INSPECTION REPORT --PEBBLE PROJECT--

Inspection Date: 7-8 July 2010

Weather: Breezy, occasional showers, 50-60°F

Operator Contact: Gernot Wober, PLP

Agency Personnel: Jim Vohden-DNR, Gay Harpole-ADEC, Kate Malloy-ADF&G **Inspection Objectives:** Site visit to Pebble Project to inspect additional unauthorized

water withdrawals not identified in the Settlement Agreement

dated 11 Feb 2010.

BACKGROUND

On 15-16 June 2010 an interagency team inspected 46 drill holes, identified in Attachment A of the Settlement Agreement dated 11 February 2010 between the State of Alaska and Pebble Limited Partnership ("PLP"). While preparing for the June 2010 field inspection it came to the attention of DNR that there had been other unauthorized withdrawals from water sources near an additional 19 drill holes that were not identified in the Settlement Agreement. This report addresses specifically these nineteen drill hole sites. There were nine unique water sources inspected to determine if any adverse environmental effects resulted from the unauthorized water withdrawals.

METHODS/LOGISTICS

A field inspection was carried out on 7 and 8 July 2010 where each of the nine identified water withdrawal sites was visited. Three State agencies took part in the inspection: the Alaska Departments of Fish & Game, Natural Resources, and Environmental Conservation. On this trip, the three representatives visited each site together along with a bear guard assigned by PLP.

The latitude and longitude of the drill holes and water sources were provided by PLP. These locations were plotted on maps prior to field work. GPS coordinates are in the NAD83 datum; site locations were recorded in decimal degrees. Coordinates were downloaded to handheld GPS units which were used to locate the sites in the field. Any drill holes visited were recorded as the number of the drill hole (i.e. 6789) whereas the analogous water source was recorded by adding a "W" after the drill hole number (i.e. 6789W). Dedicated helicopter support was provided by PLP.

At a given site, the helicopter would land in the proximity of the water source to be inspected. The coordinates would then be located on foot. Although the precise location of the majority of the water sources is not defined in the field with a stake or a monument, the GPS coordinates led us to seemingly appropriate water sources. Once the GPS location was determined in the field, photographs were taken and field observations were noted on the field form (Appendix C) with appropriate information to describe the site. Each field form includes the actual GPS coordinates from the location on the ground.

RESULTS/DISCUSSION

Nineteen new drill sites were initially identified for this inspection. Of these, eight utilized water sources which were evaluated during the June 2010 inspection and were therefore not revisited. (see Appendix A Table 2).

Additional background to Table 2:

- During the June 2010 inspection a specific finding on the water source for drill hole 8403 states: "No surface water source located here. This was found to be the location of drill hole 7365 which is capped with a nut and valve, indicative that the drill hole was used as the water source for drill hole 8403."
- The source of water for drill holes 7370, 7371, 7373, 7385, 7389, and 7393 is drill hole 7365 referenced above. The water source is groundwater and not surface water.

Of the remaining eleven drill sites, drill holes 7365 and 7382 drew water from the same source. Similarly, drill holes 7359 and 7369 also drew water from the same source. Thus there were nine unique water sources examined during this field inspection (see Appendix A Table 1).

The agency team spent one day in the field locating and documenting the water sources. Documentation included photographing the vicinity of the unauthorized water sources and field observations of the site conditions.

As with the first review of unauthorized withdrawal sites, the field personnel found no adverse environmental effects as a result of the unauthorized withdrawal of water at any of the sites. At most water source locations there was no indication of any site disturbance, and no visual indication that there was any more or any less water there than should be there naturally.

Specific findings:

- The source of water for drill hole 8405 is drill hole 6344 which is capped with a nut. The water source is groundwater, not surface water.
- The site of water withdrawals for drill holes 7387 and 7376 were at different locations on the same pond and were inspected as separate sites for the purpose of this field report. Drill holes 7359 and 7369 drew water from this same pond, but at a third location.

CONCLUSION

A field investigation was carried out on the water sources for 19 drill holes identified as supplementary to the February 2010 Settlement Agreement between the State and PLP. From this group of 19 drill holes, there were 11 drill holes with 9 unique water sources that had not been previously inspected. Several drill holes utilized the same water source. Field personnel from the Alaska Departments of Fish & Game, Natural Resources, and Environmental Conservation conclude that there do not appear to be any adverse environmental effects caused by the unauthorized water withdrawals.

Appendix A. Unauthorized water source locations and associated drillhole ID

Appendix A. Nineteen Drillholes not identifed in the 2010 Settlement Agreement that utilized water from unpermitted sources.

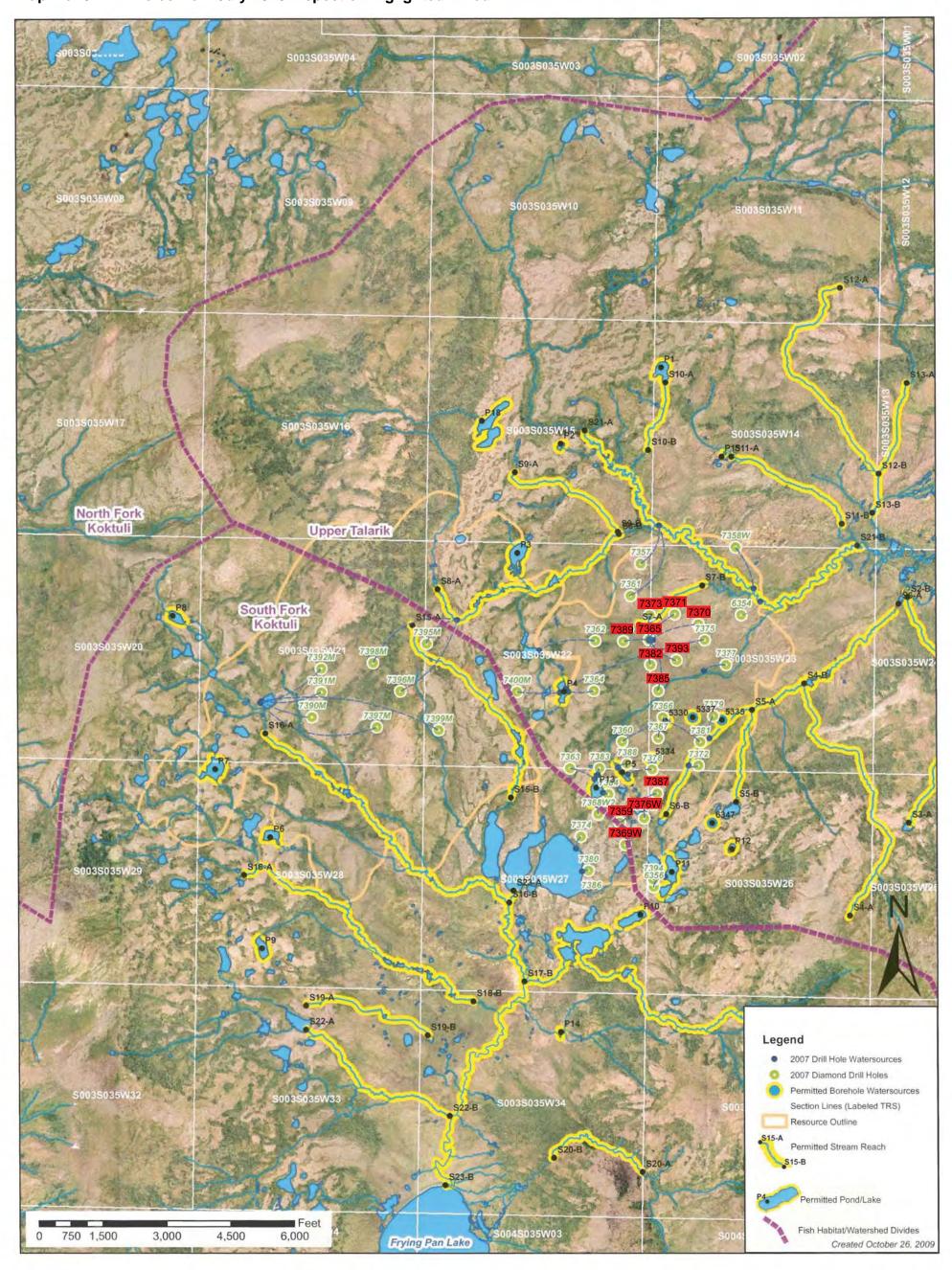
Table 1. Unauthorized water source locations and associated drillhole ID's inspected July 7-8, 2010.

Drilling Year and Drainage	Drillhole ID	Water Source Latitude (field location)	Water Source Longitude (field location)	Water Source Photos
2008 Upper Talarik	8406	59.90688N	155.25201W	Figures 1, 2, 3, 4
2007 Upper Talarik	7365	59.90347N	155.26168W	Figures 5, 6, 7, 8
2007 Upper Talarik	7382			
2008 Upper Talarik	8405	59.90098N	155.24762W	Figures 9, 10, 11
2008 Upper Talarik	8410	59.89692N	155.24843W	Figures 12, 13, 14, 15
2007 Upper Talarik	7387	59.89325N	155.26207W	Figures 16, 17, 18, 19
2007 Upper Talarik	7376	59.89253N	155.26242W	Figures 20, 21, 22, 23
2007 Upper Talarik	7359	59.89256N	155.26384W	Figures 24, 25, 26, 27
2007 Upper Talarik	7369			
2008 S. Fork Koktuli	8430	59.88559N	155.27748W	Figures 28, 29, 30, 31
2009 S. Fork Koktuli	9451	59.87320N	155.29503W	Figures 32, 33, 34, 35

Table 2. Additional unauthorized water source locations which were previously inspected as part of the 15-16 June 2010 site visit.

Drilling Year and Drainage	Drillhole ID	Water Source Latitude (field location)	Water Source Longitude (field location)	2010 Settlement Drillholes which used this same water source
2007 Upper Talarik	7370	59.90347N	155.26170W	8403
2007 Upper Talarik	7371			
2007 Upper Talarik	7373			
2007 Upper Talarik	7385			
2007 Upper Talarik	7389			
2007 Upper Talarik	7393			
2008 S. Fork Koktuli	8433	59.89522N	155.30097W	8431, 8432
2008 S. Fork Koktuli	9461	59.88987N	155.33177W	9457

Map 1 of 3: Drillholes from July 2010 inspection higlighted in red.

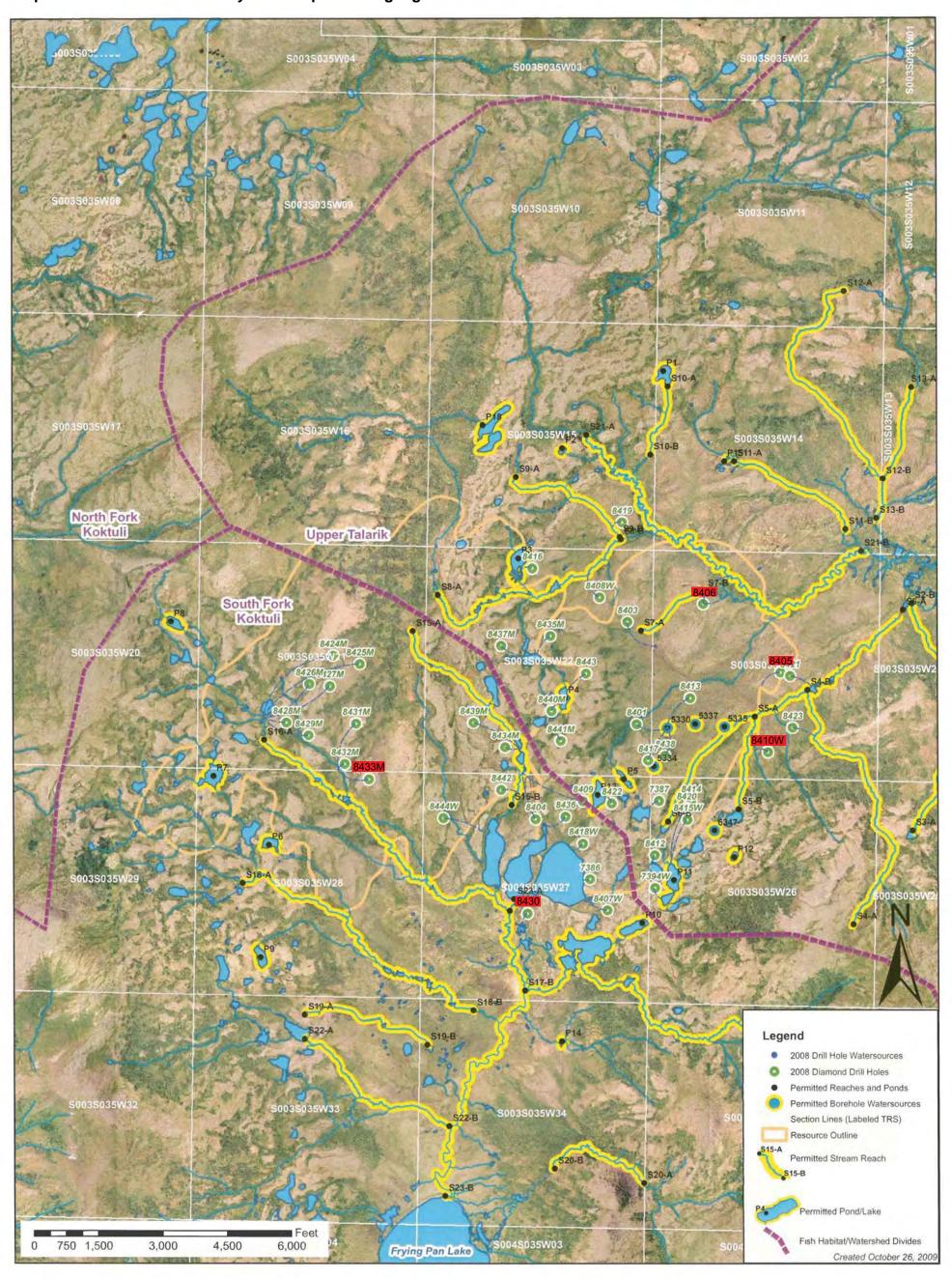




Pebble 2007 Diamond Drill Holes and Watersources

XXXX Unpermitted Water Sources / Drill Holes

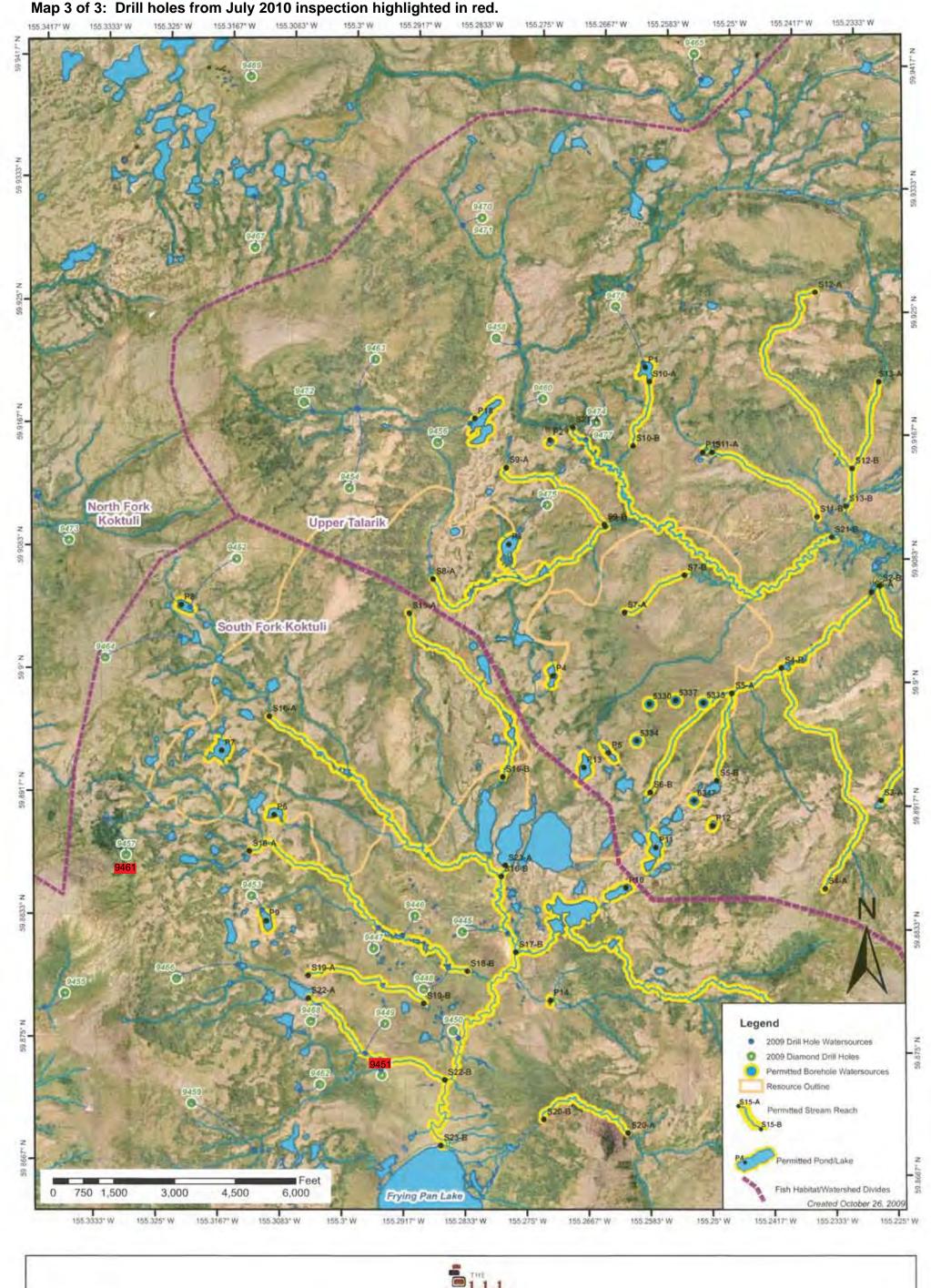
Map 2 of 3: Drillholes from July 2010 inspection highlighted in red.

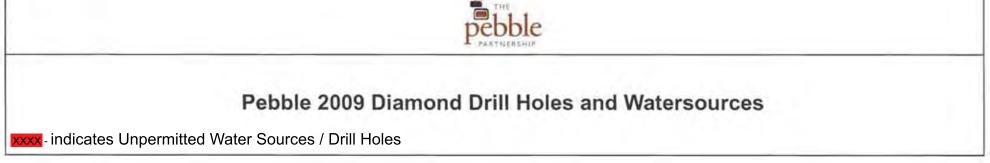




Pebble 2008 Diamond Drill Holes and Watersources

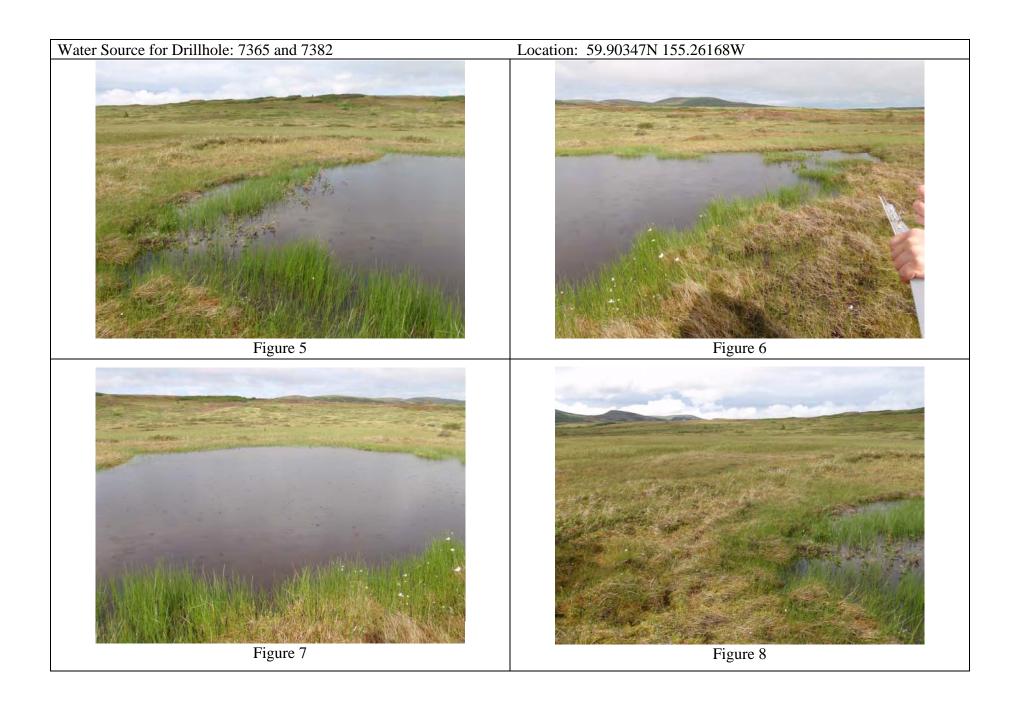
xxxx - Unpermitted Water Sources / Drill Holes

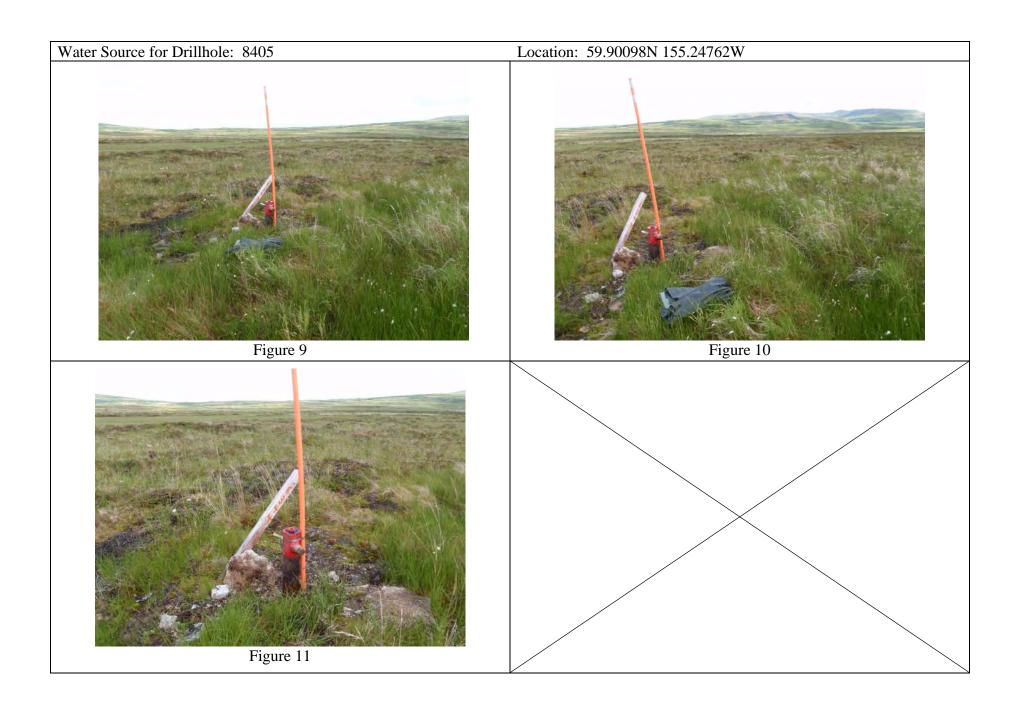


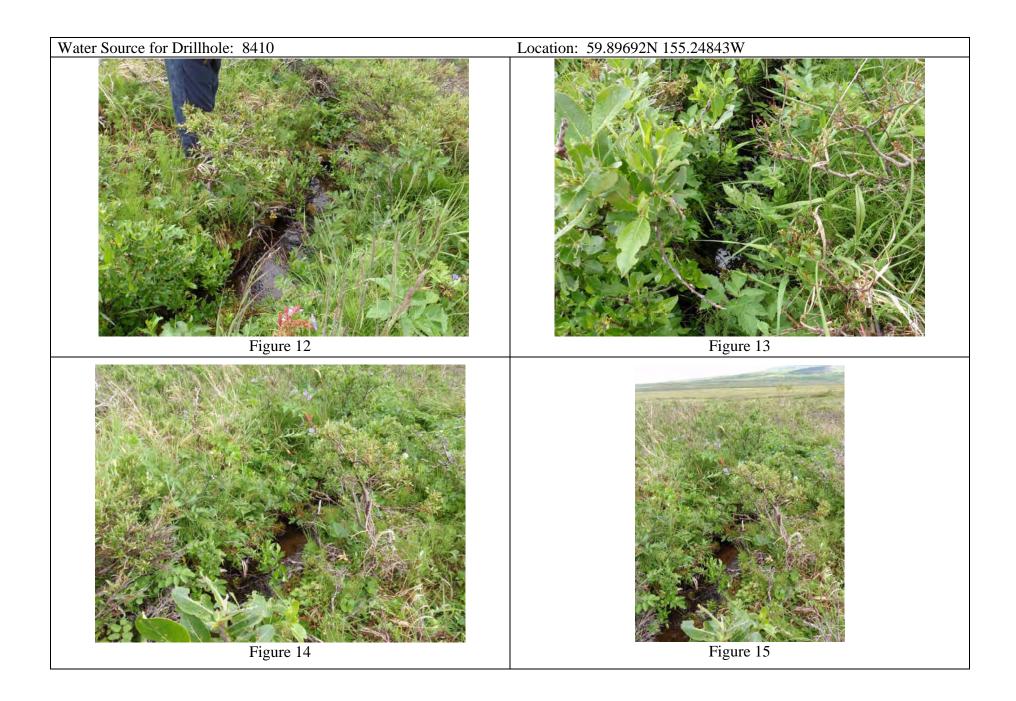


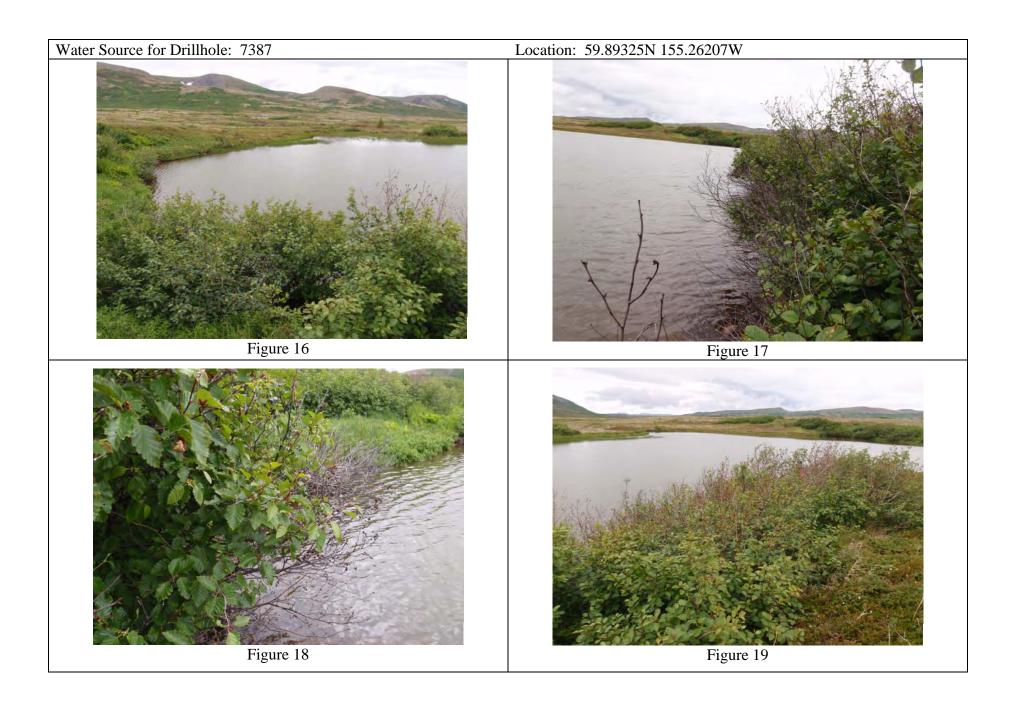
Appendix B
Photos from field reconnaissance of water source locations.
All GPS coordinates are reported in NAD83.

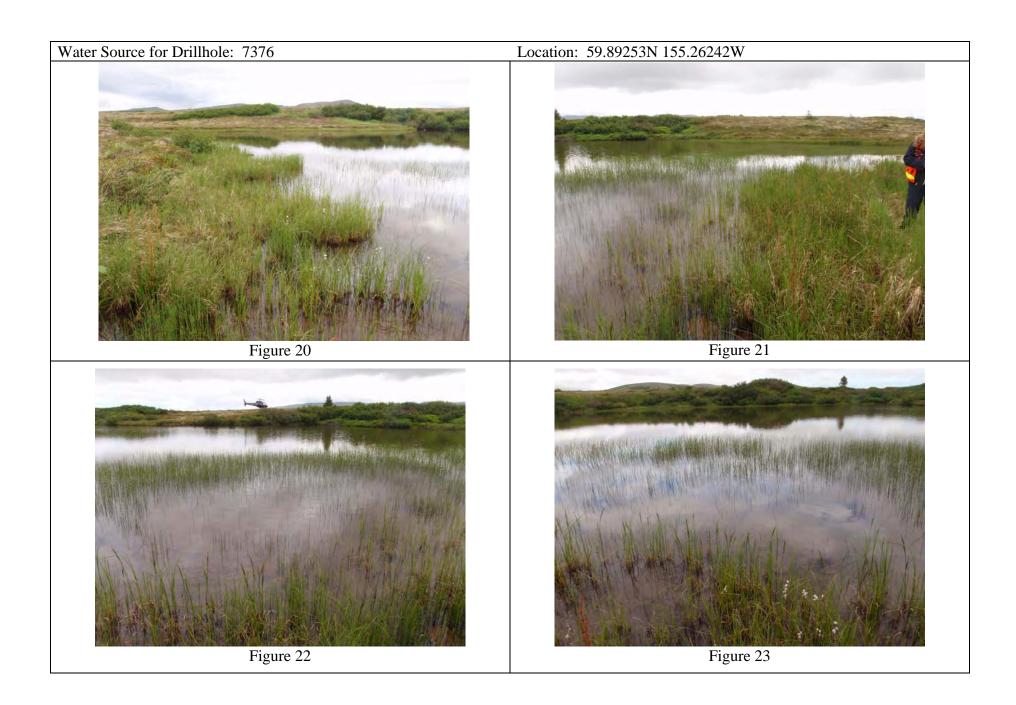


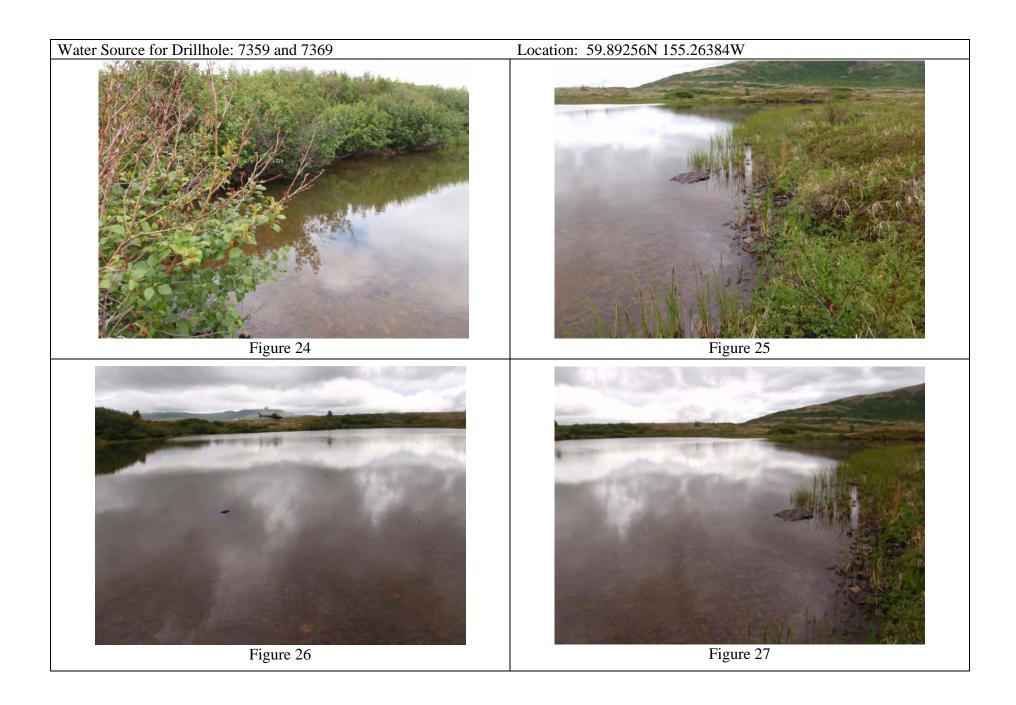


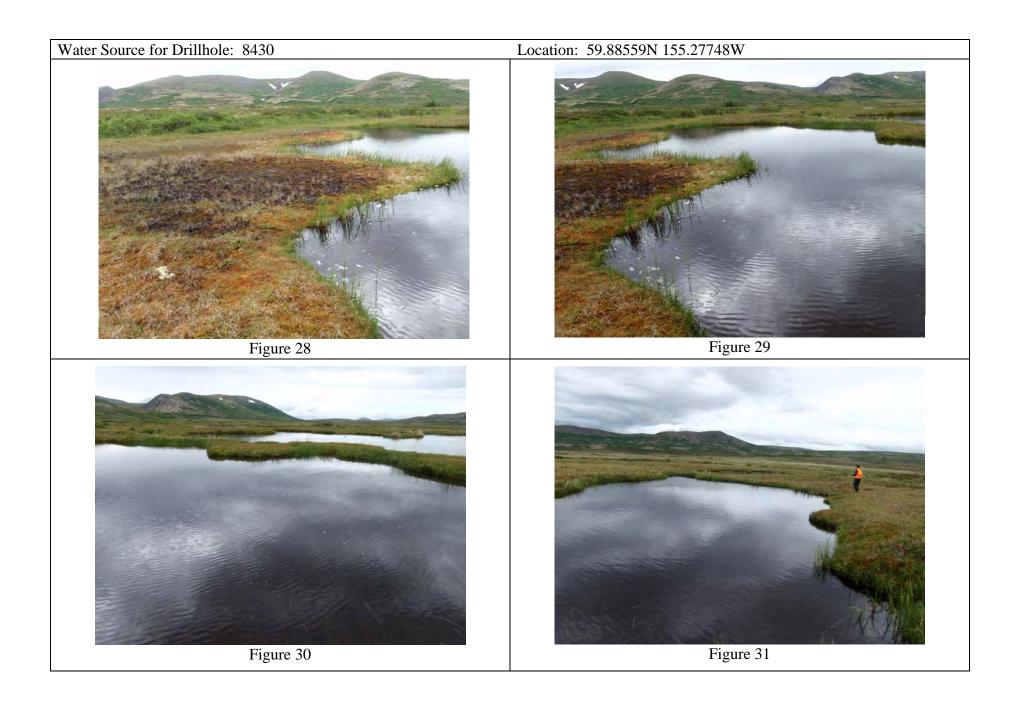














Appendix C. Field forms utilized during site inspections.

State of Alaska Pebble Project Unpermitted Water Withdrawals Site Inspection JULY يليne 2010 Field Form Circle appropriate items, add detailed text where necessary Drillhole #: 8406 101.37AM Today's Date: Time: pt cloudy Weather: sunny cloudy other (describe): light rain rain heavy rain calm > breezy windy gusty Location of drillhole (use decimal degrees) °W GPS lat/long: GPS datum (circle one): **WGS84** NAD27AK NAD83 other (specify): Location of actual water source 59,90688 · N 155,25201 GPS lat/long: NAD83 other (specify): GPS datum (circle one): **WGS84** NAD27AK Jim Vohden (ADNR) Ron Benkert (ADF&G) Field crew present: Kate Malloy (ADF&G) Stephanie Lovell (ADNR) Gay Harpole (DEC Kara Kusche (DEC) Site Observations < Drillhole comments Post/marker in place? No Yes-Is site reclaimed? Yes No Revegetation growing? No Yes Casing visible? Yes No Is site clean? Yes No Any evidence of spills or contamination? Yes No (if yes, explain in detail) Water Source Source description: flowing water other (specify): pond Approximate dimensions (diameter for pond, width and depth for flowing water): 344 00055 bushes other (specify): Vegetation at source vicinity: none grass`

Other Comments

Aquatic life at water source:

Any disturbance at water source?

(none seen

none

present (list)

Initial when complete:

State of Alaska Pebble Project Unpermitted Water Withdrawals Site Inspection ine 2010 Field Form Circle appropriate items, add detailed text where necessary Drillhole #: 7365 10:47AM Today's Date: 7/8/0Time: 7382 Weather: sunny other (describe): bt clouds cloudy light rain rain heavy rain windy calm breezy gusty Location of drillhole (use decimal degrees) GPS lat/long: NAD27AK GPS datum (circle one): **WGS84** NAD83 other (specify): Location of actual water source GPS lat/long: 59 90347 155,26168 W /NAD83 other (specify): GPS datum (circle one): WGS84 NAD27AK Jim Vohden (ADNR) Ron Benkert (ADF&G) Field crew present: Kate Malloy (ADF&G) Stephanie Lovell (ADNR) Kara Kusche (DEC) Gay Harpole (DEC) Site Observations Drillhole comments Post/marker in place? Yes No Is site reclaimed? Yes No Revegetation growing? No Yes Casing visible? Yes No Is site clean? Yes No Any evidence of spills or contamination? Yes No (if yes, explain in detail)

Water Source

Source description: (pond_ flowing water other (specify):

Approximate dimensions (diameter for pond, width and depth for flowing water): $\gtrsim 0 \times 50$

Vegetation at source vicinity: none grass bushes other (specify):

Aquatic life at water source: none seen present (list)

Any disturbance at water source?

Wh

State of Alaska Pebble Project Unpermitted Water Withdrawals Site Inspection JULY Circle appropriate items, add detailed text where necessary June 2010 Field Form Drillhole #: -Time: 11:01AM ot cloudy other (describe): Weather: sunny cloudy light rain rain heavy rain calm. gusty breezy windy Location of drillhole (use decimal degrees) GPS lat/long: **WGS84** NAD27AK NAD83 other (specify): GPS datum (circle one): Location of actual water source GPS lat/long: 59.90098 ° N 155, 747 67 °W NAD27AK MAD83 other (specify): GPS datum (circle one): √WGS84 Jim Vohden (ADNR) Field crew present: Ron Benkert (ADF&G) Kate Malloy (ADF&G) Stephanie Lovell (ADNR) Gay Harpole (DEO) Kara Kusche (DEC) Site Observations Drillhole comments Post/marker in place? No Yes Is site reclaimed? No Yes No Revegetation growing? Yes Casing visible? Yes No Is site clean? Yes No Any evidence of spills or contamination? Yes No (if yes, explain in detail) Water Source other (specify): 1 ANDL Source description: pond flowing water Approximate dimensions (diameter for pond, width and depth for flowing water): Vegetation at source vicinity: grass) bushes other (specify): none Aquatic life at water source: none seen present (list) Any disturbance at water source? none

Other Comments

Concrete/bentonite around well site, a little messter than others, some dead veg.

Pebble Project Unpermitted Water Withdrawals Site Inspection Circle appropriate items, add detailed text where necessary	ליטט שאבת 2010 Field Form
Drillhole #: 8410 Today's Date: 7/8/10	Time: 11'(\AM
Weather: sunny pt cloudy cloudy other (describe): light rain rain heavy rain calm breezy windy gusty	
Location of drillhole (use decimal degrees)	
GPS lat/long:° N°W	
GPS datum (circle one): WGS84 NAD27AK NAD83 oth	ner (specify):
Location of actual water source	
GPS lat/long: <u>59.84692</u> • N <u>155.24843</u> •W	
GPS datum (circle one): WGS84 NAD27AK (NAD83 other	r (specify):
Field crew present: Ron Benkert (ADF&G) Stephanie Lovell (ADNR) Kate Malley Gay Harpole (DEC) Kara Kusch	/-(ADF&G)
<u>Drillhole</u> <u>comments</u>	
Post/marker in place? Yes No Is site reclaimed? Yes No	
Is site reclaimed? Yes No Revegetation growing? Yes No	
Casing visible? Yes No	
Is site clean? Yes No	
	ain in detail)
Water Source Source description: pond flowing water other (specify): Approximate dimensions (diameter for pond, width and depth for flowing	water): IFfacross
Vegetation at source vicinity: none grass bushes other (speci	
Aquatic life at water source: none seen present (list)	ry): 6º dep
Any disturbance at water source?	MIX et 26h.

State of Alaska

Pebble Project Unpermitted Water Withdrawals Site Inspection

Circle appropriate items, add detailed text where necessary

ปังเว่ June 2010 Field Form

Drillhole #: $\eta_3 8 \eta$ Today's Date: η_8 / δ Time: $11'.26 AM$
Weather: sunny pt cloudy other (describe): light rain rain heavy rain calm breezy windy gusty
Location of drillhole (use decimal degrees)
GPS lat/long:° N°W
GPS datum (circle one): WGS84 NAD27AK NAD83 other (specify):
Location of actual water source
GPS lat/long: <u>59.89325</u> · N <u>155.26207</u> ·W
GPS datum (circle one): WGS84 NAD27AK NAD83 other (specify):
Field crew present: Ron Benkert (ADF&G) Jim-Vohden (ADNR) Stephanie Lovell (ADNR) Kate-Malloy (ADF&G)
Gay Harpole (DEC) Kara Kusche (DEC) Site Observations
<u>Drillhole</u> <u>comments</u> Post/marker in place? Yes No
Is site reclaimed? Yes No
Revegetation growing? Yes No
Casing visible? Yes No
Is site clean? Yes No
Any evidence of spills or contamination? Yes No (if yes, explain in detail)
Water Source Source description: pond flowing water other (specify):
Approximate dimensions (diameter for pond, width and depth for flowing water): 2504 × 1004 Vegetation at source vicinity: none grass bushes other (specify):
Vegetation at source vicinity: none grass bushes other (specify): Aquatic life at water source: none seen present (list)
Any disturbance at water source?
Any disturbance at water source:
Other Comments

State of Alaska Pebble Project Unpe

Pebble Project Unpermitted Water Withdrawals Site Inspection

Circle appropriate iter	ns, add detailed	d text where	necessary

June 2010 Field Form

Drillhole #: 7376	Today	y's Date:	7/8/1	Ó	Time:	11:34 AM
light rain		oudy ry rain gusty	other (de	escribe):		
Location of drillhole (use	decimal degree:	<u>s)</u>				
GPS lat/long:	0	N		°W		
GPS datum (circle		NAD2	7AK NAD)83 otl	ner (speci	fy):
Location of actual water	source				•	
GPS lat/long: <u>59</u> .	89 253	N 155	. 26242	°W		
GPS datum (circle	one): WGS84	NAD27	AK (NAÉ	083 othe	er (specify	/):
Field crew present:	Ron Benkert (Al Stephanie Love Gay Harpole (D	II (ADNR)	(Ka	ate Mallo	n (ADNR) y (ADF&C	3)
Site Observations		in the second se				
<u>Drillhole</u> Post/marker in place?	Yes No		comm	<u>ients</u>		
Is site reclaimed?	Yes No					
Revegetation growing?	Yes No					
Casing visible?	Yes No					
Is site clean?	Yes No					
Any evidence of spills or	contamination?	Yes	No (if	yes, expl	lain in det	ail)
	ond flowing v		her (specif	• /		
Approximate dimensions	(diameter for po	nd, width a	nd depth fo	r flowing	water): _	2009 × 7044
Vegetation at source vici				ner (spec		
Aquatic life at water sour	ce: none see	pres	ent (list)		•	
Any disturbance at water	source?					
Other Comments			tani.			

Same pond as 7387 but omerside

Circle appropriate items, a	add detailed te	ext where nece	ssary	Jul Jul	ร <mark>ี้e 2010 Field Fo</mark>
Drillhole #: 7369	7359	Гoday's Date:	7/8/1	6 Time	e: 11:39AM
light rain		cloudy heavy rain rindy gus	other (des	scribe):	
Location of drillhole (use	e decimal de	grees)			
GPS lat/long:		° N		°W	
GPS datum (circle	one): WG	SS84 NAC	27AK NAD8	33 other (s	specify):
<u>Location of actual water</u>	source				
GPS lat/long: _5		° N	55,26384	°W	
GPS datum (circle	one): WG	S84 NAD	27AK NAD8	3 other (sp	ecify):
Field crew present:	Ron Benke Stephanie I	rt (ADF&G) _ovell (ADNR		Vohden (AD	. 1
	Gay Harpol	e (DEC)	Kar	a Kusche (D	EC)
Site Observations			,		
<u>Drillhole</u> Post/marker in place?	Yes No		comme	<u>ents</u>	,
Is site reclaimed?	Yes No				
Revegetation growing?	Yes No				
Casing visible?	Yes No	,			
Is site clean?	Yes No	•			
Any evidence of spills or		on? Ye	s No (if ye	es, explain ir	n detail)
M-6 O			` '		•
<u>Water Source</u> Source description: (p	ond flow	ing water	other (specify)	· ·	
Approximate dimensions		•			r): 200/4×700
Vegetation at source vici				er (specify):	.,. <u>555., t</u>
Aquatic life at water sour	` >		esent (list)		
Any disturbance at water	(∠			
	•				
Other Comments					

Pebble Inspection Report 7-8 July 2010 Page 25 of 27 Initial when complete:

State of Alaska Pebble Project Unpermitted Water Withdrawals Site Inspection วับไป June 2010 Field Form Circle appropriate items, add detailed text where necessary Today's Date: 7 |8 | 16 Drillhole #: 8430 11:55AM Time: pt cloudy other (describe): Weather: cloudy sunnv heavy rain light rain rain calm) windy breezy gusty Location of drillhole (use decimal degrees) GPS lat/long: GPS datum (circle one): **WGS84** NAD27AK NAD83 other (specify): Location of actual water source GPS lat/long: 59 88559 NAD83 other (specify): GPS datum (circle one): **WGS84** NAD27AK Jim Vohden (ADNR) Ron Benkert (ADF&G) Field crew present: Kate Malloy (ADF&G) Stephanie Lovell (ADNR) Gay Harpole (DEC) Kara Kusche (DEC) Site Observations Drillhole comments Post/marker in place? No -Yes Is site reclaimed? Yes No Revegetation growing? No Yes Casing visible? Yes No Is site clean? Yes No Any evidence of spills or contamination? Yes No (if yes, explain in detail) Water Source Source description: flowing water other (specify): pond) Approximate dimensions (diameter for pond, width and depth for flowing water): 50×300f Vegetation at source vicinity: none (drass bushes other (specify): present (list) waterford character Aquatic life at water source: none seen Any disturbance at water source?

Pebble Project Unpermitted Water Withdrawals Site Inspection Circle appropriate items, add detailed text where necessary June 2010 Field Form
Drillhole #: 9451 Today's Date: 7/8/10 Time: 12:04 pm
Weather: sunny pt cloudy cloudy other (describe): light-rain rain heavy rain calm breezy windy gusty
Location of drillhole (use decimal degrees)
GPS lat/long:° N°W
GPS datum (circle one): WGS84 NAD27AK NAD83 other (specify):
Location of actual water source
GPS lat/long: <u>59.87320</u> • N <u>155.29503</u> •W
GPS datum (circle one): WGS84 NAD27AK NAD83 other (specify):
Field crew present: Ron Benkert (ADF&G) Stephanie Lovell (ADNR) Gay Harpole (DEC) Site Observations Drillhole Post/marker in place? Is site reclaimed? Revegetation growing? Yes No Revegetation growing? Yes No Is site clean? Ron Benkert (ADF&G) Kate Malloy (ADF&G) Kara Kusche (DEC) Site Observations Yes No Is site reclaimed? Yes No Yes No
Any evidence of spills or contamination? Yes No (if yes, explain in detail)
Water Source Source description: pond flowing water other (specify): Approximate dimensions (diameter for pond, width and depth for flowing water): Vegetation at source vicinity: none grass bushes other (specify): Aquatic life at water source: none seen present (list) Any disturbance at water source?