

Skinner, Corey

From: Hattie Zobott <hattie.zobott@brockwayeng.com>
Sent: Monday, January 30, 2017 10:59 AM
To: Skinner, Corey
Subject: RE: scarrow
Attachments: Scarrow Farm Analysis Spreadsheet-01302017.xlsx

Dear Corey,

Attached is the revised mitigation cfs for the Scarrow permit and transfer.

Thank you,

Hattie

From: Skinner, Corey [mailto:Corey.Skinner@idwr.idaho.gov]
Sent: Monday, January 30, 2017 9:43 AM
To: Hattie Zobott <hattie.zobott@brockwayeng.com>
Subject: RE: scarrow

Hattie,

When you get a chance, can you call me on the Scarrow stuff?

Thanks,

Corey

17. This right authorizes the storage of an annual total of 150.1 acre-feet, 6.1 acre-feet to be used for the initial filling or carryover storage of the pond, 3.0 acre-feet for the replacement of losses due to seepage and evaporation, and up to 141.0 acre-feet for additional refills for irrigation from storage use.

From: Hattie Zobott [mailto:hattie.zobott@brockwayeng.com]
Sent: Friday, January 27, 2017 3:00 PM
To: Skinner, Corey <Corey.Skinner@idwr.idaho.gov>
Subject: scarrow

Corey,

See spreadsheet

Hattie Zobott, P.E.

Brockway Engineering, PLLC
2016 Washington St. North, Suite 4
Twin Falls, ID 83301
(208) 736-8543

Exhibit A
Jim Scarrow
Pond Storage Volume

3/11/2016 9/14/2016 1/30/2017 Revised

Brockway Engineering, PLLC

Description	Volume		Notes
Pond Volume	6.07	afa	NRCS contract 6-7 afa, Scarrow Measured 02/03/16
Surface Area	1.02	afa	
Evaporation	3.03	afa	
Seepage for pond	0.11	afa	
Total Fill	9.21	afa	
Dry Up*	2.50	acres	
*Only evaporation and initial fill considered. See narrative for explanation			

Historic Consumptive Use	3.68	afa	Allan and Robison 2012
Max IDWR Irrigation Diversion Rate	0.02	cfs	per Idaho Code 42-202
Max IDWR Diversion Volume to Storage for Irrigation	5	afa	per Idaho Code 42-202
Headgate allowance for Hagerman	4	afa	
Seepage for High Plasticity Clay	0.0003	ft/day	
Seepage/acre of irrigation	0.32	afa	

Multiple Fill Volume Calculations		
Acreage for Additional Fill Volume Needed	28.2	acres
Irrigation Storage Needed	141.0	afa
Irrigation Diversion--Flow Through	0.56	cfs

Corrected 01/30/2017

Corrected 01/30/2017

Mitigation By Source														
Irrigation Diversion	Before Mitigation						Dry Up				Net Irrigation			
Total Acreage Birch Creek	48.6	acres	2.54	cfs	cfs/acre	2.5	2.5	acres	0.160	cfs	46.1	acres	2.380	cfs
37-795	48.6	acres	0.70	cfs	0.0144		2.5	acres	0.036	cfs	46.1	acres	0.664	cfs
37-796	48.6	acres	0.70	cfs	0.0144				0.036	cfs	46.1	acres	0.664	cfs
37-798	42.0	acres	0.64	cfs	0.0152				0.038	cfs	39.5	acres	0.602	cfs
37-3155	25.0	acres	0.50	cfs	0.0200				0.050	cfs	22.5	acres	0.450	cfs
									subtotal	0.160	cfs	46.1	acres	2.380
Waste Water Acreage/Unnamed Stream														
36-15094	20.4	acres	0.61	cfs			2.5	acres	0.074884	cfs	17.9	acres	0.54	cfs
36-10446	3.0	acres	0.09	cfs			2.5	acres	0.075	cfs	0.5	acres	0.02	cfs
Net Irrigation**											46.1	acres		
**While Pond Permit in Existence														