500	W404 00 707 :
59	19	Channel	Thane Rd.	Pipe	Metal		Not blocked	30	hydrocarbons	no water present	Commercial	cruise ship parking lot	N58 17.599	W134 23.787, Acc
00	40	Gastineau Channel	C Eropklin Ct	Dina	Matal		Not blooked		hydrogork and	no wotor	St. and parking	parking lot and street	NEO 47 500	W(404 00 707 A
60	19	Gastineau	S Franklin St. S. Franklin and	Pipe	Metal		Not blocked	30	hydrocarbons	no water present	lot	parking lot and street	N58 17.599	W134 23.787, Acc
61	10	Channel	Thane Rd.	Pipe	Metal		Not blocked	24		no water present	Street	looks like old street drain	NEO 17 604	W124 22 806 Acc
01	19	Peterson	Engineer Cutoff	Ditches	ivietai	Stabilized,	INOL DIOCKED	24		no water present	Residential,	IOONS IINE OIU STIEET UIAIII	N58 17.604	W134 23.806, Acc
62	4	Creek	Rd.	(two)		grassy		72		clear	street		N58 22.261	W134 37.500
02		OIGEN	rvu.	(two)		grassy		12	1	UCAI	Residential,	1	1130 22.201	VV 134 37.300
63	2	Duck Creek	Mendenhall Blvd.	Pipe	Plastic		Not blocked	16		no water present	street	pollutants not present	N58 23.545	W134 34.235. Acc
0.5	3	Duck Oreek	Mondellian biva.	, ipc	i idolio	Stabilized,	140t blocked	10		no water present	Residential,	pondicino noi present	1100 20.070	** 104 04.200, ACC
64	3	Duck Creek	Taku Blvd.	Ditch		grassy		36		no water present	street		N58 23.740	W134 34.046, Acc
04	3	Dack Cleek	rana Diva.	ווטווט	1	grassy	<u> </u>	30	I	no water present	311 CC1		1400 20.740	vv 134 34.040,

							Pipe				Inlet			
Site #	Map#	Water Body	Adjacent Streets	Type	Material	Condition	Condition	Diameter	Contamination	Water Quality	Description	COMMENTS	LATITUDE	LONGITUDE
		Gastineau		71										
65	17	Channel	Egan Dr., and	Pipe	Metal		Not blocked	72	garbage	clear		street drains		
		Gastineau	Egan Dr., and W.						hydrocarbons,			D&H has concerns with this		
66	17	Channel	Twelfth St.	Pipe	Cement		Not blocked	0	sediment	turbid	Street	outfall		
			Egan Dr. and											
		Gastineau	Harbor Office						street flow/natural		street and	water force moves manhole, 10'		
67	17	Channel	parking lot	Pipe	Cement		Not blocked	36	flow, high volume	clear	natural flow	drop	N58 18.248	W134 25.861, Acc
		Gastineau	Egan Dr, and						garbage, sediment,		street and			
68	17	Channel	Aurora Harbor	Pipe	Metal		Not blocked	0	hydrocarbons	clear	natural flow	high pressure flow, silt buildup		
		Gastineau	Channel Dr., and						Hydrocarbon			outfall underwater, natural and		
69	16	Channel	Egan Dr.					0	potential	clear	commercial	parking lot	N58 19.584	W134 27.886, Acc
		Gastineau									parking lot and			
70	16	Channel	Channel Dr.	Pipe	Plastic		Not blocked	22	hydrocarbons	clear	street		N58 19.628	W134 28.099, Acc
		Gastineau	Glacier HW & Wire											
71	15	Channel	St.	Pipe	Metal		Not blocked	24		clear	residential street	natural and street flow	N58 19.959	W134 28.377, Acc
		Gastineau	Glacier HW and											
72	15	Channel	Wire St.	Pipe	Metal		Not blocked	36		clear	residential street	natural and street flow	N58 20.056	W134 28.517, Acc
		Gastineau	Glacier HW and	ъ.										
73	15	Channel	Wire St.	Pipe	Metal		Not blocked	24		clear	residential street	natural and street flow	N58 20.073	W134 28.564, Acc
	4.5	Gastineau	Glacier HW and	D:	DI ()		4/0 -						1150 00 405	W40400 700 A
74	15	Channel	Wire St. Glacier HW and	Pipe	Plastic		1/2 blocked	30	sediment	clear	residential street	natural and street flow	N58 20.125	W134 28.702, Acc
75	15	Gastineau		Dina	Matal		Not blooked	24		alaar	residential street	notived and street flow	NEO 20 400	W424 20 074 Acc
75	15	Channel Gastineau	Blackerby St. Glacier HW and	Pipe	Metal		Not blocked	24		clear	residential street	natural and street flow	N58 20.188	W134 28.874, Acc
76	15	Channel	Blackerby St.	Pipe	Metal		Not blocked	30		clear	regidential etreet	natural and street flow	N58 20.212	W134 29.012, Acc
70	13	Gastineau	Glacier HW and	ripe	IVIELAI		NOT DIOCKED	30		Clear	residential street	natural and Street now	1030 20.212	VV 134 29.012, ACC
77	15	Channel	Blackerby St.	Pipe	Metal		Not blocked	24		clear	residential etreet	natural and street flow	N58 20.209	W134 28.976, Acc
- ''	13	Charine	Diackerby St.	ripe	IVICIAI		NOT DIOCKEU	24		Cicai	residerillar street	ilaturai and street now	1430 20.209	VV 134 20.970, ACC
		Falls												
		Creek/Gastin				Stabilized.			hydrocarbon					
78	25		N Douglas HW	Ditches		grassy		60	potential	no water present	street		N58 19.374	W134 28.904, Acc
		odd Oridinion	11 Douglao 1 111	Ditorioo		gracey			potornia	no water process	0001			1110120.001,7100
		Falls												
		Creek/Gastin				Stabilized,			hydrocarbon					
79	25		N Douglas HW	Ditches		grassy		60	potential	no water present	street		N58 19.374	W134 28.904, Acc
		Gastineau	Ü			Stabilized,			Hydrocarbon	,				·
80	25	Channel	N Douglas HW	Ditches		grassy		78	potential	no water present	street	no BMP's needed	N58 19.097	W134 28.384, Acc
		Gastineau				Stabilized,			Hydrocarbon	·				
81	25	Channel	N Douglas HW	Ditches		grassy	1	78	potential	no water present	street	no BMP's needed	N58 19.097	W134 28.384, Acc
		Eagle Creek/												
		Gastineau	N. Douglas HW by			Stabilized,			Hydrocarbon					
82	24	Channel	mobile homes	Ditch		grassy	1	84	potential	no water present	street		N 58 18.760	W134 27.599, Acc
		Grant Creek/												
		Gastineau				Stabilized,	1		Hydrocarbon					
83	24	Channel	N Douglas HW	Ditch		grassy		96	potential	no water present	street		N58 18.197	W134 27.031, Acc
							1							
		Grant					1							
		Creek/Gastin				Stabilized,	1		Hydrocarbon					
84	24	eau Channel	N Douglas HW	Ditch		grassy	1	96	potential	no water present	street		N58 18.197	W134 27.031, Acc

				1			Pipe				Inlet		1	
Sito # N	Man#	Water Body	Adjacent Streets	Туре	Material	Condition	Condition	Diameter	Contamination	Water Quality	7 1	COMMENTS	LATITUDE	LONGITUDE
Site # It	viap #	Gastineau	Glacier HW and	Type	Wateriai	Condition	Condition	Diameter	Contamination	Water Quanty	Description	COMMENTS	LATITUDE	LONGITUDE
85	1/	Channel	Blackerby St.	Pipe	Metal		Not blocked	30		clear	residential street	natural and street flow	N58 20.236	W134 29.254, Acc
0.0	17	Gastineau	Glacier HW and	i ipc	Wictai		140t blocked	30		Cicai	residential street	natural and street now	1430 20.230	W 134 23.234, ACC
86	11	Channel	Craig St.	Pipe	Metal		Not blocked	30		clear	recidential etreet	natural and street flow	N58 20.484	W134 29.508, Acc
00	14	Gastineau	W. end of float	ripe	iviciai		NOT DIOCKEU	30		Cicai	residential street	natural and street now	1430 20.404	W 134 29.300, ACC
87	7	Channel	plane runway	Pipe	Metal		Not blocked	26	hydrocarbons	no water present	airport	outfall for runway?	N58 21.410	W134 36.000, Acc
07		Gastineau	platie fullway	point	ivietai	Stabilized,	NOT DIOCKED	30	nyurocarbons	no water present	alipuit	outiali for furiway?	N36 21.410	W 134 30.000, ACC
88	27	Channel	N. Dougloo HW	source		grassy		60		clear	street	stable vegetated	N58 19.805	W134 35.588, 58'
00	21	Fish Creek/	N. Douglas HW	Source		grassy		60		Cleai	Sireet	stable vegetated	19.005	W 134 33.300, 30
		Gastineau				Stabilized,								
89	27	Channel	N. Douglas HW	Ditch		grassy		60		clear	street		N58 19.805	W134 35.588, Acc
69	21	Neilson	IN. Douglas HVV	DILCH		grassy		00		Clear	Sireet		19.003	W 134 33.366, ACC
		Creek/												
		Gastineau				Stabilized.			hydrocarbon					
90	26	Channel	N Douglas HW	Ditches		grassy		72	potential	no water present	street		N58 19.894	W134 29.982. Acc
90	20	Neilson	IN Douglas HVV	Ditches		grassy		12	potential	no water present	Sireet		1030 19.094	VV 134 29.962, ACC
		Creek/												
		Gastineau				Stabilized,			hydrocarbon					
91	26	Channel	N Douglas HW	Ditches		grassy		72	potential	no water present	street		N58 19.894	W134 29.982, Acc
91	20	Gastineau	IN Douglas I IVV	Dittiles		grassy		12	potential	no water present	Sireet		1430 13.034	W 134 29.902, ACC
92	17	Channel	Douglas HW	Pipe	Plastic		Not blocked	7		clear	residential	unclear as to source	N58 17.653	W134 25.692, Acc
32	- 17	Gastineau	Douglas 11VV	i ipc	i lastic		140t blocked	,		Cicai	residential	dicieal as to source	1430 17.033	W 134 23.032, ACC
93	17	Channel	Douglas HW	Pipe	Plastic		Not blocked	24	unclear source	clear	residential		N58 17.646	W134 25.687, Acc
33	17	Gastineau	Douglas I IVV	i ipc	i lastic		140t blocked	24	uncical source	cicai	residential		1430 17.040	VV 134 23.007 , ACC
94	23	Channel	Douglas HW	Pipe	Plastic		Not blocked	25	unclear source	clear	residential		N58 17.310	W134 25.013, Acc
		Gastineau	2 ouglao :	pc	. idolio		TTOT BIOCHOU		arroidar deared	orou.	rooidorida		1100 111010	11101201010,7100
95	23	Channel	Douglas HW	Pipe	Plastic		Not blocked	30	unclear source	clear	residential		N58 17.269	W134 24.925, Acc
		Gastineau												
96	23	Channel	Douglas HW	Pipe	Metal		Not blocked	30	unclear source	clear	residential		N58 17.248	W134 24.919, Acc
		Gastineau	Ĭ											,
97	23	Channel	Douglas HW	Pipe	Plastic		Not blocked	40	unclear source	clear	residential		N58 17.200	W134 24.754, Acc
		Gastineau												
98	22	Channel	2nd St.	Pipe	Plastic		Not blocked	12	unclear source	clear	residential		N58 16.925	W134 24.139, Acc
									source unclear but					
		Gastineau							could be yard and					
99	22	Channel	1st Street	Pipe	Plastic		Not blocked	7	street	clear	residential street		N58 16.817	W134 23.893, Acc
		Gastineau												
100	22	Channel	1st Street	Pipe	Plastic		Not blocked	24	hydrocarbons	clear	street		N58 16.720	W134 23.691, Acc
		Gastineau												
101	21	Channel	Savikko Rd.	Pipe	Cement		Not blocked	46	garbage	clear	street		N58 16.549	W134 23.422, Acc
		Gastineau									street? Source	perhaps a very old pipe, may not		
102	21	Channel	Savikko Rd.	Pipe	Metal		3/4 blocked	40	sediment	clear	not clear	be in use	N58 16.423	W134 23.167, Acc
		Lawson												
		Creek/											1	
		Gastineau	Douglas HW, and			Stabilized,			hydrocarbon			not a big problem due to stable		
103	23	Channel	Creek St.	Ditch		grassy		84	potential	clear	street	grassy ditch	N58 17.080	W134 24.644, Acc
1		Gastineau	Vista Drive and	L		Stabilized,			hydrocarbon			comes from neighborhood	l	
104	23	Channel	Douglas HW	Ditch		grassy		36	potential	no water present	streets	drainage	N58 17.183	W134 24.868, Acc
		Switzer				Stabilized,			hydrocarbon					
105	12	Creek	Glacier HW	Ditch		grassy		72	potential, sediment	turbid	street		N58 21.570	W134 30.525, Acc