

**Fischer, Alex**

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**From:** Brian Goodnough [bgoodnough@cbmainc.com]  
**Sent:** Friday, August 20, 2010 9:42 AM  
**To:** Fischer, Alex  
**Subject:** NFL: Breeze Reclamation  
**Attachments:** Surface Use Agreement.pdf; NFL\_OT\_08-27-2009\_Evaporation\_Pond\_Monitoring\_SP.pdf;  
NFL\_OT\_04\_29\_2010\_Evapoartion Pond Monitoring.pdf

Alex:

I have attached a copy of the Surface Use Agreement between North Finn and Harold Earle. I did not have a signed copy at this time, but I have requested the signed copy of the document. The second attachment is the sample results from the initial sampling of the 10 evaporation ponds collected on 8/27/2009. The third attachment is the resampling of Ponds 5, 6, 8, and 9 collected on 04/29/2010. We transferred water from Pond 1 into Ponds 5 and 6 and then transferred water from Pond 10 into Ponds 8 and 9.

Please let me know how the Thursday on-site visit went with P & A of the wells and if you have any concerns or issues with on-site activities.

Thanks,

Brian Goodnough  
InterTech E&E A CBMA Inc. Company  
Environmental Management  
3821 Beech Street  
Laramie, WY 82070  
Office: 307-742-4991  
Cell: 307-680-9633  
Fax: 307-745-1582  
[bgoodnough@cbmainc.com](mailto:bgoodnough@cbmainc.com)



North Finn, LLC  
950 Stafford  
Casper, WY 82609

1-307-237-7854  
FAX 307-237-7628

Earle Construction Inc.  
785 Valley View Dr.  
Craig, Co. 81625

RE: Surface Reclamation of North Finn's  
Properties at Breeze CBM Project  
Routt County, Colorado

Attention: Mr. Harold Earle

Dear Harold,

I finally received a very long document from the lawyers. I had to do a lot of changes to it to make it look like the deal I think we agreed to. Please look it over and make any changes and then send the changes back to me and I will incorporate them into the agreement.

Of course the big one for us is getting the approval letter from the Colorado Oil and Gas Commission giving the responsibility of the evaporation pits to you. We feel we have a verbal understanding of what the commission wants and right now we are just waiting on the water analysis from each pit to come back from the lab. Once we have that then hopefully we can get the letter from the commission for the transfer. In the mean time, hopefully, we can finish this agreement.

If you have any questions please let me know. I hope you got the daily drilling reports on the #11-17 well. It appears they had 2 very substantial water flows in that well.

Good luck with you project.

Sincerely,

Wayne Neumiller

## CONVEYANCE AND RECLAMATION AGREEMENT

This Conveyance and Reclamation Agreement ("Agreement") is entered into between North Finn Limited Liability Company, a Wyoming limited liability company authorized to conduct business in Colorado, whose address is 950 Stafford, Casper, WY 82609 ("North Finn") and Wilton Earle & Sons, a Colorado partnership, whose address is 97751 East Highway 40, Craig, CO 81625 ("Earle") (collectively, the "Parties"), effective on the \_\_\_ day of \_\_\_\_\_, 2009 ("Effective Date").

### I. RECITALS:

A. WHEREAS, Earle is the owner of certain lands located in Routt County, Colorado, more particularly described on Exhibit A hereto ("Subject Lands");

B. WHEREAS, North Finn is the operator of gas wells on portions of the Subject Lands, and other lands, for gas production;

C. WHEREAS, the use of the surface estate of the Subject Lands is governed by: (i) that certain Access and Surface Use Agreement dated November 2, 2000, between KLT Gas Operating Company ("KLT") and Earle and (ii) that certain Evaporation Ponds and Surface Lease dated effective September 15, 2001, between KLT and Earle (collectively, "SUAs");

D. WHEREAS, North Finn has succeeded to all right, title and interest of KLT with respect to the SUAs;

E. WHEREAS, North Finn is in the process of terminating its oil and gas activities on the Subject Lands:

F. WHEREAS, in order to so terminate its oil and gas operations on the Subject Lands, North Finn must adhere to the terms of the SUAs and applicable local, state and federal law;

G. WHEREAS, Earle intends to: (i) use ten (10) existing produced water evaporation pits located on the Subject Lands for the purpose of fish farming or any other uses by Earle, the location and size of which are more particularly described on Exhibit B hereto (individually each a "Pit," and collectively, "Pits"); (ii) use two (2) existing, non-producing wells for the purpose of water wells, the locations and names of which are more particularly described on Exhibit D hereto (individually each a "Water Well," and collectively, "Water Wells"); and (iii) accept all liability, responsibility, and obligation concerning the Pits and Water Wells.

H. WHEREAS, North Finn desires to compensate Earle to undertake and be solely responsible for North Finn's local, state and federal responsibilities with respect to the abandonment and/or reclamation of the Pits and Water Wells and to be fully and completely released from the SUAs.

### II. AGREEMENT:

NOW THEREFORE, in consideration of the mutual covenants, agreement and consideration set forth herein, the Parties stipulate and agree as follows:

1. Conveyance. North Finn hereby quitclaims all of its right, title and interest in the Subject Lands, insofar as such real and personal property interests relate to the Pits and Water Wells, to Earle. This conveyance shall inure to the benefit of the Parties' respective heirs, successors and assigns, but is made without any warranty of title, express or implied. Upon execution of this Agreement, Earle shall be deemed to be the successor in interest and assignee of North Finn for all purposes concerning its interests in the Subject Lands, insofar as such interests are associated with or relate to the Pits and Water Wells.

2. Acceptance of Liability for Pits and Water Wells; Indemnity. Earle, along with its heirs, successors and assigns, hereby accepts the conveyance of interests in the Subject Lands, Pits and Water Wells set forth herein, along with all rights, duties, obligations, liabilities, and responsibilities associated with the ownership and use thereof, including the obligation to comply with all local, state and federal statutes, rules, regulations and law concerning the use, condition, maintenance, lease, sale, reclamation and/or other matter concerning the Subject Lands, Pits and Water Wells, including but not limited to, the constitution, statutes and regulations of the United States of America and the State of Colorado, the administrative rules and regulations promulgated by the Colorado Oil and Gas Conservation Commission ("COGCC Rules"), the ordinances of Routt County, Colorado, and the rules and regulations promulgated by the Colorado Division of Water Resources. Earle hereby agrees to indemnify, defend and hold harmless North Finn, together with its respective predecessors, successors, insurers, assigns, affiliates, parents, subsidiaries, directors, members, officers, employees, agents, and representatives, from any and all actions, causes of action, claims, counterclaims, cross-claims, complaints, suits, damages, costs, fees, expenses, judgments, executions, controversies, allegations, assertions, and demands of any kind or nature whatsoever, whether founded on tort, contract, equity, law, or any other theory, and whether known or unknown, discoverable or undiscoverable, asserted or unasserted, arising out of, related to, or arising from the same transaction or occurrence concerning this Agreement, the Pits or the Water Wells. A Statement of Authority, concerning Earle's acceptance of liability, is attached hereto as Exhibit E.

a. Valid Water Well Permit. Earle hereby warrants and represents that the two (2) water well applications are attached hereto as Exhibit D constitute true and complete copies of water well applications, filed with the Colorado Division of Water Resources to Earle, with respect to the Water Wells. Earle agrees to take full responsibility for these wells whether or not the State of Colorado approves these wells as water wells.

b. COGCC Rule 319(a) Authority. The Parties hereby stipulate and agree that: (i) the Water Wells may be safely used as fresh water wells as contemplated by COGCC Rule 319(a)(7); (ii) the Water Wells need not be filled above the required sealing plug set below fresh water; (iii) Earle desires to use the Water Wells as fresh water wells and (iv) and this stipulation is based upon each parties own investigation and not on any reliance of information provided by the other party. Accordingly, Earle hereby agrees to accept all responsibilities, obligations and liabilities imposed by the COGCC Rules for the plugging

and reclamation of the Water Wells upon their abandonment by Earle, in the manner provided for in the COGCC Rules. A Statement of Authority, concerning Earle's acceptance of liability, is attached hereto as Exhibit E

3. Termination of SUAs. The Parties hereby stipulate and agree that except as otherwise expressly set forth herein, the obligations and responsibilities of the Parties with respect to the SUAs (including Pit Agreements), including all reclamation obligations, have been properly and completely performed, and the Parties hereby agree that the SUAs and Pit Agreements are terminated in their entirety as of the Effective Date. No further payments are due under the SUAs.

a. Removal of Equipment by North Finn. Notwithstanding the language of the conveyance herein, and unless otherwise expressly exempt from removal of storage van which is being transferred to Earle, North Finn hereby reserves the right to enter upon the Subject Lands, at all reasonable times, for the purpose of removing equipment, fixtures, and other personal property located on the Subject Lands and associated with or related to North Finn's oil and gas operations upon the Subject Lands. Earle hereby grants North Finn the right to access, ingress and egress on, over and across the Subject Lands, for the purpose of removing such equipment, fixtures, and other personal property owned by North Finn and located on the Subject Lands.

b. Roads, Fences and Wellsites. As of the Effective Date, Earle hereby accepts all duties, obligations and responsibilities regarding the reclamation of roads, fences and wellsites located on the Subject Lands imposed by any local, state or federal law, including without limitation the reclamation requirements imposed by the COGCC Rules.

c. Noxious Weed Control. As of the Effective Date, Earle hereby accepts all duties, obligations and responsibilities regarding the control of noxious weeds on the Subject Lands imposed by any local, state or federal law, including without limitation the requirements imposed by the COGCC Rules.

d. Storage Building. Notwithstanding anything herein to the contrary, the conveyance set forth herein shall be deemed by the Parties to include the storage building hereto ("Storage Building"). As of the effective Date, Earle hereby accepts all duties, obligations and responsibilities regarding the reclamation and clean-up of the area surrounding the Storage Building imposed by any local, state or federal law, including without limitation the reclamation requirements imposed by the COGCC Rules.

4. Release of Bond. The Parties acknowledge that pursuant to the COGCC Rules, the oil and gas bond of North Finn covering the Subject Lands will not be released by the COGCC until the COGCC officially recognizes one or more variances to the COGCC Rules. Accordingly, the release of North Finn's oil and gas operations bond by the COGCC is a material term herein.

5. Consideration. In consideration of the mutual covenants, obligations and promises of the Parties set forth herein, North Finn agrees to make a single payment to Earle in the total amount of Two Hundred Seventy Seven Thousand and Five Hundred Dollars (\$277,500.00), within thirty (30) days of the execution of this Agreement by all Parties; provided, however, in no event shall North Finn be obligated to set over the consideration recited herein prior to COGCC approval of transferring the 10 evaporation pits to Earle.

In addition North Finn will pay Earle as agreed to on each individual well site as listed in Exhibit "C" when the work has been completed by Earle.

6. Integration; Successor and Assigns. This Agreement contains all of the agreements and understandings between the Parties, and there are no other written or oral agreements regarding the subject matter hereof. This Agreement shall be binding upon the Parties and each of their respective successors and permitted assigns.

7. Governing Law; Forum Selection. This Agreement shall be construed and enforced in accordance with the laws of the State of Colorado. The courts and authorities of the State of Colorado will have sole and exclusive jurisdiction and venue over all controversies that may arise with respect to the execution and interpretation of, and compliance with, this Agreement.

8. Warranty of Authority; No Reliance; Amendment. Each Party who executes this Agreement warrants and represents to each Party hereto that he or she has the authority to do so and thereby bind the respective Party to this Agreement, along with all respective heirs, personal representatives, successors, and assigns, and agrees to indemnify and hold harmless the other Parties from any claim that such authority did not exist. Each Party is executing this Agreement solely in reliance upon its own knowledge and judgment, and not upon any representations, except as expressly stated herein, by any other Party, or anyone acting on any other Party's behalf. This Agreement may not be amended or modified, except in a writing signed by all Parties to this Agreement.

9. Interpretation; Severability. Should this Agreement require judicial interpretation, it is agreed that the court interpreting the same shall not apply a presumption that its terms will be more strictly construed against one Party by reason of the rule of construction that a document is to be construed more strictly against the Party who prepared the same, it being agreed that the Parties have had an opportunity to participate jointly and fully in the preparation of this Agreement. In the event that any condition, term or covenant contained in this Agreement is either deemed to be invalid or void by any court of competent jurisdiction or cannot be performed, the same shall be deemed severable from the remainder of this Agreement and shall in no way affect any other covenant or condition herein contained. If such a condition, covenant, or other provision shall be deemed invalid due to scope or breadth, then such provision shall be valid to the extent and scope permitted by law.

10. Attorney Fees and Other Legal Expenses and Costs. The Parties to this Agreement shall be responsible for all of their own attorney fees, costs, and expenses incurred in connection with the negotiation and execution of this Agreement. Should any Party institute any action or proceeding to enforce any provision hereof, or for damages by reason of any breach of any provision of this Agreement, the prevailing Party in any such action or proceeding shall be entitled to all reasonable attorney fees, court costs, and expenses incurred in connection with such action or proceeding.

11. Cooperation of the Parties. Each of the Parties shall execute and deliver any and all additional papers, documents, and other assurances, and shall do any and all acts and things reasonably necessary in connection with the performance of their obligations hereunder, and to carry out the intent of this Agreement. In the event that it becomes necessary to prepare and execute any additional documents in order to effectuate the purposes of this Agreement, the Parties hereto agree to do so within ten (10) business days of the written request for such.

12. Recitals, Exhibits and Schedules Incorporated; Counterparts. All Recitals, Exhibits and Schedules to this Agreement are incorporated herein by this reference. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original, but all of which shall constitute one and the same instrument.





127409

**EXHIBIT A**  
**Conveyance and Reclamation Agreement**  
**by and between**  
**North Finn Limited Liability Company and Wilton Earle & Sons**

**SUBJECT LANDS**

Township 6 North, Range 89 West, 6th P.M.

Section 17: All  
Section 18: Lots 1-2, E/2 NE/4, S/2, SE/4 NW/4  
Section 19: All  
Section 20: All

Township 6 North, Range 89 West, 6th P.M.

A tract of land located in the E/2 of Section 19 and the NE/4 of Section 30, more particularly described as:

Beginning at a point on the east line of the SE/4 of Section 19, Township 6 North, Range 89 West, 6th P.M., from which the east quarter-corner of said Section 19 bears N 0°27'43"E 7.84 feet; thence S 0°27'42"W 2690.85 feet along the east line of the said SE/4 to the southeast corner of the SE/4 of said Section 19; thence, departing the east line of the said SE/4 of Section 19 the following two courses through a portion of the NE/4, Section 30, Township 6 North, Range 89 West, 6th P.M.: 1. S 86°30'33"W 606.92 feet; 2. thence N 59°55'58"W 84.83 feet to a point on the south line of the SW/4 of said Section 19 from which the south quarter of said Section 19 bears N 89°31'56"W 1967.34 feet and the southeast corner of the SE/4 of said Section 19 bears S 89°31'56"E 679.23 feet; thence, the following six courses through a portion of the SE/4 of said Section 19: 1. thence N 59°55'58"W 182.5 feet; thence N 1°49'8"E 640.39 feet; thence N 5°24'19"W 326.81 feet; thence N 0°31'4"E 1313.98 feet; thence N 21°43'43"E 360.98 feet; thence S 88°20'45"E 724.09 feet to a point on the said east line of the SE/4 of said Section 19 and the point of beginning.

Containing 2,492.14 acres, more or less

**EXHIBIT B**  
Conveyance and Reclamation Agreement  
by and between  
North Finn Limited Liability Company and Wilton Earle & Sons

**Evaporation Ponds**

**LEGAL DESCRIPTION**

A description of a tract of land located in the East 1/2 of Section 19 and the Northeast 1/4 of Section 30, Township 6 North, Range 89 West of the 6<sup>th</sup> P.M., Routt County, Colorado.

Beginning at a point on the East line of the Southeast 1/4 of Section 19, T6N, R89W, from which the East 1/4 corner of said Section 19 bears N 0°27'43"E, 7.84 feet;

Thence, S00°27'43"W, 2690.85 feet along the East line of the said Southeast 1/4 to the Southeast corner of the Southeast 1/4 of said Section 19;

Thence, departing the East line of the said Southeast 1/4 of Section 19 the following two courses through a portion of the Northeast 1/4 of Section 30, T6N, R89W:

1. S86°30'33"W, 606.92 feet;
2. Thence, N59°55'58"W, 84.83 feet to a point on the South line of the Southwest 1/4 of said Section 19 from which the South 1/4 of said Section 19 bears N89°31'56"W 1967.34 feet and the Southeast corner of the Southeast 1/4 of said Section 19 bears S89°31'56"E, 679.23 feet;

Thence, the following six courses through a portion of the Southeast 1/4 of said Section 19;

1. Thence, N59°55'58"W, 182.50 feet;
2. Thence, N01°49'08"E, 640.39 feet;
3. Thence, N05°24'19"W, 326.81 feet;
4. Thence, N00°31'04"E, 1313.98 feet;
5. Thence, N21°43'43"E, 360.98 feet;
6. Thence, S88°20'45"E, 724.09 feet to a point on the said East line of the Southeast 1/4 of said Section 19 and the Point of Beginning.

Containing 52.14 Acres, more or less

Legal Description Prepared By:

David B. Dusdal, P.L.S.  
Colorado Professional Land Surveyor No. 28650  
Johnson, Kunkel & Associates, Inc.  
1120 South Lincoln Ave. #202  
Steamboat Springs, CO 80487



# EXHIBIT B

## EXHIBIT MAP

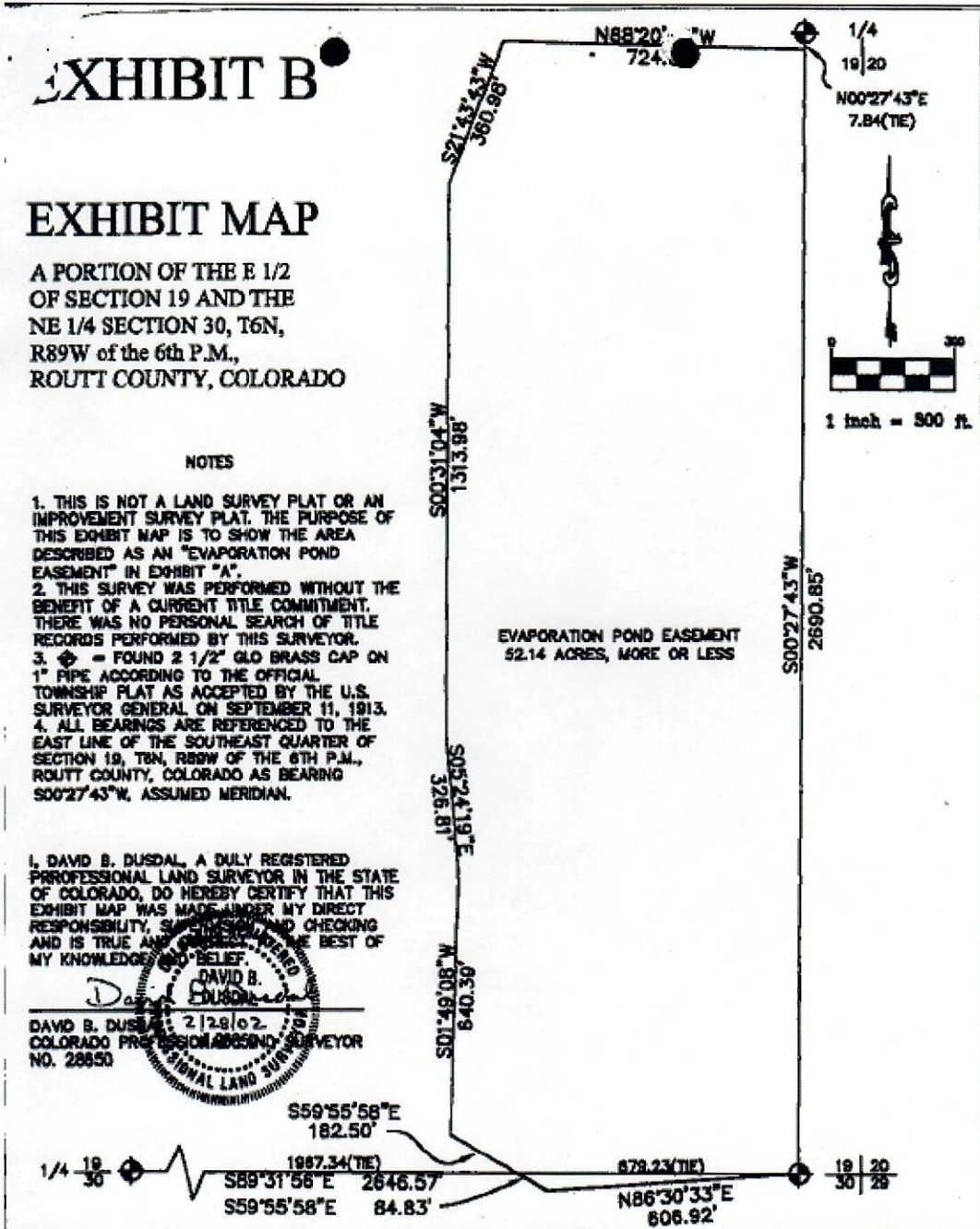
A PORTION OF THE E 1/2  
OF SECTION 19 AND THE  
NE 1/4 SECTION 30, T6N,  
R89W of the 6th P.M.,  
ROUTT COUNTY, COLORADO

### NOTES

1. THIS IS NOT A LAND SURVEY PLAT OR AN IMPROVEMENT SURVEY PLAT. THE PURPOSE OF THIS EXHIBIT MAP IS TO SHOW THE AREA DESCRIBED AS AN "EVAPORATION POND EASEMENT" IN EXHIBIT "A".
2. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A CURRENT TITLE COMMITMENT. THERE WAS NO PERSONAL SEARCH OF TITLE RECORDS PERFORMED BY THIS SURVEYOR.
3.  $\odot$  = FOUND 2 1/2" GLO BRASS CAP ON 1" PIPE ACCORDING TO THE OFFICIAL TOWNSHIP PLAT AS ACCEPTED BY THE U.S. SURVEYOR GENERAL ON SEPTEMBER 11, 1913.
4. ALL BEARINGS ARE REFERENCED TO THE EAST LINE OF THE SOUTHEAST QUARTER OF SECTION 19, T6N, R89W OF THE 6TH P.M., ROUTT COUNTY, COLORADO AS BEARING S00°27'43"W, ASSUMED MERIDIAN.

I, DAVID B. DUSDAL, A DULY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO, DO HEREBY CERTIFY THAT THIS EXHIBIT MAP WAS MADE UNDER MY DIRECT RESPONSIBILITY, SUPERVISION AND CHECKING AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DAVID B. DUSDAL 2128102  
COLORADO PROFESSIONAL SURVEYOR  
NO. 28850



<b>Johnson, Kunkel &amp; Associates, Inc.</b> LAND SURVEYING    MAPPING CIVIL ENGINEERING	ENGLE PHONE: 970-328-6388 FAX: 970-328-1036	STEAMBOAT SPRINGS 970-879-4478 970-879-4820	SCALE 1 in. = 300 ft.	DRAWN BY: JKL CHECKED BY: JKL JOB NO.: 200002 DATE: 2/27/02 DRAWING NO.: POND-LEBA, 02	1 SHEET
	P.O. Box 488    1286 Chambers Ave., Engle, Engle, CO 81629 P.O. Box 771198    1128 S. Lincoln Ave., Steamboat Springs, CO 80687				1 SHEET

**EXHIBIT C**  
**Conveyance and Reclamation Agreement**  
**by and between**  
**North Finn Limited Liability Company and Wilton Earle & Sons**

**Consideration**

Jul 06 09 04:52p

LORETTA EARLE

970-826-2664

p.2

Exhibit "C"

**EARLE CONSTRUCTION INC.**  
**785 VALLEY VIEW DR.**  
**CRAIG, CO. 81625**

**PH: 970-824-6258**  
**FAX: 970-826-2664**  
**CELL: 970-326-5151**

7-6-09

**ATT: WAYNE NEUMILLER**

**NORTH FINN LLC**  
**950 STAFFORD**  
**CASPER, WY. 82609-3205**

**RE: RECLAIMING EVAPORATION PITS BID**

<b>10 PITS</b>	<b>@ \$12,000.00 EA.</b>	<b>\$120,000.00</b>
<b>TOP SOIL</b>	<b>APP. 75,000YDS</b>	<b>130,000.00</b>
<b>PUMP WATER</b>		<b>10,000.00</b>
<b>REMOVE LINER</b>		<b>10,000.00</b>
<b>REMOVE FENCE &amp; 6 FT. PIPES</b>		<b>2,500.00</b>
<b>WORK , DRILL &amp; SEED</b>		<b><u>5,000.00</u></b>
		<b>\$277,500.00</b>

**LOCATION AND ROADS**

<b>11-20</b>	<b>\$15,000.00</b>
<b>23-17</b>	<b>5,000.00</b>
<b>32-17</b>	<b>15,000.00</b>
<b>32-20</b>	<b>25,000.00</b>
<b>44-17 FENCE &amp; ROAD</b>	<b>25,000.00</b>
<b>24-16</b>	<b>15,000.00</b>
<b>13-16</b>	<b>15,000.00</b>
<b>BARNES ROAD</b>	<b>10,000.00</b>
<b>22-16 ROAD &amp; FENCE</b>	<b><u>22,500.00</u></b>
<b>PRICE INCLUDES, TOP SOIL, GROUND WORKED</b>	
<b>AND PLANTED</b>	<b>\$147,500.00</b>

**EXHIBIT D**

**Conveyance and Reclamation Agreement  
by and between**

**North Finn Limited Liability Company and Wilton Earle & Sons**

**STATE ENGINEER WATER WELL PERMITS**

**Earle's have applied for water well permits on the Breeze #43-18 (NESE Section 18-T6N-R89W) and the Breeze #23-17 (NESW Section 17-T6N-R89W) Wells and are requesting we leave these wells with no cement in them so they can make water wells out of the coals plus any sands that they want to produce.**

**EXHIBIT E**

**Conveyance and Reclamation Agreement  
by and between  
North Finn Limited Liability Company and Wilton Earle & Sons**

**Letter from Colorado Oil and Gas Commission  
Giving variance from rules to allowing Earle's to assume responsibility of Evaporation  
Pits.**

**EXHIBIT F**

**Conveyance and Reclamation Agreement  
by and between**

**North Finn Limited Liability Company and Wilton Earle & Sons**

**Letter to Routt County stating Earle's have taken over responsibility of surface  
reclamation at North Finn LLC Breeze CBM project.**

September 8, 2009

Mrs. Chris Brookshire  
Routt County Planning  
P.O. Box 773598  
Steamboat Springs, CO 80477

RE: Breeze Coal Bed Natural Gas Pilot Project – Surface Reclamation Agreement  
North Finn, LLC.

Dear Mrs. Brookshire:

North Finn, LLC. (North Finn) is planning to plug and abandon wells within the Breeze Coal Bed Natural Gas Pilot Project (Breeze Project) located in Routt County, Colorado. The project covers Sections 16, 17, 18, 19, and 20 of T6N R89W owned by State of Colorado and private landowners with the State as mineral owner. North Finn has no intention to proceed with further production activities for the nine (9) constructed wells located within the facility. Therefore, North Finn will remove all associated production equipment and proceed with plugging and abandoning nine (9) wells.

North Finn negotiated a legal agreement with the surface owner, Mr. Harold Earle for surface reclamation activities. Mr. Earle has agreed to take full responsibility and liability to reclaim the nine (9) constructed well pads, well access roads, ten (10) evaporation ponds, and the outfall. With this agreement, Mr. Earle will leave the constructed wells Breeze #23-17, Breeze #43-18, and ten (10) constructed evaporation ponds for use in his ranching operations. Currently, Mr. Earle has submitted water well permits for these two (2) wells to the Colorado State Land Board. North Finn will apply for a variance from the Colorado Oil & Gas Conservation Commission Reclamation Regulations listed in the 1000 Series rules for the ten (10) evaporation ponds. North Finn has attached the Surface Reclamation agreement between surface landowner Mr. Earle to file with Routt County, Colorado.

If you have questions or would like to discuss this matter further, please feel free to contact Brian Goodnough at 307-742-4991 or [bgoodnough@cbmainc.com](mailto:bgoodnough@cbmainc.com).

Sincerely,

Wayne P. Neumiller

**North Finn, LLC.**

Project ID:

Sample ID: OT-POND-5

ACZ Sample ID: **L81870-01**

Date Sampled: 04/29/10 10:00

Date Received: 04/30/10

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	25			mg/L	1	5	05/07/10 15:03	aml
Lab Filtration	SM 3030 B			*				04/30/10 11:50	lhb
Residue, Filterable (TDS) @180C	SM2540C	780			mg/L	10	20	05/04/10 13:11	jjc
Sulfate	SM4500 SO4-D	50	B		mg/L	10	50	05/10/10 11:11	jlf

**North Finn, LLC.**

Project ID:

Sample ID: OT-POND-6

ACZ Sample ID: **L81870-02**

Date Sampled: 04/29/10 10:10

Date Received: 04/30/10

Sample Matrix: Ground Water

## Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	32		*	mg/L	1	5	05/10/10 17:01	aml
Lab Filtration	SM 3030 B			*				04/30/10 11:51	lhb
Residue, Filterable (TDS) @180C	SM2540C	950			mg/L	10	20	05/04/10 13:12	jjc
Sulfate	SM4500 SO4-D	30	B		mg/L	10	50	05/10/10 11:13	jlf

**North Finn, LLC.**

Project ID:

Sample ID: OT-POND-8

ACZ Sample ID: **L81870-03**

Date Sampled: 04/29/10 10:25

Date Received: 04/30/10

Sample Matrix: Ground Water

## Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	42		*	mg/L	1	5	05/10/10 17:01	aml
Lab Filtration	SM 3030 B			*				04/30/10 11:53	lhb
Residue, Filterable (TDS) @180C	SM2540C	1820			mg/L	10	20	05/04/10 13:13	jjc
Sulfate	SM4500 SO4-D	860			mg/L	10	50	05/10/10 11:15	jlf

**North Finn, LLC.**

Project ID:

Sample ID: OT-POND-9

ACZ Sample ID: **L81870-04**

Date Sampled: 04/29/10 10:35

Date Received: 04/30/10

Sample Matrix: Ground Water

## Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	28		*	mg/L	1	5	05/10/10 17:01	aml
Lab Filtration	SM 3030 B			*				04/30/10 11:55	lhb
Residue, Filterable (TDS) @180C	SM2540C	1190			mg/L	10	20	05/04/10 13:13	jjc
Sulfate	SM4500 SO4-D	70			mg/L	10	50	05/10/10 11:17	jlf



LABORATORY ANALYTICAL REPORT

Client: North Finn LLC  
 Site Name: Evaporation\_Pond\_Monitoring  
 Project: Other  
 Client Sample ID: OT\_Pond\_10  
 Location:  
 Samp FRQ/Type: SP  
 Lab ID: G09080884-001

Revised Date: 09/25/09  
 Report Date: 09/11/09  
 Collection Date: 08/27/09 10:05  
 Date Received: 08/29/09  
 Sampled By: B Goodnough  
 Matrix: Aqueous  
 Tracking Number: 154420

Analyses	Result	Units	RL	Qualifier	Result	Units	Method	Analysis Date / By
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MAJOR IONS, DISSOLVED

Chloride	33	mg/L	1		0.94	meq/L	E300.0	09/01/09 15:41 / mli
Sulfate	24	mg/L	1		0.49	meq/L	E300.0	09/01/09 15:41 / mli

NON-METALS

Solids, Total Dissolved TDS @ 180 C	2390	mg/L	15	D			A2540 C	09/02/09 08:40 / mav
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PETROLEUM HYDROCARBONS-VOLATILE

Gasoline Range Organics (GRO)	ND	ug/L	20				SW8015B	09/02/09 23:05 / eli-b
Total Purgeable Hydrocarbons	ND	ug/L	20				SW8015B	09/02/09 23:05 / eli-b
Surr: Trifluorotoluene	97.0	%REC	70-130				SW8015B	09/02/09 23:05 / eli-b

- Note 1: Gasoline Range Organics(GRO) are defined as all hydrocarbons eluting between 2-Methylpentane and 1,2,4-Trimethylbenzene.
- Note 3: Total Purgeable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- The sample was received in the laboratory with a pH > 2. The pH was 7.

PETROLEUM HYDROCARBONS-SEMI-VOLATILE

Diesel Range Organics (DRO)	0.65	mg/L	0.30				SW8015B	09/06/09 01:39 / eli-b
Total Extractable Hydrocarbons	0.97	mg/L	0.30				SW8015B	09/06/09 01:39 / eli-b
Surr: o-Terphenyl	79.0	%REC	50-150				SW8015B	09/06/09 01:39 / eli-b

- Note 1: Diesel Range Organics are defined as all hydrocarbons eluting between C10 and C28.
- Note 2: Total Extractable Hydrocarbons are defined as the total hydrocarbon response regardless of elution time.

VOLATILE ORGANIC COMPOUNDS

Benzene	ND	ug/L	1.0				SW8260B	09/01/09 12:52 / eli-b
Ethylbenzene	ND	ug/L	1.0				SW8260B	09/01/09 12:52 / eli-b
Toluene	ND	ug/L	1.0				SW8260B	09/01/09 12:52 / eli-b
m+p-Xylenes	ND	ug/L	1.0				SW8260B	09/01/09 12:52 / eli-b
o-Xylene	ND	ug/L	1.0				SW8260B	09/01/09 12:52 / eli-b
Xylenes, Total	ND	ug/L	1.0				SW8260B	09/01/09 12:52 / eli-b
Surr: Dibromofluoromethane	100	%REC	77-126				SW8260B	09/01/09 12:52 / eli-b
Surr: 1,2-Dichloroethane-d4	91.0	%REC	70-130				SW8260B	09/01/09 12:52 / eli-b
Surr: Toluene-d8	117	%REC	79-122				SW8260B	09/01/09 12:52 / eli-b
Surr: p-Bromofluorobenzene	104	%REC	76-127				SW8260B	09/01/09 12:52 / eli-b

- The sample was received in the laboratory with a pH > 2. The pH was 7.

**Report** RL - Analyte reporting limit. MCL - Maximum contaminant level.  
**Definitions:** QCL - Quality control limit. ND - Not detected at the reporting limit.  
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: North Finn LLC  
 Site Name: Evaporation\_Pond\_Monitoring  
 Project: Other  
 Client Sample ID: OT\_Pond\_9  
 Location:  
 Samp FRQ/Type: SP  
 Lab ID: G09080884-002

Revised Date: 09/25/09  
 Report Date: 09/11/09  
 Collection Date: 08/27/09 10:35  
 Date Received: 08/29/09  
 Sampled By: B Goodnough  
 Matrix: Aqueous  
 Tracking Number: 154421

Analyses	Result	Units	RL	Qualifier	Result	Units	Method	Analysis Date / By
<b>MAJOR IONS, DISSOLVED</b>								
Chloride	59	mg/L	1		1.67	meq/L	E300.0	09/01/09 16:26 / mli
Sulfate	91	mg/L	1		1.89	meq/L	E300.0	09/01/09 16:26 / mli
<b>NON-METALS</b>								
Solids, Total Dissolved TDS @ 180 C	4000	mg/L	27	D			A2540 C	09/02/09 08:43 / mav
<b>PETROLEUM HYDROCARBONS-VOLATILE</b>								
Gasoline Range Organics (GRO)	ND	ug/L	20				SW8015B	09/03/09 00:16 / eli-b
Total Purgeable Hydrocarbons	ND	ug/L	20				SW8015B	09/03/09 00:16 / eli-b
Surr: Trifluorotoluene	96.0	%REC	70-130				SW8015B	09/03/09 00:16 / eli-b
<ul style="list-style-type: none"> <li>- Note 1: Gasoline Range Organics(GRO) are defined as all hydrocarbons eluting between 2-Methylpentane and 1,2,4-Trimethylbenzene.</li> <li>- Note 3: Total Purgeable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.</li> <li>- The sample was received in the laboratory with a pH &gt; 2. The pH was 7.</li> </ul>								
<b>PETROLEUM HYDROCARBONS-SEMI-VOLATILE</b>								
Diesel Range Organics (DRO)	0.92	mg/L	0.30				SW8015B	09/05/09 21:40 / eli-b
Total Extractable Hydrocarbons	1.2	mg/L	0.30				SW8015B	09/05/09 21:40 / eli-b
Surr: o-Terphenyl	58.0	%REC	50-150				SW8015B	09/05/09 21:40 / eli-b
<ul style="list-style-type: none"> <li>- Note 1: Diesel Range Organics are defined as all hydrocarbons eluting between C10 and C28.</li> <li>- Note 2: Total Extractable Hydrocarbons are defined as the total hydrocarbon response regardless of elution time.</li> </ul>								
<b>VOLATILE ORGANIC COMPOUNDS</b>								
Benzene	ND	ug/L	1.0				SW8260B	09/01/09 13:20 / eli-b
Ethylbenzene	ND	ug/L	1.0				SW8260B	09/01/09 13:20 / eli-b
Toluene	ND	ug/L	1.0				SW8260B	09/01/09 13:20 / eli-b
m+p-Xylenes	ND	ug/L	1.0				SW8260B	09/01/09 13:20 / eli-b
o-Xylene	ND	ug/L	1.0				SW8260B	09/01/09 13:20 / eli-b
Xylenes, Total	ND	ug/L	1.0				SW8260B	09/01/09 13:20 / eli-b
Surr: Dibromofluoromethane	98.0	%REC	77-126				SW8260B	09/01/09 13:20 / eli-b
Surr: 1,2-Dichloroethane-d4	93.0	%REC	70-130				SW8260B	09/01/09 13:20 / eli-b
Surr: Toluene-d8	119	%REC	79-122				SW8260B	09/01/09 13:20 / eli-b
Surr: p-Bromofluorobenzene	102	%REC	76-127				SW8260B	09/01/09 13:20 / eli-b
- The sample was received in the laboratory with a pH > 2. The pH was 7.								

**Report** RL - Analyte reporting limit. MCL - Maximum contaminant level.  
**Definitions:** QCL - Quality control limit. ND - Not detected at the reporting limit.  
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: North Finn LLC  
 Site Name: Evaporation\_Pond\_Monitoring  
 Project: Other  
 Client Sample ID: OT\_Pond\_8  
 Location:  
 Samp FRQ/Type: SP  
 Lab ID: G09080884-003

Revised Date: 09/25/09  
 Report Date: 09/11/09  
 Collection Date: 08/27/09 11:00  
 Date Received: 08/29/09  
 Sampled By: B Goodnough  
 Matrix: Aqueous  
 Tracking Number: 154422

Analyses	Result	Units	RL	Qualifier	Result	Units	Method	Analysis Date / By
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**MAJOR IONS, DISSOLVED**

Chloride	52	mg/L	1		1.46	meq/L	E300.0	09/01/09 16:41 / mli
Sulfate	1470	mg/L	1		30.5	meq/L	E300.0	09/01/09 16:41 / mli

**NON-METALS**

Solids, Total Dissolved TDS @ 180 C	3330	mg/L	29	D			A2540 C	09/02/09 08:44 / mav
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**PETROLEUM HYDROCARBONS-VOLATILE**

Gasoline Range Organics (GRO)	ND	ug/L	20				SW8015B	09/03/09 01:27 / eli-b
Total Purgeable Hydrocarbons	ND	ug/L	20				SW8015B	09/03/09 01:27 / eli-b
Surr: Trifluorotoluene	95.0	%REC	70-130				SW8015B	09/03/09 01:27 / eli-b

- Note 1: Gasoline Range Organics(GRO) are defined as all hydrocarbons eluting between 2-Methylpentane and 1,2,4-Trimethylbenzene.
- Note 3: Total Purgeable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- The sample was received in the laboratory with a pH > 2. The pH was 3.

**PETROLEUM HYDROCARBONS-SEMI-VOLATILE**

Diesel Range Organics (DRO)	0.43	mg/L	0.30				SW8015B	09/05/09 18:28 / eli-b
Total Extractable Hydrocarbons	0.69	mg/L	0.30				SW8015B	09/05/09 18:28 / eli-b
Surr: o-Terphenyl	77.0	%REC	50-150				SW8015B	09/05/09 18:28 / eli-b

- Note 1: Diesel Range Organics are defined as all hydrocarbons eluting between C10 and C28.
- Note 2: Total Extractable Hydrocarbons are defined as the total hydrocarbon response regardless of elution time.

**VOLATILE ORGANIC COMPOUNDS**

Benzene	ND	ug/L	1.0				SW8260B	09/01/09 13:48 / eli-b
Ethylbenzene	ND	ug/L	1.0				SW8260B	09/01/09 13:48 / eli-b
Toluene	ND	ug/L	1.0				SW8260B	09/01/09 13:48 / eli-b
m+p-Xylenes	ND	ug/L	1.0				SW8260B	09/01/09 13:48 / eli-b
o-Xylene	ND	ug/L	1.0				SW8260B	09/01/09 13:48 / eli-b
Xylenes, Total	ND	ug/L	1.0				SW8260B	09/01/09 13:48 / eli-b
Surr: Dibromofluoromethane	101	%REC	77-126				SW8260B	09/01/09 13:48 / eli-b
Surr: 1,2-Dichloroethane-d4	98.0	%REC	70-130				SW8260B	09/01/09 13:48 / eli-b
Surr: Toluene-d8	114	%REC	79-122				SW8260B	09/01/09 13:48 / eli-b
Surr: p-Bromofluorobenzene	98.0	%REC	76-127				SW8260B	09/01/09 13:48 / eli-b

- The sample was received in the laboratory with a pH > 2. The pH was 7.

**Report** RL - Analyte reporting limit.

**Definitions:** QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: North Finn LLC  
 Site Name: Evaporation\_Pond\_Monitoring  
 Project: Other  
 Client Sample ID: OT\_Pond\_7  
 Location:  
 Samp FRQ/Type: SP  
 Lab ID: G09080884-004

Revised Date: 09/25/09  
 Report Date: 09/11/09  
 Collection Date: 08/27/09 11:20  
 Date Received: 08/29/09  
 Sampled By: B Goodnough  
 Matrix: Aqueous  
 Tracking Number: 154423

Analyses	Result	Units	RL	Qualifier	Result	Units	Method	Analysis Date / By
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MAJOR IONS, DISSOLVED

Chloride	40	mg/L	1		1.12	meq/L	E300.0	09/01/09 16:57 / mli
Sulfate	422	mg/L	1		8.78	meq/L	E300.0	09/01/09 16:57 / mli

NON-METALS

Solids, Total Dissolved TDS @ 180 C	2180	mg/L	14	D			A2540 C	09/02/09 08:44 / mav
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PETROLEUM HYDROCARBONS-VOLATILE

Gasoline Range Organics (GRO)	ND	ug/L	20				SW8015B	09/03/09 02:38 / eli-b
Total Purgeable Hydrocarbons	ND	ug/L	20				SW8015B	09/03/09 02:38 / eli-b
Surr: Trifluorotoluene	98.0	%REC	70-130				SW8015B	09/03/09 02:38 / eli-b

- Note 1: Gasoline Range Organics(GRO) are defined as all hydrocarbons eluting between 2-Methylpentane and 1,2,4-Trimethylbenzene.
- Note 3: Total Purgeable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- The sample was received in the laboratory with a pH > 2. The pH was 7.

PETROLEUM HYDROCARBONS-SEMI-VOLATILE

Diesel Range Organics (DRO)	0.48	mg/L	0.30				SW8015B	09/05/09 22:28 / eli-b
Total Extractable Hydrocarbons	0.76	mg/L	0.30				SW8015B	09/05/09 22:28 / eli-b
Surr: o-Terphenyl	63.0	%REC	50-150				SW8015B	09/05/09 22:28 / eli-b

- Note 1: Diesel Range Organics are defined as all hydrocarbons eluting between C10 and C28.
- Note 2: Total Extractable Hydrocarbons are defined as the total hydrocarbon response regardless of elution time.

VOLATILE ORGANIC COMPOUNDS

Benzene	ND	ug/L	1.0				SW8260B	09/01/09 14:15 / eli-b
Ethylbenzene	ND	ug/L	1.0				SW8260B	09/01/09 14:15 / eli-b
Toluene	ND	ug/L	1.0				SW8260B	09/01/09 14:15 / eli-b
m+p-Xylenes	ND	ug/L	1.0				SW8260B	09/01/09 14:15 / eli-b
o-Xylene	ND	ug/L	1.0				SW8260B	09/01/09 14:15 / eli-b
Xylenes, Total	ND	ug/L	1.0				SW8260B	09/01/09 14:15 / eli-b
Surr: Dibromofluoromethane	101	%REC	77-126				SW8260B	09/01/09 14:15 / eli-b
Surr: 1,2-Dichloroethane-d4	100	%REC	70-130				SW8260B	09/01/09 14:15 / eli-b
Surr: Toluene-d8	114	%REC	79-122				SW8260B	09/01/09 14:15 / eli-b
Surr: p-Bromofluorobenzene	96.0	%REC	76-127				SW8260B	09/01/09 14:15 / eli-b

- The sample was received in the laboratory with a pH > 2. The pH was 7.

Report: RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: North Finn LLC  
 Site Name: Evaporation\_Pond\_Monitoring  
 Project: Other  
 Client Sample ID: OT\_Pond\_6  
 Location:  
 Samp FRQ/Type: SP  
 Lab ID: G09080884-005

Revised Date: 09/25/09  
 Report Date: 09/11/09  
 Collection Date: 08/27/09 11:50  
 Date Received: 08/29/09  
 Sampled By: B Goodnough  
 Matrix: Aqueous  
 Tracking Number: 154424

Analyses	Result	Units	RL	Qualifier	Result	Units	Method	Analysis Date / By
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MAJOR IONS, DISSOLVED

Chloride	67	mg/L	1		1.88	meq/L	E300.0	09/01/09 17:12 / mli
Sulfate	5	mg/L	1		0.10	meq/L	E300.0	09/01/09 17:12 / mli

NON-METALS

Solids, Total Dissolved TDS @ 180 C	2970	mg/L	32	D			A2540 C	09/02/09 08:45 / mav
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PETROLEUM HYDROCARBONS-VOLATILE

Gasoline Range Organics (GRO)	ND	ug/L	20				SW8015B	09/03/09 03:49 / eli-b
Total Purgeable Hydrocarbons	ND	ug/L	20				SW8015B	09/03/09 03:49 / eli-b
Surr: Trifluorotoluene	94.0	%REC	70-130				SW8015B	09/03/09 03:49 / eli-b

- Note 1: Gasoline Range Organics(GRO) are defined as all hydrocarbons eluting between 2-Methylpentane and 1,2,4-Trimethylbenzene.
- Note 3: Total Purgeable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- The sample was received in the laboratory with a pH > 2. The pH was 7.

PETROLEUM HYDROCARBONS-SEMI-VOLATILE

Diesel Range Organics (DRO)	0.55	mg/L	0.30				SW8015B	09/05/09 23:16 / eli-b
Total Extractable Hydrocarbons	0.84	mg/L	0.30				SW8015B	09/05/09 23:16 / eli-b
Surr: o-Terphenyl	73.0	%REC	50-150				SW8015B	09/05/09 23:16 / eli-b

- Note 1: Diesel Range Organics are defined as all hydrocarbons eluting between C10 and C28.
- Note 2: Total Extractable Hydrocarbons are defined as the total hydrocarbon response regardless of elution time.

VOLATILE ORGANIC COMPOUNDS

Benzene	ND	ug/L	1.0				SW8260B	09/01/09 14:43 / eli-b
Ethylbenzene	ND	ug/L	1.0				SW8260B	09/01/09 14:43 / eli-b
Toluene	ND	ug/L	1.0				SW8260B	09/01/09 14:43 / eli-b
m+p-Xylenes	ND	ug/L	1.0				SW8260B	09/01/09 14:43 / eli-b
o-Xylene	ND	ug/L	1.0				SW8260B	09/01/09 14:43 / eli-b
Xylenes, Total	ND	ug/L	1.0				SW8260B	09/01/09 14:43 / eli-b
Surr: Dibromofluoromethane	99.0	%REC	77-126				SW8260B	09/01/09 14:43 / eli-b
Surr: 1,2-Dichloroethane-d4	95.0	%REC	70-130				SW8260B	09/01/09 14:43 / eli-b
Surr: Toluene-d8	116	%REC	79-122				SW8260B	09/01/09 14:43 / eli-b
Surr: p-Bromofluorobenzene	101	%REC	76-127				SW8260B	09/01/09 14:43 / eli-b

- The sample was received in the laboratory with a pH > 2. The pH was 7.

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: North Finn LLC  
 Site Name: Evaporation\_Pond\_Monitoring  
 Project: Other  
 Client Sample ID: OT\_Pond\_5  
 Location:  
 Samp FRQ/Type: SP  
 Lab ID: G09080884-006

Revised Date: 09/25/09  
 Report Date: 09/11/09  
 Collection Date: 08/27/09 12:15  
 Date Received: 08/29/09  
 Sampled By: B Goodnough  
 Matrix: Aqueous  
 Tracking Number: 154425

Analyses	Result	Units	RL	Qualifier	Result	Units	Method	Analysis Date / By
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MAJOR IONS, DISSOLVED

Chloride	62	mg/L	1		1.74	meq/L	E300.0	09/01/09 17:27 / mli
Sulfate	14	mg/L	1		0.29	meq/L	E300.0	09/01/09 17:27 / mli

NON-METALS

Solids, Total Dissolved TDS @ 180 C	3040	mg/L	27	D			A2540 C	09/02/09 08:45 / mav
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PETROLEUM HYDROCARBONS-VOLATILE

Gasoline Range Organics (GRO)	ND	ug/L	20				SW8015B	09/03/09 05:01 / eli-b
Total Purgeable Hydrocarbons	ND	ug/L	20				SW8015B	09/03/09 05:01 / eli-b
Surr: Trifluorotoluene	99.0	%REC	70-130				SW8015B	09/03/09 05:01 / eli-b

- Note 1: Gasoline Range Organics(GRO) are defined as all hydrocarbons eluting between 2-Methylpentane and 1,2,4-Trimethylbenzene.
- Note 3: Total Purgeable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- The sample was received in the laboratory with a pH > 2. The pH was 7.

PETROLEUM HYDROCARBONS-SEMI-VOLATILE

Diesel Range Organics (DRO)	0.29	mg/L	0.30	J			SW8015B	09/06/09 09:46 / eli-b
Total Extractable Hydrocarbons	0.47	mg/L	0.30				SW8015B	09/06/09 09:46 / eli-b
Surr: o-Terphenyl	56.0	%REC	50-150				SW8015B	09/06/09 09:46 / eli-b

- Note 1: Diesel Range Organics are defined as all hydrocarbons eluting between C10 and C28.
- Note 2: Total Extractable Hydrocarbons are defined as the total hydrocarbon response regardless of elution time.

VOLATILE ORGANIC COMPOUNDS

Benzene	ND	ug/L	1.0				SW8260B	09/01/09 15:11 / eli-b
Ethylbenzene	ND	ug/L	1.0				SW8260B	09/01/09 15:11 / eli-b
Toluene	ND	ug/L	1.0				SW8260B	09/01/09 15:11 / eli-b
m+p-Xylenes	ND	ug/L	1.0				SW8260B	09/01/09 15:11 / eli-b
o-Xylene	ND	ug/L	1.0				SW8260B	09/01/09 15:11 / eli-b
Xylenes, Total	ND	ug/L	1.0				SW8260B	09/01/09 15:11 / eli-b
Surr: Dibromofluoromethane	97.0	%REC	77-126				SW8260B	09/01/09 15:11 / eli-b
Surr: 1,2-Dichloroethane-d4	96.0	%REC	70-130				SW8260B	09/01/09 15:11 / eli-b
Surr: Toluene-d8	118	%REC	79-122				SW8260B	09/01/09 15:11 / eli-b
Surr: p-Bromofluorobenzene	102	%REC	76-127				SW8260B	09/01/09 15:11 / eli-b

- The sample was received in the laboratory with a pH > 2. The pH was 7.

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

J - Estimated value. The analyte was present but less than the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: North Finn LLC  
 Site Name: Evaporation\_Pond\_Monitoring  
 Project: Other  
 Client Sample ID: OT\_Pond\_4  
 Location:  
 Samp FRQ/Type: SP  
 Lab ID: G09080884-007

Revised Date: 09/25/09  
 Report Date: 09/11/09  
 Collection Date: 08/27/09 12:45  
 Date Received: 08/29/09  
 Sampled By: B Goodnough  
 Matrix: Aqueous  
 Tracking Number: 154426

Analyses	Result	Units	RL	Qualifier	Result	Units	Method	Analysis Date / By
<b>MAJOR IONS, DISSOLVED</b>								
Chloride	46	mg/L	1		1.29	meq/L	E300.0	09/01/09 17:42 / mli
Sulfate	3	mg/L	1		0.06	meq/L	E300.0	09/01/09 17:42 / mli
<b>NON-METALS</b>								
Solids, Total Dissolved TDS @ 180 C	2490	mg/L	15	D			A2540 C	09/02/09 08:45 / mav
<b>PETROLEUM HYDROCARBONS-VOLATILE</b>								
Gasoline Range Organics (GRO)	ND	ug/L	20				SW8015B	09/03/09 06:12 / eli-b
Total Purgeable Hydrocarbons	ND	ug/L	20				SW8015B	09/03/09 06:12 / eli-b
Surr: Trifluorotoluene	94.0	%REC	70-130				SW8015B	09/03/09 06:12 / eli-b
<ul style="list-style-type: none"> <li>- Note 1: Gasoline Range Organics(GRO) are defined as all hydrocarbons eluting between 2-Methylpentane and 1,2,4-Trimethylbenzene.</li> <li>- Note 3: Total Purgeable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.</li> <li>- The sample was received in the laboratory with a pH &gt; 2. The pH was 7.</li> </ul>								
<b>PETROLEUM HYDROCARBONS-SEMI-VOLATILE</b>								
Diesel Range Organics (DRO)	0.49	mg/L	0.30				SW8015B	09/06/09 04:51 / eli-b
Total Extractable Hydrocarbons	0.72	mg/L	0.30				SW8015B	09/06/09 04:51 / eli-b
Surr: o-Terphenyl	47.0	%REC	50-150	S			SW8015B	09/06/09 04:51 / eli-b
<ul style="list-style-type: none"> <li>- Note 1: Diesel Range Organics are defined as all hydrocarbons eluting between C10 and C28.</li> <li>- Note 2: Total Extractable Hydrocarbons are defined as the total hydrocarbon response regardless of elution time.</li> <li>- S=Surrogate recovery outside QC advisory limits. The sample contained a layer of sediment that may have strongly adsorbed the surrogate and/or reduced extraction efficiency.</li> </ul>								
<b>VOLATILE ORGANIC COMPOUNDS</b>								
Benzene	ND	ug/L	1.0				SW8260B	09/01/09 15:38 / eli-b
Ethylbenzene	ND	ug/L	1.0				SW8260B	09/01/09 15:38 / eli-b
Toluene	ND	ug/L	1.0				SW8260B	09/01/09 15:38 / eli-b
m+p-Xylenes	ND	ug/L	1.0				SW8260B	09/01/09 15:38 / eli-b
o-Xylene	ND	ug/L	1.0				SW8260B	09/01/09 15:38 / eli-b
Xylenes, Total	ND	ug/L	1.0				SW8260B	09/01/09 15:38 / eli-b
Surr: Dibromofluoromethane	101	%REC	77-126				SW8260B	09/01/09 15:38 / eli-b
Surr: 1,2-Dichloroethane-d4	100	%REC	70-130				SW8260B	09/01/09 15:38 / eli-b
Surr: Toluene-d8	112	%REC	79-122				SW8260B	09/01/09 15:38 / eli-b
Surr: p-Bromofluorobenzene	98.0	%REC	76-127				SW8260B	09/01/09 15:38 / eli-b
- The sample was received in the laboratory with a pH > 2. The pH was 7.								

**Report** RL - Analyte reporting limit. MCL - Maximum contaminant level.  
**Definitions:** QCL - Quality control limit. ND - Not detected at the reporting limit.  
 D - RL increased due to sample matrix interference. S - Spike recovery outside of advisory limits.



LABORATORY ANALYTICAL REPORT

Client: North Finn LLC  
 Site Name: Evaporation\_Pond\_Monitoring  
 Project: Other  
 Client Sample ID: OT\_Pond\_3  
 Location:  
 Samp FRQ/Type: SP  
 Lab ID: G09080884-008

Revised Date: 09/25/09  
 Report Date: 09/11/09  
 Collection Date: 08/27/09 13:10  
 Date Received: 08/29/09  
 Sampled By: B Goodnough  
 Matrix: Aqueous  
 Tracking Number: 154427

Analyses	Result	Units	RL	Qualifier	Result	Units	Method	Analysis Date / By
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MAJOR IONS, DISSOLVED

Chloride	48	mg/L	1		1.34	meq/L	E300.0	09/01/09 17:57 / mli
Sulfate	17	mg/L	1		0.35	meq/L	E300.0	09/01/09 17:57 / mli

NON-METALS

Solids, Total Dissolved TDS @ 180 C	3190	mg/L	28	D			A2540 C	09/02/09 08:46 / mav
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PETROLEUM HYDROCARBONS-VOLATILE

Gasoline Range Organics (GRO)	ND	ug/L	20				SW8015B	09/03/09 15:05 / eli-b
Total Purgeable Hydrocarbons	ND	ug/L	20				SW8015B	09/03/09 15:05 / eli-b
Surr: Trifluorotoluene	99.0	%REC	70-130				SW8015B	09/03/09 15:05 / eli-b

- Note 1: Gasoline Range Organics(GRO) are defined as all hydrocarbons eluting between 2-Methylpentane and 1,2,4-Trimethylbenzene.
- Note 3: Total Purgeable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- The sample was received in the laboratory with a pH > 2. The pH was 7.

PETROLEUM HYDROCARBONS-SEMI-VOLATILE

Diesel Range Organics (DRO)	0.59	mg/L	0.30				SW8015B	09/06/09 05:38 / eli-b
Total Extractable Hydrocarbons	0.93	mg/L	0.30				SW8015B	09/06/09 05:38 / eli-b
Surr: o-Terphenyl	95.0	%REC	50-150				SW8015B	09/06/09 05:38 / eli-b

- Note 1: Diesel Range Organics are defined as all hydrocarbons eluting between C10 and C28.
- Note 2: Total Extractable Hydrocarbons are defined as the total hydrocarbon response regardless of elution time.

VOLATILE ORGANIC COMPOUNDS

Benzene	ND	ug/L	1.0				SW8260B	09/01/09 16:06 / eli-b
Ethylbenzene	ND	ug/L	1.0				SW8260B	09/01/09 16:06 / eli-b
Toluene	ND	ug/L	1.0				SW8260B	09/01/09 16:06 / eli-b
m+p-Xylenes	ND	ug/L	1.0				SW8260B	09/01/09 16:06 / eli-b
o-Xylene	ND	ug/L	1.0				SW8260B	09/01/09 16:06 / eli-b
Xylenes, Total	ND	ug/L	1.0				SW8260B	09/01/09 16:06 / eli-b
Surr: Dibromofluoromethane	102	%REC	77-126				SW8260B	09/01/09 16:06 / eli-b
Surr: 1,2-Dichloroethane-d4	103	%REC	70-130				SW8260B	09/01/09 16:06 / eli-b
Surr: Toluene-d8	117	%REC	79-122				SW8260B	09/01/09 16:06 / eli-b
Surr: p-Bromofluorobenzene	98.0	%REC	76-127				SW8260B	09/01/09 16:06 / eli-b

- The sample was received in the laboratory with a pH > 2. The pH was 7.

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: North Finn LLC  
 Site Name: Evaporation\_Pond\_Monitoring  
 Project: Other  
 Client Sample ID: OT\_Pond\_2  
 Location:  
 Samp FRQ/Type: SP  
 Lab ID: G09080884-009

Revised Date: 09/25/09  
 Report Date: 09/11/09  
 Collection Date: 08/27/09 13:45  
 Date Received: 08/29/09  
 Sampled By: B Goodnough  
 Matrix: Aqueous  
 Tracking Number: 154428

Analyses	Result	Units	RL	Qualifier	Result	Units	Method	Analysis Date / By
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MAJOR IONS, DISSOLVED

Chloride	46	mg/L	1		1.31	meq/L	E300.0	09/01/09 18:12 / mli
Sulfate	23	mg/L	1		0.48	meq/L	E300.0	09/01/09 18:12 / mli

NON-METALS

Solids, Total Dissolved TDS @ 180 C	2870	mg/L	26	D			A2540 C	09/02/09 08:46 / mav
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PETROLEUM HYDROCARBONS-VOLATILE

Gasoline Range Organics (GRO)	ND	ug/L	20				SW8015B	09/03/09 16:17 / eli-b
Total Purgeable Hydrocarbons	ND	ug/L	20				SW8015B	09/03/09 16:17 / eli-b
Surr: Trifluorotoluene	87.0	%REC	70-130				SW8015B	09/03/09 16:17 / eli-b

- Note 1: Gasoline Range Organics(GRO) are defined as all hydrocarbons eluting between 2-Methylpentane and 1,2,4-Trimethylbenzene.
- Note 3: Total Purgeable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- The sample was received in the laboratory with a pH > 2. The pH was 7.

PETROLEUM HYDROCARBONS-SEMI-VOLATILE

Diesel Range Organics (DRO)	0.43	mg/L	0.30				SW8015B	09/06/09 06:26 / eli-b
Total Extractable Hydrocarbons	0.73	mg/L	0.30				SW8015B	09/06/09 06:26 / eli-b
Surr: o-Terphenyl	87.0	%REC	50-150				SW8015B	09/06/09 06:26 / eli-b

- Note 1: Diesel Range Organics are defined as all hydrocarbons eluting between C10 and C28.
- Note 2: Total Extractable Hydrocarbons are defined as the total hydrocarbon response regardless of elution time.

VOLATILE ORGANIC COMPOUNDS

Benzene	ND	ug/L	1.0				SW8260B	09/01/09 16:34 / eli-b
Ethylbenzene	ND	ug/L	1.0				SW8260B	09/01/09 16:34 / eli-b
Toluene	ND	ug/L	1.0				SW8260B	09/01/09 16:34 / eli-b
m+p-Xylenes	ND	ug/L	1.0				SW8260B	09/01/09 16:34 / eli-b
o-Xylene	ND	ug/L	1.0				SW8260B	09/01/09 16:34 / eli-b
Xylenes, Total	ND	ug/L	1.0				SW8260B	09/01/09 16:34 / eli-b
Surr: Dibromofluoromethane	100	%REC	77-126				SW8260B	09/01/09 16:34 / eli-b
Surr: 1,2-Dichloroethane-d4	99.0	%REC	70-130				SW8260B	09/01/09 16:34 / eli-b
Surr: Toluene-d8	112	%REC	79-122				SW8260B	09/01/09 16:34 / eli-b
Surr: p-Bromofluorobenzene	100	%REC	76-127				SW8260B	09/01/09 16:34 / eli-b

- The sample was received in the laboratory with a pH > 2. The pH was 7.

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: North Finn LLC  
 Site Name: Evaporation\_Pond\_Monitoring  
 Project: Other  
 Client Sample ID: OT\_Pond\_1  
 Location:  
 Samp FRQ/Type: SP  
 Lab ID: G09080884-010

Revised Date: 09/25/09  
 Report Date: 09/11/09  
 Collection Date: 08/27/09 14:10  
 Date Received: 08/29/09  
 Sampled By: B Goodnough  
 Matrix: Aqueous  
 Tracking Number: 154429

Analyses	Result	Units	RL	Qualifier	Result	Units	Method	Analysis Date / By
<b>MAJOR IONS, DISSOLVED</b>								
Chloride	16	mg/L	1		0.45	meq/L	E300.0	09/01/09 18:28 / mli
Sulfate	24	mg/L	1		0.49	meq/L	E300.0	09/01/09 18:28 / mli
<b>NON-METALS</b>								
Solids, Total Dissolved TDS @ 180 C	795	mg/L	10				A2540 C	09/02/09 08:46 / mav
<b>PETROLEUM HYDROCARBONS-VOLATILE</b>								
Gasoline Range Organics (GRO)	ND	ug/L	20				SW8015B	09/03/09 17:29 / eli-b
Total Purgeable Hydrocarbons	ND	ug/L	20				SW8015B	09/03/09 17:29 / eli-b
Surr: Trifluorotoluene	98.0	%REC	70-130				SW8015B	09/03/09 17:29 / eli-b
- Note 1: Gasoline Range Organics(GRO) are defined as all hydrocarbons eluting between 2-Methylpentane and 1,2,4-Trimethylbenzene.								
- Note 3: Total Purgeable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.								
<b>PETROLEUM HYDROCARBONS-SEMI-VOLATILE</b>								
Diesel Range Organics (DRO)	0.64	mg/L	0.30				SW8015B	09/06/09 07:14 / eli-b
Total Extractable Hydrocarbons	1.1	mg/L	0.30				SW8015B	09/06/09 07:14 / eli-b
Surr: o-Terphenyl	76.0	%REC	50-150				SW8015B	09/06/09 07:14 / eli-b
- Note 1: Diesel Range Organics are defined as all hydrocarbons eluting between C10 and C28.								
- Note 2: Total Extractable Hydrocarbons are defined as the total hydrocarbon response regardless of elution time.								
<b>VOLATILE ORGANIC COMPOUNDS</b>								
Benzene	ND	ug/L	1.0				SW8260B	09/01/09 17:02 / eli-b
Ethylbenzene	ND	ug/L	1.0				SW8260B	09/01/09 17:02 / eli-b
Toluene	ND	ug/L	1.0				SW8260B	09/01/09 17:02 / eli-b
m+p-Xylenes	ND	ug/L	1.0				SW8260B	09/01/09 17:02 / eli-b
o-Xylene	ND	ug/L	1.0				SW8260B	09/01/09 17:02 / eli-b
Xylenes, Total	ND	ug/L	1.0				SW8260B	09/01/09 17:02 / eli-b
Surr: Dibromofluoromethane	100	%REC	77-126				SW8260B	09/01/09 17:02 / eli-b
Surr: 1,2-Dichloroethane-d4	96.0	%REC	70-130				SW8260B	09/01/09 17:02 / eli-b
Surr: Toluene-d8	117	%REC	79-122				SW8260B	09/01/09 17:02 / eli-b
Surr: p-Bromofluorobenzene	100	%REC	76-127				SW8260B	09/01/09 17:02 / eli-b

Report RL - Analyte reporting limit.  
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.  
 ND - Not detected at the reporting limit.



### LABORATORY ANALYTICAL REPORT

**Client:** North Finn LLC  
**Site Name:** Evaporation\_Pond\_Monitoring  
**Project:** Other  
**Client Sample ID:** OT\_Trip\_Blank  
**Location:** Trip Blank-LOTgklr0908120745  
**Samp FRQ/Type:** SP  
**Lab ID:** G09080884-011

**Revised Date:** 09/25/09  
**Report Date:** 09/11/09  
**Collection Date:** 08/12/09 07:45  
**Date Received:** 08/29/09  
**Sampled By:** Kasey Ruff  
**Matrix:** Trip Blank  
**Tracking Number:** 154430

Analyses	Result	Units	RL	Qualifier	Result	Units	Method	Analysis Date / By
<b>VOLATILE ORGANIC COMPOUNDS</b>								
Benzene	ND	ug/L	1.0				SW8260B	09/01/09 10:34 / eli-b
Ethylbenzene	ND	ug/L	1.0				SW8260B	09/01/09 10:34 / eli-b
Toluene	ND	ug/L	1.0				SW8260B	09/01/09 10:34 / eli-b
m+p-Xylenes	ND	ug/L	1.0				SW8260B	09/01/09 10:34 / eli-b
o-Xylene	ND	ug/L	1.0				SW8260B	09/01/09 10:34 / eli-b
Xylenes, Total	ND	ug/L	1.0				SW8260B	09/01/09 10:34 / eli-b
Surr: Dibromofluoromethane	100	%REC	77-126				SW8260B	09/01/09 10:34 / eli-b
Surr: 1,2-Dichloroethane-d4	94.0	%REC	70-130				SW8260B	09/01/09 10:34 / eli-b
Surr: Toluene-d8	114	%REC	79-122				SW8260B	09/01/09 10:34 / eli-b
Surr: p-Bromofluorobenzene	106	%REC	76-127				SW8260B	09/01/09 10:34 / eli-b

**Report** RL - Analyte reporting limit.  
**Definitions:** QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



October 7, 2010

Chris Brookshire  
Routt County Planning Department  
P.O. Box 773749  
Steamboat Springs, CO 80477

**RE: Breeze Coal Bed Natural Gas Project - Baseline Water Quality Report  
North Finn, LLC**

Dear Ms. Brookshire:

InterTech Environmental & Engineering, LLC (InterTech) is submitting the annual report on the Baseline Water Quality (BWQ) monitoring project being conducted in the vicinity of the Breeze Coal Bed Natural Gas Project (Breeze Project) for North Finn, LLC (North Finn) to the Routt County Planning Department for their consideration.

## 1.0 INTRODUCTION

North Finn continues to explore the production of coal bed natural gas at the Breeze Field. Although, the Breeze Project is currently not in production, North Finn continues to monitor baseline water quality in the area. The initial permit required North Finn to identify and monitor domestic wells within a 2-mile radius of the project area on a quarterly basis. The results of this monitoring project were submitted to the Routt County Planning Department before the dewatering process began and every three (3) months thereafter during the dewatering phase. The monitoring frequency requirement was changed from quarterly to semi-annually when the permit was renewed in 2004. Monitoring began on August 13, 2001. This document discusses the monitoring results obtained during April and August 2010.

## 2.0 MONITORING NETWORK

Figure 1 shows the location of the domestic and stock wells which fall within the 2-mile radius boundary surrounding the North Finn Breeze Project. As noted in previous reports, each well has been given a unique designator number; BW\_KLT\_1 through BW\_KLT\_7, in order to facilitate the storage of monitoring well data in InterTech's BWQ Database. Monitoring well BW\_KLT\_3 is included in the monitoring network even though it is located approximately ½ mile outside of the 2-mile radius. Wells are monitored and sampled on semi-annual intervals during the months of April and August. Table 2.1 shows that six (6) wells out of the seven (7) wells in the network were sampled during April and August 2010.

### INTERTECH E&E ADDITIONAL OFFICES:

345 Sinclair Street  
Gillette, WY 82718  
307.686.6664

500 W. Lott Street  
Buffalo, WY 82834  
307.684.0252

743 Horizon Court, Suite 110  
Grand Junction, CO 81506  
970.263.8679

600 17<sup>th</sup> St., Suite 2800 South  
Denver, CO 80202-5428  
720.359.1560



**Table 2.1 – North Finn Breeze Project BWQ Monitoring Wells and Month of Sample Collection**

Monitoring Well	April	August
BW_KLT_1	X	X
BW_KLT_2	X	X
BW_KLT_3	-	X
BW_KLT_4	X	X
BW_KLT_5	X	X
BW_KLT_6	X	X
BW_KLT_7	X	X

### 3.0 LIST OF CONSTITUENTS

Each field sample is analyzed for the water quality constituents shown in Table 3.1. These constituents are included in the lab analyses based on the environmental regulations of the State of Colorado and drinking water quality standard parameters. The wells are also monitored for natural gas because its presence can be hazardous. Increased methane levels may also indicate that a monitoring well has been affected by groundwater drawdown in a coal aquifer.

The chemical constituents shown in Table 3.1 have been aggregated into organic, metals, and wet chemistry analytical groups. Copies of the April and August 2010 laboratory reports are included in Attachment 1. Please refer to the Breeze Project Analytical notebook currently maintained in the Routt County Planning Department for historic laboratory reports.

**Table 3.1 - Constituents of Concern and Analytical Methods Used for the Water Quality Samples Obtained at the Breeze Project BWQ Program**

Group/Analyte	Method
<b>Organics</b>	
Methane	GC/FID
Oil & Grease, Total Recoverable	M1664 – Gravimetric
<b>Metals</b>	
Arsenic, total	M206.2 GFAA
Barium, total	M200.7 ICP
Boron, total	M200.7 ICP
Calcium, total	M200.7 ICP
Iron, total	M200.7 ICP
Magnesium, total	M200.7 ICP
Manganese, total	M200.7 ICP
Potassium, total	M200.7 ICP
Sodium, total	M200.7 ICP
<b>Wet Chemistry</b>	
Bicarbonate as CaCO <sub>3</sub>	SM2320B - Titration
Carbonate as CaCO <sub>3</sub>	SM2320B - Titration
Chloride	M325.2 – Colorimetric
Conductivity @25C	M120.1 – Meter
Fluoride	SM4500F-C

Group/Analyte	Method
Hardness as CaCO <sub>3</sub> (total)	SM2340B – Calculation
Hydroxide as CaCO <sub>3</sub>	SM2320B – Titration
Nitrate/Nitrite as N	M353.2 - H <sub>2</sub> SO <sub>4</sub> preservative
pH (lab)	M150.1 - Electrometric
Residue, Filterable (TDS) @180	M160.1 - Gravimetric
Sulfate	M375.3 - Gravimetric
Total Alkalinity	SM2320B - Titration

#### 4.0 ANALYTICAL RESULTS

##### Organic Analysis

Methane and "Oil and Grease" are the two (2) organic compounds being monitored on a routine basis at the Breeze Project. During April 2010, Oil and Grease was not detected within any of the samples collected from the wells.

During 2010, analysis indicated a presence of low levels of methane in wells BW\_KLT\_04, (0.01 mg/L) and BW\_KLT\_05 (0.258 mg/L) in April. The low levels of methane were present in BW\_KLT\_04 (0.01 mg/L) and BW\_KLT\_05 (0.72 mg/L) in August. These two (2) wells have exhibited consistently low methane concentrations in past years and undetected levels in the remaining well.

##### Metals Analysis

Metal concentrations in samples obtained from the target wells are compared to the water quality criteria listed in the Colorado Department of Public Health and Environment, Ground water Regulation 41 – The Basic Standards for Ground Water.

The metal concentrations during the April 2010 monitoring period were compared to the water quality criteria listed in the Colorado Department of Health and Environment, The Basic Groundwater Standards Regulation 41.

Most of the metal parameters analyzed as part of the Breeze Project BWQ project met drinking water quality standards and were consistent with historical levels. However, manganese levels recorded in wells BW\_KLT\_06 (0.49 mg/L) and BW\_KLT\_07 (0.52 mg/L) exceed the standard in April 2010. The manganese levels recorded at wells BW\_KLT\_06 (0.26 mg/L) and BW\_KLT\_06 (0.57 mg/L) exceed the standard in August 2010. The iron levels recorded in April 2010 at BW\_KLT\_05 (0.32 mg/L) and BW\_KLT\_06 (11.9 mg/L) wells exceed the standards. The value recorded at well BW\_KLT\_07 (35.3 mg/L) exceed the standard in August 2010, as well.

Iron and Magnesium concentrations were detected above the Agriculture Standards during the April and August 2010 monitoring.

##### Wet Chemistry

Most of the wet chemistry parameters analyzed as part of the Breeze Project BWQ met drinking water quality standards and were consistent with historical levels. However, the sulfate recorded values in April 2010 at the BW\_KLT\_01 (650 mg/L), BW\_KLT\_02 (250 mg/L), BW\_KLT\_06 (2,700 mg/L), and BW\_KLT\_07 (1,900 mg/L) wells exceed the drinking water quality standards. The sulfate recovered

values in August 2010 at the wells BW\_KLT\_01 (690 mg/L), BW\_KLT\_02 (280 mg/L), BW\_KLT\_03 (490 mg/L), BW\_KLT\_05 (250 mg/L), BW\_KLT\_06 (3,320 mg/L), and BW\_KLT\_07 (3,100 mg/L) exceed the drinking water standards.

The pH values recorded in April 2010 at the BW\_KLT\_4 (pH 9.0) and BW\_KLT\_5 (pH 8.8) wells were above the upper limit of 8.5 standard pH units. The pH values recorded at the BW\_KLT\_4 (pH 8.8) and BW\_KLT\_5 (pH 8.5) wells exceeded the upper limit pH of 8.5 in August, 2010, as well.

The pH exceeded the Agriculture Standards and Sulfate exceeded the Drinking Water Standards during the April and August 2010 monitoring.

### 5.0 SUMMARY AND RECOMMENDATIONS

The following recommendations are based on the data obtained to date for the North Finn Breeze Project. The BWQ Monitoring Program at the North Finn Breeze Project was started in August, 2001 and has continued through April, 2010.

- General water quality found in the North Finn BWQ Monitoring Program wells are consistent with agricultural water in the area. Levels for hardness and calcium are elevated.
- Detectable methane concentrations were observed in wells BW\_KLT\_4 and BW\_KLT\_5 during April 2010 monitoring year. Historic concentrations of methane in the well are similar to those observed in 2009. This well, as others, will be closely monitored for elevated methane concentrations in the future.
- Lab reports indicate that the water quality observed in the domestic and stock wells located in the vicinity of the Breeze Project is consistent with the Agricultural Standards listed in the Colorado Department of Health and Environment, Ground water Regulation 41 – The Basic Standards for Ground Water.

If you have any questions or comments please feel free to contact me at 307-742-4991 or bgoodnough@cbmainc.com.

Sincerely yours,  
InterTech Environmental & Engineering, LLC



Brian Goodnough  
Environmental Technician

BG:sb

Enclosures

cc: Wayne Neumiller, North Finn  
File

