Exhibit A Statement of Work

WATER ACTIVITY NAME – Drip Irrigation Field Trial for Sustainable Potato Cropping in the San Luis Valley

GRANT RECIPIENT - Colorado Potato Administrative Committee - Area II

FUNDING SOURCE - \$40,000 Rio Grande Basin Account (No Statewide funds requested)

INTRODUCTION AND BACKGROUND

Provide a brief description of the project. (Please limit to **no more than 200 words**; this will be used to inform reviewers and the public about your proposal)

The Colorado Potato Administration Committee (CPAC), working with Colorado State University (CSU) and numerous investigators, has researched subsurface drip irrigation (SDI) as potential alternative to center-pivot irrigation practices. With a concern for the long-term future of the potato industry, particularly in the seriously drought-impacted San Luis Valley (SLV), CPAC seeks \$40,000 in Rio Grande Basin WSRA funds to conduct a "*Drip Irrigation Field Trial for Sustainable Potato Cropping in the San Luis Valley*." Long-term sustainability of the aquifer and effective groundwater management are Rio Grande Basin priorities. This demonstration is essentially a pilot project to field test SDI, and to discover whether it offers a practical, effective, economically viable, and sustainable water delivery system. Within the current growing season, CPAC, together with Beiriger Farms, Christensen Farm, and CSU, hopes to demonstrate SDI's improved irrigation efficiencies. As potentially an alternative approach to the management of water in the San Luis Valley, SDI uses 20%-30% less water and potentially produces significantly better potato crop yields. With a total Project cost of \$156,328, CPAC requests \$40,000 from Basin funds, with 27% matching funds, to field test this proposition and determine the practical and economic feasibility of drip irrigation for potato producers in the Valley.

OBJECTIVES

List the objectives of the Project

To field test subsurface drip irrigation on two potato farms over one growing season, and to determine the practical and economic feasibility of drip irrigation for potato producers in the Valley.

TASKS

Provide a detailed description of each task using the following format

TASK 1 – Preparation

<u>Description of Task</u> - Measure each field and conform the layout to the plan provided by Diversity D (Ross Roberts) per the attached engineering drawings.

<u>Method/Procedure</u> – Confirm measurements and lay out the dripline plan.

<u>Deliverable</u> – Ready to install the SDI system.

TASK 2 – System Installation

<u>Description of Task</u> – Create the taperows

<u>Method/Procedure</u> - Plow along driplines and inject the tape per specifications of Diversity D. Verify taperows and confirm/adjust with design. Trench along the end of the dripper lines and install water lines to each field.

<u>Deliverable</u> – Ready to plant.

TASK 3 – Growing and Harvesting (specifications to follow)

<u>Description of Task</u> – Adjust irrigation scheduling as indicated by monitoring and plant needs.

<u>Method/Procedure</u> – Reprogram the drip system controller to achieve the desired results. Achieve water movement to the surface by doing short irrigations multiple times in a 24-hour period.

<u>Deliverable</u> – Proactively respond to the plant's needs by adjusting fertiziler, pesticide, and herbicide applications. Provide basis for studies of water use, plant nutrition, and requirements for herbicides/pesticides and fertilizer.

TASK 3a – Agronomic Monitoring

Description of Task – Monitoring effectiveness of stripline design for subsurface drip irrigation.

Method/Procedure – The Beiriger Drip trial will be set up in different drip layouts to look at optimum success methods. One bank of the field will have buried drip line (permanent installation) underneath each row (34 inch spacing) and buried below potato digger level. Another section will have wider spacing, also buried, but at a shallower depth. Finally, one section will have drip tape over the top (shallow placement) that will be installed after planting. The shallow installation will be "retrievable" and tape will be rolled up for next season's use prior to digging the potatoes. Two different potato varieties planted in 3 different layouts within each section, the standard Norkota Russett (shallow rooted) and the Tabena (deeper rooted).

(i) Moisture Monitoring - Cactus Hill Ag Consulting and Agro Engineering will document moisture status in different parts of the field on a weekly basis with twice weekly monitoring during critical times. This monitoring will use the "feel" method for moisture readings at different depths.

In addition to the visual documentation, Hobo Data Loggers for moisture monitoring will be installed at 3 depths within each treatment. The data loggers record moisture readings at preset intervals (hourly?) and store these readings until they are downloaded to a computer each week. Moisture probes will be placed in the root zone (6"); directly below the root zone (12-16") and at 2 feet at each location.

- (ii) Plant Nutrition Monitoring Petiole samples will be taken for tissue nutrient analysis 4 times during the season from each "treatment". These will be compared graphically and used to predict nitrogen needs for the potato crop.
- (iii) Pest Monitoring Weekly visits for moisture monitoring will include pest scouting of each treatment as well as a numerical evaluation twice during the season of foliar incidence of early blight.
- (iv) Monitoring Final Report A Summary report of the above monitoring will be completed by December 2013, and presented to CPAC and to other partners in this Project, upon approval by CPAC. This report will be included in the final Project report to CWCB, and will include evaluation of the technology and potential extension of the lessons learned from this trial.

<u>Deliverable</u> – Monitoring Time is estimated at 20 weeks X 1.5 Hours, additional time, if required, has been offered as an In-Kind donation. The Monitoring Final Report will be delivered to CPAC, CSU, to Project partners, and to CWCB.

TASK 4 – Economic Study

<u>Description of Task</u> – Determine practicality, economic feasibility, and long-range implications for sustainability of potato production using SDI as compared to center-pivot irrigation.

<u>Method/Procedure</u> - Dr. James Pritchett, CSU Agricultural Economics professor, will provide analysis and an economic feasibility study as an in-kind contribution from CSU. The Project will also tap CSU's expertise from similar work in the Arkansas Valley.

<u>Deliverable</u> – The Final Project Report will be submitted to CPAC in December, 2013, providing the analysis of one full growing season.

Water Supply Reserve Account – Application Form

Revised December 2011

REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

BUDGET

Provide a detailed budget by task including number of hours and rates for labor and unit costs for other direct costs (i.e. mileage, \$/unit of material for construction, etc.). A detailed and perfectly balanced budget that shows all costs is required for the State's contracting and purchase order processes. Sample budget tables are provided below. Please note that these budget tables are examples and will need to be adapted to fit each individual application. Tasks should correspond to the tasks described above.

(next page please)

Budget for Drip Irrigation D	emonstration	on Projec	t					
SYSTEM INSTALLATION	Eqip- ment	Labor	In-Kind	Matching	Total Contribution	GRANT	Total Project Cost	PARTICIPATION
Drip tape	\$47,400		\$39,377	\$8,023		\$0	\$47,400	Diversity D, CPAC
Filter supplies	\$33,670		\$0	\$0		\$33,670	\$33,670	
Chemigation valve and supplies	\$7,082			\$7,082		\$0	\$7,082	Monte Vista Co-op
IPS pipe and supplies	\$7,281			\$7,281		\$0	\$7,281	Beiriger, CPAC
Contollers	\$6,904			\$6,904		\$0	\$6,904	CPAC
Electrical supplies	\$4,449			\$4,449		\$0	\$4,449	CPAC, MV Co-op
Installation Labor		\$33,592	\$21,969	\$11,623		\$0	\$33,592	Farm Fresh Direct, MV Co-op
Subtotal	\$106,786	\$33,592	\$61,346	\$45,362		\$33,670	\$140,378	
AGRONOMIC MONITORING						J		
Hobo Data Loggers with mositure sensors	\$7,600			\$1,270		\$ 6,330	\$7,600	CPAC
Complete petiole analysis	\$1,850			\$1,850			\$1,850	Christensen Farms
Petiole Nitrate analysis	\$650			\$650		\$ -	\$650	Christensen Farms, CPAC
Monitoring Labor		\$2,000		\$2,000		\$ -	\$2,000	SLV Irrigation Disrict
Summary Reporting		\$1,850		\$1,850		\$ -	\$1,850	Wilbur Ellis, SLV Irr. Dist., CPAC
Subtotal	\$10,100	\$3,850	\$0	\$7,620		\$6,330	\$13,950	
ECONOMIC STUDY	\$0	\$2,000	\$2,000	\$0			\$2,000	CSU Inkind
TOTAL PROJECT	\$116,886	\$39,442	\$63,346	\$52,982	\$116,328	\$40,000	\$156,328	74.4% Total Project paid by Match fur



Estimate

1579

Date

Revised & Current

SPECIALIZING IN DRIP IRRIGATION 2023 FM 1698 Brownfield, TX 79316

Estimate

1579

Date	Revised & Current
3/5/2013	
Approved	S/O-P/O No.

Name / Address

Project / Location / Ship To

Name / Ad	dress		Project / Location / Ship To						
Colorado	State Irrigation		Roger Chris	tianson					
PO Box 3									
	rd. CO 81067								
ROCKY PO	1 u. CO 01007								
			0-l D	D'	0	- / ^	ODM		
			Sales Rep	Designer		g / Acres	GPM		
			RR	RR	34"	/ 12.74			
Qty	Item		Description			Cost	Total		
- 1	429-040	4" IPS Coupling - s x s				11.52	69.1		
- 1	401-422	4 x 4 x 3 IPS Reducing Tee - s	x s x s			37.26	37.2		
	406-040	4" IPS Elbow 90 deg - s x s				25.10	25.		
	438-420	4 x 2 IPS Reducer Bushing - s >				15.20	15.		
	437-422	4 x 3 IPS Reducer Bushing - s x	S			15.24	45.		
2	429-030	3" IPS Coupling - s x s				7.96	15.		
	436-030	3" IPS Male Adapter - th x s				10.68	21.		
14	406-030	3" IPS Elbow 90 deg s x s				14.04	196.		
8	401-030	3" IPS Tee - s x s x s				20.60	164.		
9	447-030	3" IPS Cap - s				6.90	62.		
2	420-030	3" IPS Cross - s				29.22	58.		
8	401-338	3 x 3 x 2 IPS Reducing Tee - s	X S X S			22.36	178.		
	437-338	3 x 2 IPS Reducer Bushing - s >				6.80	54.		
	438-338	3 x 2 IPS Reducer Bushing - s x				6.80	13.		
	438-335	3 x 1 IPS Reducer Bushing - s x				6.80	54.		
	447-020	2" IPS Cap - s	tii			1.98	7.		
	406-020	2" IPS Elbow 90 deg - s x s				3.86	27.		
	401-020	2" IPS Tee - s x s x s				4.76	19.		
	438-249		. th			4.08	16.		
- 1		2 x 1 IPS Reducer Bushing - s x	tn						
1	450-005	1/2" IPS Plug - th				1.74	1.		
		Subtotal					1,084.		
40	4-40IPS-BE	4" IPS Schedule 40 Pipe				2.25	90.		
	3-100IPS-BE	3" IPS Pipe 100 psi / SDR-41 - 1	RE			0.77	1,155.		
	2-125IPS-BE	2" IPS Pipe 125 psi / SDR-32.5				0.39	390.		
1,000	2-123H 3-BE	2 If 3 i ipc 123 psi / 3DK-32.3	- BL			0.57	370.		
		Subtotal					1,635.		
800	18/2-MC	18/2 Multi-Conductor (Solid) In	sulated Direct Buri	al Sprinkler W	ire 300V	0.14	112.		
		Copper							
	14/1-SO/SDT-O	14/1 SOLID VNTC Insulated D				0.14	140.		
50	14/4-ST/SDT	14/4 Stranded VNTC (Tray Cab	le) Insulated Direct	Burial 600V C	Copper Wire	0.95	47.		
		Subtotal					299.		
1	31NMCJRSPLC	NMC-64 JUNIOR Controller Do MemKey BKUp, 24VAC Transi			VAC,	3,452.00	3,452.		
			,	T.F.					
		Subtotal					3,452.		
2	80-ELL-200	2" UL 90 deg. Elbow Sched.80	- Standard Radine	Sween		3.00	6.		
	CABLE-1/8GALV	Galvanized Cable 1/8" / Price pe		осер		0.25	7.		
	TB-3/4X12	3/4 X 12 Turnbuckle	501			42.66	42.		
1	1D-3/7A12	3/4 A 12 Tulliouekie				42.00	72.		
			Price per Ac	ro	T	otal			
			Frice per Ac	16	10	Jiai			

Phone 806.637.0593

Fax 806.288.6200

sales@diversityd.com

www.diversityd.com

PO Box 307



Estimate

1579

Date	Revised & Current
3/5/2013	
Approved	S/O-P/O No.
	,

Name / Address Project / Location / Ship To Roger Christianson **Colorado State Irrigation**

Rocky Ford. CO 81067				
	Sales Rep	Designer	Spacing / Acres	GF

			0.1.0				
			Sales Rep	Designer	Spacin	g / Acres	GPM
			RR	RR	34"	/ 12.74	
Qty	Item		Description			Cost	Total
2	CABLE-1/8GALV	Galvanized Cable 1/8" / Price p	er foot			0.25	0.50
1	PAINT-SET	Paint, Acetone & Brush Set				42.00	42.00
1	C15N404X000V00	B-W Chem-Feed Pump C1500N	355.00	355.00			
1	PCORD-25	Power Cord for Fertilizer Pump				25.00	25.00
1	GRNDROD-5/8	Ground Rod 5/8 x 8 ft.				19.60	19.60
1	GRNDCLAMP-5/8	Ground Rod Clamp (Sizes up to				3.00	3.00
1	ABS-14X10X6	ABS Enclosure 14 x 10 x 6 - Fi	berglass / Weatherp	roof		65.00	65.00
2	750XBXM4L-24A	Ice Cube Relay - 24V/10amp - 8				25.00	50.00
2	8501NR51	8-pin Socket - SINGLE Tier - 1	0A-300V			8.50	17.00
	FLEX-050	1/2" Flexible PVC Conduit				0.95	95.00
	FLEX-END-S-050	1/2" Flexible PVC Straight End				4.55	113.75
2	CORDGRIP.50-2847	1/2" Cord Grip w/Seal Ring & 1	Nut (.2847)			2.50	5.00
	HPKILL	High Pressure Kill Switch				135.00	135.00
1	PRDIFF	Pressure Differential Switch - 0				235.00	235.00
3	O-BOX/1-A3	Outlet Box Aluminum - Single		3		5.00	15.00
3	B-PLATE-A-1	Blank Plate/Cover - Aluminum				1.50	4.50
2	CIRCBRK-10A-1P	Chint Mini Circuit Breaker D-C			(for 110V)	12.00	24.00
1	D-RAIL	D-Rail, Din Mounting Track, A				11.00	11.00
1	2KVA	2.0 KVA Transformer - Single l				260.00	260.00
1	CIRCBRK-10A-2P	Chint Mini Circuit Breaker D-C	urve 10A 2-Pole 48	30VAC 5kA IR		25.00	25.00
		Subtotal					1,556.51
	DISC-1	GROWER Parts Discount-Ag				-13,498.78	-13,498.78
	INSTALL-D	System Installation				10,623.47	10,623.47
1	1-ALTERATION	**Any alteration or deviation from	om above specificat	ions involving	extra costs		
		will become an extra charge over	er and above the esti	imate. All agre	ements		
		contingent upon delays beyond	our control.				
	2-LIMIT	**Estimate Pricing Good for 20	DAYS unless state	d otherwise.			
	3A-PIPE	**Pipe prices are subject to char	nge without notice.	We are unable	to guarantee		
		prices because of unstable resin	costs.				
1	4-DITCH	**Additional charges will be in-				1	
1	5-RIP	**Pre-Ripping or other preparat	ion of soil prior to i	njection of tape	is NOT	1	
		included in this estimate.					
	6-LIABILITY	**Tractor for injection plow is I		wer must make			
1		accomodations to supply tractor					
	7-ELECTRICIAN	**Any charges incurred resultin					
1		electrician will be the customer	's responsibility and	will be added	to the final	1	
		bill.		_			
1	8-ENGINEER	**If an engineer's approval is re					
1		costs incurred will be the custor	ner's responsibility	and will be add	ed to the		
1		final bill.					
			Price per Ac	re	T	otal	

Phone 806.637.0593 Fax 806.288.6200 www.diversityd.com sales@diversityd.com

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Phone 806.637.0593

Estimate

1579

Date	Revised & Current
3/5/2013	
Approved	S/O-P/O No.

Name / A	ddress		Project / Loc	cation / Ship To				
O Box 3	o State Irrigation 307 ord. CO 81067		Roger Chris	tianson				
			Sales Rep	Designer	Spacing	/ Acres	GP	M
			RR	RR	34" /	12.74		
Qty	Item		Description			Cost	Tot	tal
	9-INJECTION 10A-SHIPPING 10B-PUMP 11A-PAYMENTS 12-READ	**Pending water sample: It may be precipitants. Injection equipment this estimate. **Any applicable shipping charge: **Must verify and approve the put specifications needed on customer made-to-order and cannot be retured to approval of bid, payments Terms agreement. I HAVE READ AND UNDERSTATIONS **Terms agreement.** I HAVE READ AND UNDERSTATIO	may be necessary s will be included mp listed above for 's given application ned. are to be made a AND ABOVE EX	on the final invorcorrect pump on. Pumps are	cluded on voice. yment			
			Price per Ac	re	To	tal	\$34,993	.6

Page 4

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SCHEDULE

ACTION 2013	DESIGN & PREP	NTP	INSTALL	MONITOR	PLANT	GROW	HARVEST	ANALYZE	REPORT
March									
April									
May									
June									
July									
August									
September									
October									
November									
December									

PAYMENT

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 5 percent of the entire water activity budget will be withheld until final project/water activity documentation is completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.

Exhibit B

Project Maps

Project Location Aerial Photo

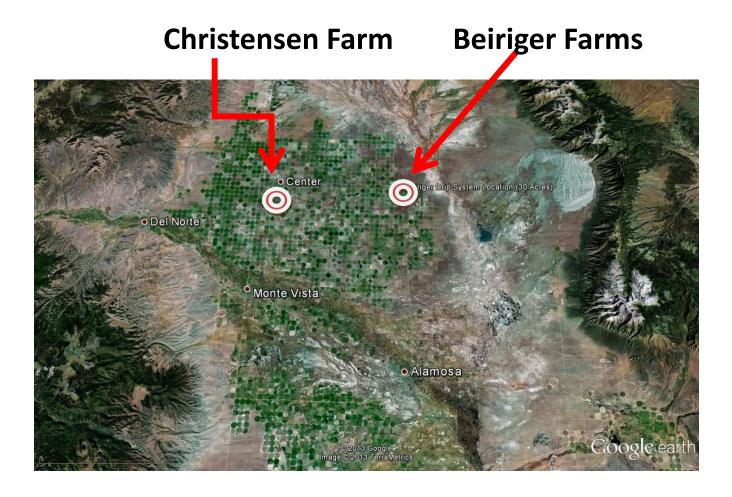


Exhibit B

Project Maps

Christensen Farm Aerial Photo



Exhibit B

Project Maps

Beiriger Farms Aerial Photo



Exhibit C

NRCS Snowpack Historical Data

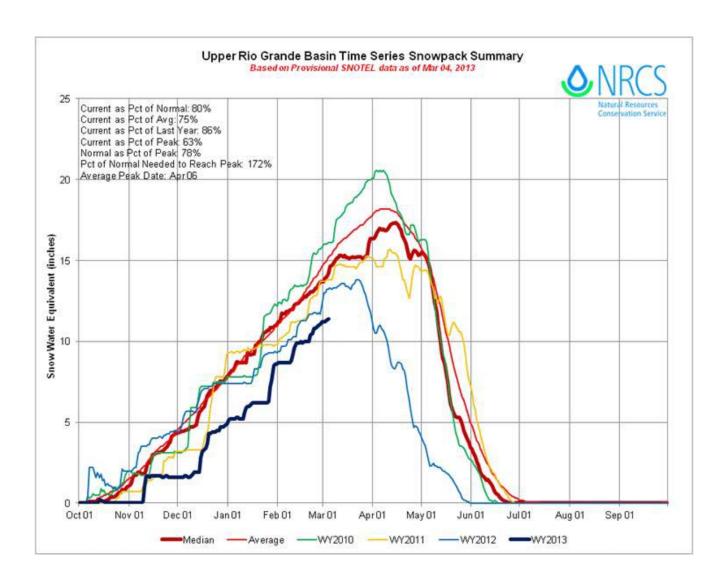
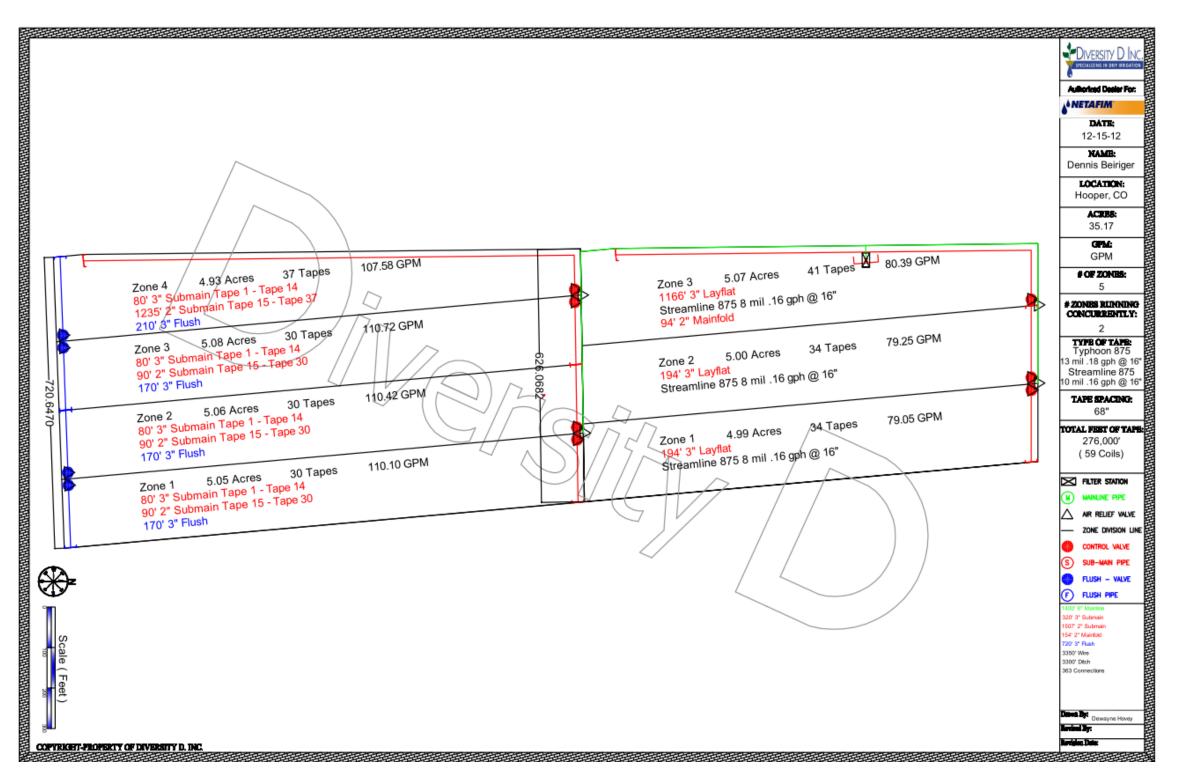


Exhibit C

Project Design – Beiriger Farms



DIVERSITY D INC **Authorized Dealer For:** NETAFIM DATE: 12-18-12 NAME: Roger Christianso 6.59 Acres 38 Tapes 143.76 GPM 80' 4" Submain Tape 1 - Tape 14 136' 3" Submain Tape 15 - Tape 38 LOCATION: Zone 1 9.90 Acres 59 Tapes 150.33. GPM 335' 4" LayFlat Submain Center, CO 221' 3" Flush and 120' 3" Blank ACRES: 79.06 GPM: Zone 2 6.59 Acres 38 Tapes 143.63 GPM 80' 4" Submain Tape 1 Tape 14 136' 3" Submain Tape 15 - Tape 38 GPM # OF ZONBS: 221' 35 Flush # ZONES RUNNING Zone 2 9.89 Acres 59 Tapes 150.13. GPM CONCURRENTLY: Zone 3 6.58 Acres 38 Tapes 89 4 Submain Tape 1 - Tape 14 36 Submain Tape 15 - Tape 38 335' 4" LayFlat Submain 143.50 GPM TYPE OF TAPE: Typhoon 875 3 mil .18 gph @ 16" 221' 3 Flush Streamline 875 8 mil .16 gph @ 16* TAPE SPACING: 143.38 GPM 6.57 Acres 38 Tapes 68" 80' 4" Submain Tape 1 - Tape 14 136' 3" Submain Tape 15 - Tape 38 Zone/3 9.88 Acres 59 Tapes / 149.94. GPM TOTAL FEET OF TAPE: 221' 3" Flush 335/4"/LayFlat Submain 624,000 (130 Coils) Zone 5 6.54 Acres 39 Tapes 142.70 GPM FILTER STATION 80' 4" Submain Tape 1 - Tape 14 M MAINLINE PIPE 142' 3" Submain Tape 15 - Tape 39 AIR RELIEF WALVE 383' 2" Manifold 221' 3" Flush ZONE DIVISION LINE 9.86 Acres Zone 4 59 Tapes 149.74. GPM Zone 6 6.66 Acres 45 Tapes 335' 4" LayFlat Submain 145.20 GPM S SUB-MAIN PIPE 80' 4" Submain Tape 1 - Tape 14 FLUSH - VALVE 176' 3" Submain Tape 15 - Tape 45 ₩ F FLUSH PIPE 825' 3" Manifold 255' 3" Flush 1200° 6" LayFlat Mainine 480° 4" Submain 1340° 4" LayFlat Submain 1340° 4" LayFlat Submain 1825° 3" Manifold 1330° 3" Rieth 200° 3" Blank Pipa 11,250° Wire COPYRIGHT-PROPERTY OF DIVERSITY D. INC.

Exhibit C

Project Design – Christensen Farm

Exhibit C

Photos













Exhibit C

Supplemental Information

Efficiency of Subsurface Drip Irrigation for Potato Production under Different Dry Stress Conditions

• M. A. BADR, S. D. ABOU HUSSEIN, W. A. EL-TOHAMY, N. GRUDA

Abstract

Efficient water delivery systems such as drip irrigation can contribute towards increasing crop yield potential, improving crop water and fertilizer use efficiency. However, critical management considerations such as subsurface drip irrigation are necessary to attain improved irrigation efficiencies and production benefits particularly under arid regions. The objective of this study was to determine the effect of two irrigation methods, surface and subsurface drip irrigation combined with four irrigation levels, 100, 80, 60 and 40% of crop evapotranspiration on yield and yield components of potato grown on sandy soil. The field experiments were conducted in the years 2008 and 2009. In terms of soil water availability to plants, subsurface drip provided more favorable growth conditions for plant growth and maintained higher soil water content at the root zone, which resulted in a significant higher potato yield compared to surface drip irrigation. The difference between the two irrigation methods on yield components was concentrated on the mean tuber weight per plant, while no significant difference was found on the tuber number per plant. Reducing the amounts of applied water significantly decreased total potato yield and its components. Under subsurface drip irrigation, reducing amounts of applied water to 80% ETc gave comparable yield and yield components to surface drip at full irrigation supply, indicating that 20% irrigation water can be saved without affecting the potato yield. At all irrigation levels, subsurface drip recorded higher water use efficiency (WUE) over surface drip. Maximum value was observed at 40% ETc. Fertilizer use efficiency (FUE) was also higher under subsurface drip and reduced significantly under both irrigation methods with increasing water deficit. These results suggested that subsurface drip offers the potential of better water management with respect to saving and distribution of water in the root zone and to obtain maximum yield accompanied by highest water and FUE.

Appendix 1 Reference Information

The following information is available via the internet. The reference information provides additional detail and background information.

- Water Supply Reserve Account main webpage:
 - o http://cwcb.state.co.us/LoansGrants/water-supply-reserve-account-grants/Pages/main.aspx
- Water Supply Reserve Account Basin Fund Application Details:
 - o http://cwcb.state.co.us/LoansGrants/water-supply-reserve-account-grants/Pages/BasinWaterSupplyReserveAccountGrants.aspx
- Water Supply Reserve Account Statewide Fund Application Details:
 - o http://cwcb.state.co.us/LoansGrants/water-supply-reserve-account-grants/Pages/StatewideWaterSupplyReserveAccountGrants.aspx
- Colorado Water Conservation Board main website:
 - o http://cwcb.state.co.us/
- Interbasin Compact Committee and Basin Roundtables:
 - http://cwcb.state.co.us/about-us/about-the-ibccbrts/Pages/main.aspx/Templates/BasinHome.aspx
- House Bill 05-1177 (Also known as the Water for the 21st Century Act):
 - o http://cwcbweblink.state.co.us/DocView.aspx?id=105662&searchha
 ndle=28318
- House Bill 06-1400 (Adopted the Interbasin Compact Committee Charter):
 - o http://cwcbweblink.state.co.us/DocView.aspx?id=21291&searchhan dle=12911
- Senate Bill 06-179 (Created the Water Supply Reserve Account):
 - o http://cwcbweblink.state.co.us/DocView.aspx?id=21379&searchhan dle=12911
- Statewide Water Supply Initiative 2010:

Water Supply Reserve Account – Application Form Revised December 2011

o http://cwcb.state.co.us/water-management/water-supply-planning/Pages/SWSI2010.aspx

Appendix 2 Insurance Requirements

NOTE: The following insurance requirements taken from the standard contract apply to WSRA projects that exceed \$25,000 in accordance with the policies of the State Controller's Office. Proof of insurance as stated below is necessary prior to the execution of a contract.

13. INSURANCE

Grantee and its Sub-grantees shall obtain and maintain insurance as specified in this section at all times during the term of this Grant: All policies evidencing the insurance coverage required hereunder shall be issued by insurance companies satisfactory to Grantee and the State.

A. Grantee

i. Public Entities

If Grantee is a "public entity" within the meaning of the Colorado Governmental Immunity Act, CRS §24-10-101, et seq., as amended (the "GIA"), then Grantee shall maintain at all times during the term of this Grant such liability insurance, by commercial policy or self-insurance, as is necessary to meet its liabilities under the GIA. Grantee shall show proof of such insurance satisfactory to the State, if requested by the State. Grantee shall require each Grant with Sub-grantees that are public entities, providing Goods or Services hereunder, to include the insurance requirements necessary to meet Subgrantee's liabilities under the GIA.

ii. Non-Public Entities

If Grantee is not a "public entity" within the meaning of the GIA, Grantee shall obtain and maintain during the term of this Grant insurance coverage and policies meeting the same requirements set forth in §13(B) with respect to sub-Grantees that are not "public entities".

B. Sub-Grantees

Grantee shall require each Grant with Sub-grantees, other than those that are public entities, providing Goods or Services in connection with this Grant, to include insurance requirements substantially similar to the following:

i. Worker's Compensation

Worker's Compensation Insurance as required by State statute, and Employer's Liability Insurance covering all of Grantee and Sub-grantee employees acting within the course and scope of their employment.

ii. General Liability

Commercial General Liability Insurance written on ISO occurrence form CG 00 01 10/93 or equivalent, covering premises operations, fire damage, independent Grantees, products and completed operations, blanket Grantual liability, personal injury, and advertising liability with minimum limits as

follows: (a)\$1,000,000 each occurrence; (b) \$1,000,000 general aggregate; (c) \$1,000,000 products and completed operations aggregate; and (d) \$50,000 any one fire. If any aggregate limit is reduced below \$1,000,000 because of claims made or paid, Sub-grantee shall immediately obtain additional insurance to restore the full aggregate limit and furnish to Grantee a certificate or other document satisfactory to Grantee showing compliance with this provision.

iii. Automobile Liability

Automobile Liability Insurance covering any auto (including owned, hired and non-owned autos) with a minimum limit of \$1,000,000 each accident combined single limit.

iv. Additional Insured

Grantee and the State shall be named as additional insured on the Commercial General Liability and Automobile Liability Insurance policies (leases and construction Grants require additional insured coverage for completed operations on endorsements CG 2010 11/85, CG 2037, or equivalent).

v. Primacy of Coverage

Coverage required of Grantee and Sub-grantees shall be primary over any insurance or self-insurance program carried by Grantee or the State.

vi. Cancellation

The above insurance policies shall include provisions preventing cancellation or non-renewal without at least 45 days prior notice to the Grantee and the State by certified mail.

vii. Subrogation Waiver

All insurance policies in any way related to this Grant and secured and maintained by Grantee or its Sub-grantees as required herein shall include clauses stating that each carrier shall waive all rights of recovery, under subrogation or otherwise, against Grantee or the State, its agencies, institutions, organizations, officers, agents, employees, and volunteers.

C. Certificates

Grantee and all Sub-grantees shall provide certificates showing insurance coverage required hereunder to the State within seven business days of the Effective Date of this Grant. No later than 15 days prior to the expiration date of any such coverage, Grantee and each Sub-grantee shall deliver to the State or Grantee certificates of insurance evidencing renewals thereof. In addition, upon request by the State at any other time during the term of this Grant or any sub-grant, Grantee and each Subgrantee shall, within 10 days of such request, supply to the State evidence satisfactory to the State of compliance with the provisions of this §13.

Appendix 3 Water Supply Reserve Account Standard Contract Information

NOTE: The standard contract is required for WSRA projects that exceed \$100,000. (Projects under this amount will normally be funded through a purchase order process.) Applicants are encouraged to review the standard contract to understand the terms and conditions required by the State in the event a WSRA grant is awarded. Significant changes to the standard contract require approval of the State Controller's Office and often prolong the contracting process.

It should also be noted that grant funds to be used for the purchase of real property (e.g. water rights, land, conservation easements, etc.) will require additional review and approval. In such cases applicants should expect the grant contracting process to take approximately 3 to 6 months from the date of CWCB approval.

The standard contract is available here under the header "Additional Resources" on the right side:

http://cwcb.state.co.us/LoansGrants/water-supply-reserve-account-grants/Pages/BasinWaterSupplyReserveAccountGrants.aspx