





Buckman Direct Diversion Project

*A joint regional project of the City of Santa Fe and Santa Fe County to build a reliable and sustainable water supply.*

## MEMORANDUM

Date: May 22, 2014

To: Buckman Direct Diversion Board

From: Rick Carpenter, BDD Project Manager *RC*

Subject: **Contract Amendment of \$49,000 (Exclusive on NM GRT) for Geosystems Analysis, Inc., for On-going/Extended Habitat Restoration Efforts for the BDD Project – Upland Hand Seeding**

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### BACKGROUND

The BDD Project is required to perform certain environmental mitigation measures pursuant to the Project's NEPA Environmental Impact Statement. Generally, the BDD is required to remove certain non-native vegetation, re-vegetate the areas with native riparian and upland species, and maintain the newly restored habitat until it becomes naturally self-sufficient. These tasks have been completed with the exception of hand seeding the upland habitat. The extended drought and challenging soil moisture issues have extended this effort over the last two years, but soil moisture levels are back up and a normal to wetter than normal spring/summer is anticipated so the time has finally come to complete this seeding effort.

GeoSystems Analysis will seed native grasses and forbs across the Upland Habitat mitigation area to comply with the Buckman Direct Diversion Habitat Mitigation Plan. The Upland Habitat area is currently composed of native shrubs of variable densities and widely scattered juniper and saltcedar trees, but is relatively void of native perennial grasses and forbs. This project will involve purchasing a diverse native seed mix and hand seeding an approximately 14-acre area along Canada Ancha arroyo, adjacent to the BDD intake and raw water lift station near the Rio Grande. The goal is to increase perennial herbaceous plant diversity and cover.





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Hand seeding is required to avoid damaging existing native shrubs and to minimize impacts on biological soil crusts (i.e., cryptogamic soil) that are important for stabilizing soils against erosion and providing valued sources of plant nutrients. The seeding mix will be applied at a rate of approximately 42 lbs pounds/acre and will include cool and warm season perennial grasses and perennial forbs. Field crews will minimize damage, to the extent practicable, to the biological soil crusts. Seeding will be performed in late June/early July 2015 prior to typical start of the summer monsoon season but including residual soil moisture from winter/spring snows.

The cost for performing this task, including seed, labor, materials and incidentals is \$49,000.00 (exclusive of New Mexico GRT).

### **RECOMMENDATION**

Staff recommends approval of the requested contract amendment in the amount of \$49,000.00 (exclusive of NM GRT).



**BUCKMAN DIRECT DIVERSION BOARD  
AMENDMENT No. 4 TO  
PROFESSIONAL SERVICES AGREEMENT  
WITH GEOSYSTEMS, INC.**

This AMENDMENT No. 4 (the "Amendment") to the PROFESSIONAL SERVICES AGREEMENT, dated September 13, 2012 and as subsequently amended (the "Agreement"), is made between the Buckman Direct Diversion Board (the "BDDDB") and GeoSystems Analysis Inc. ("Contractor"). The date of this Amendment shall be the date when it is executed by the BDDDB Chair.

**RECITALS**

A. Under the terms of the Agreement, Contractor has agreed to provide professional services to the BDDDB.

B. Pursuant to Article 17 of the Agreement, and for good and valuable consideration, the receipt and sufficiency of which are acknowledged by the parties, the BDDDB and Contractor agree as follows:

1. **SCOPE OF SERVICES**

Article 1 of the Agreement is amended so that the Scope of Services adds Task 11 as described in Exhibit "A" attached hereto.

2. **COMPENSATION**

Article 4, of the Agreement is amended to increase the amount of compensation by a total of forty nine thousand dollars (\$49,000), plus applicable gross receipts taxes so that Article 4 reads as follows:

A. The BDDDB shall pay to Contractor in full payment for services rendered, a sum not to exceed two hundred thirty six thousand three hundred sixty six dollars (\$236,366), plus applicable gross receipts taxes.

B. Contractor shall be responsible for payment of gross receipts taxes levied by the State of New Mexico on the sums paid under this Agreement.

C. Invoices for services will be made on a monthly basis. Payment shall be made upon receipt and approval by the BDDDB of detailed statements containing a report of services completed. Compensation shall be paid only for services actually performed.

**3. AGREEMENT IN FULL FORCE.**

Except as specifically provided in this Amendment, the Agreement remains and shall remain in full force and effect, in accordance with its terms.

IN WITNESS WHEREOF, the parties have executed this Amendment No. 4 to the Professional Services Agreement as of the dates set forth below.

***[BALANCE OF PAGE INTENTIONALLY LEFT BLANK;***


***SIGNATURE PAGE FOLLOWS]***

**BUCKMAN DIRECT DIVERSION BOARD**

By: \_\_\_\_\_  
Board Chair

Date: \_\_\_\_\_

**APPROVED AS TO FORM**

  
\_\_\_\_\_  
Nancy R. Long, BDDDB Counsel

**APPROVED**

\_\_\_\_\_  
Oscar S. Rodriguez, City Finance Director

\_\_\_\_\_  
Business Unit/Line Item

**ATTEST**

\_\_\_\_\_  
City Clerk

File Date: \_\_\_\_\_

**CONTRACTOR**

GeoSystems Analysis, Inc.

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

NM Taxation & Revenue

CRS # \_\_\_\_\_

City of Santa Fe Business

Registration # \_\_\_\_\_

## **Exhibit A**

### **Scope of Services**

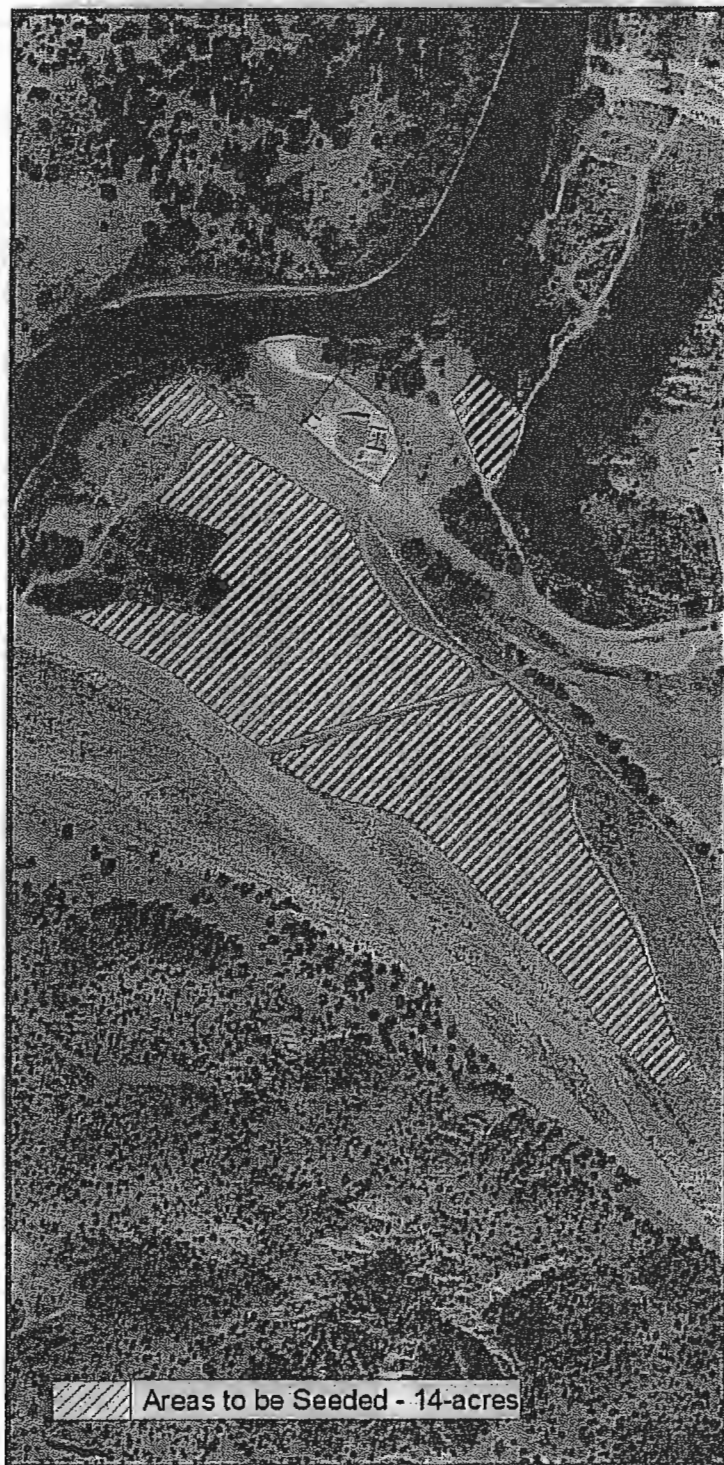
#### **Task 11**

##### **Upland Mitigation Seeding**

GeoSystems Analysis will seed native grasses and forbs across the Upland Habitat mitigation area to comply with the Buckman Direct Diversion Habitat Mitigation Plan. The Upland Habitat area is currently composed of native shrubs of variable densities and widely scattered juniper and saltcedar trees, but is relatively void of native perennial grasses and forbs. This project will involve purchasing a diverse native seed mix and hand seeding an approximately 14-acre area along Canada Ancha (Figure 1). The goal is to increase perennial herbaceous plant diversity and cover.

Hand seeding is required to avoid damaging existing native shrubs and to minimize impacts on biological soil crusts (i.e., cryptogamic soil) that are important for stabilizing soils against erosion and providing valued sources of plant nutrients. The seeding mix (Table 1) will be applied at a rate of approximately 42 pounds/acre and will include cool and warm season perennial grasses and perennial forbs. Field crews will minimize damage, to the extent practicable, to the biological soil crusts. Seeding will be performed in late June/early July 2015 prior to typical start of the summer monsoon season.

The cost for performing this task, including seed, labor, materials and incidentals is \$49,000.00, exclusive of New Mexico GRT.



### Buckman Direct Diversion Upland Seeding Area Map

Source(s): Base Map Imagery  
served online via ESRI Base  
Map Server.  
Geographic Projection of each  
data frame = UTM, NAD 1983,  
Zone 13N.  
Map created by Todd Caplan,  
GeoSystems Analysis, Inc.  
February 17, 2015



Source(s): National Geographic  
served online via ESRI Base Map Server.

Figure 1. Seeding Area Map



Table 1. Proposed seed mix and seeding rate.

Scientific name	Common Name	Life Form	Season/ Duration	Adapted to Coarse Textured Soils	Adapted to Medium Textured Soils	Adapted to Fine Textured Soils	# seeds/ ft <sup>2</sup>	# seeds / acre	# seeds/ pound	pounds pl <sup>s</sup> / acre	Total pounds (assuming 14-acres)
<i>Achnatherum hymenoides</i>	Indian ricegrass	grass	cool	Yes	Yes	No	25	1,089,000	141,000	7.72	108
<i>Bouteloua curtipendula</i>	Sideoats grama	grass	warm	Yes	Yes	Yes	20	871,200	191,000	4.56	64
<i>Bouteloua gracilis</i>	Blue grama	grass	warm	Yes	Yes	Yes	25	1,089,000	825,000	1.32	18
<i>Cleome serrulata</i>	Rocky Mountain Beepiant	forb	annual	No	Yes	Yes					
<i>Elymus elymoides</i>	Squirrel tail	grass	cool	No	Yes	Yes	3	130,680	65,900	1.98	28
<i>Hellanthus annuus</i>	Annual sunflower	forb	annual	Yes	Yes	Yes	20	871,200	192,000	4.54	64
<i>Lapochloa dubia</i>	Green sprangletop	grass	cool	Yes	Yes	Yes	3	130,680	58,500	2.23	31
<i>Oenothera pallida</i>	Pale evening primrose	forb	perennial	Yes	Yes	No	15	217,800	538,000	0.40	6
<i>Pascopyron smithii</i>	Western wheat	grass	cool	No	Yes	Yes	3	130,680	512,000	0.26	4
<i>Plourapids jamaeii</i>	Galleta	grass	warm	Yes	Yes	Yes	20	871,200	110,000	7.92	111
<i>Sporobolus airoides</i>	Alkali sacaton	grass	warm	Yes	Yes	No	25	1,089,000	159,000	6.85	96
<i>Sporobolus cryptandrus</i>	Sand dropseed	grass	warm	Yes	Yes	No	25	1,089,000	1,758,000	0.62	8
<i>Solaria vulpissia</i>	Rains bristlegrass	grass	warm	Yes	Yes	No	25	1,089,000	5,298,000	0.21	3
<b>TOTAL</b>							<b>234</b>	<b>1,089,000</b>	<b>293,000</b>	<b>3.72</b>	<b>52</b>
									<b>42.33</b>		<b>593</b>



## Buckman Direct Diversion Board Summary of Contracts, Agreements, & Amendments

### Section to be completed by department for each contract or contract amendment

1 **FOR:** ORIGINAL CONTRACT ☐ or CONTRACT AMENDMENT ☒

2 Name of Contractor Geosystems Inc.

3 Complete information requested ☒ Plus GRT

☐ Inclusive of GR1

Original Contract Amount: \$81,395.00

Termination Date: \_\_\_\_\_

☒ Approved by BDDB Date: June 30, 2013

☐ or by Project Manager Date: \_\_\_\_\_

Contract is for: Mititagtion

Amendment # 4 to the Original Contract# 12-1008

Increase/(Decrease) Amount \$ 49000

Extend Termination Date to: na

☒ Approved by BDDB Date: Pending

☐ or by Project Manager Date: \_\_\_\_\_

Amendment is for: Increase scope, comp

4 **History of Contract & Amendments:** (option: attach spreadsheet if multiple amendments) ☐ Plus GRT

☐ Inclusive of GR1

Amount \$ 81,395.00 of original Contract# 12-1008 Termination Date: 6/30/2013

Reason: \_\_\_\_\_

Amount \$ 0.00 amendment # 1 Termination Date: 6/30/2014

Reason: term extension

Amount \$ 35,800.00 amendment # 2 Termination Date: na

Reason: Increase comp and scope

Amount \$ 70,171.00 amendment # 3 Termination Date: 6/30/2015

Reason: comp scope and term

Total of Original Contract plus all amendments: \$ 236,366



**Buckman Direct Diversion Board  
Summary of Contracts, Agreements, & Amendments**

**5 Procurement Method of Original Contract:** (complete one of the lines)

RFP# \_\_\_\_\_ Date: \_\_\_\_\_

RFQ ☒ \_\_\_\_\_ Date: \_\_\_\_\_

Sole Source ☐ \_\_\_\_\_ Date: \_\_\_\_\_

Other \_\_\_\_\_

**6 Procurement History:** \_\_\_\_\_  
example: (First year of 4 year contract)

**7 Funding Source:** \_\_\_\_\_ **BU/Line Item:** \_\_\_\_\_ **7280000**

**8 Any out-of-the ordinary or unusual issues or concerns:**  
none  
(Memo may be attached to explain detail.)

**9 Staff Contact who completed this form:** Maya Martinez

Phone # 955-4271

**10 Certificate of Insurance attached.** (if original Contract) ☐

**Submit to City Attorney for review/signature**

Forward to Finance Director for review/signature

Return to originating Department for Committee(s) review or forward to City Manager for review  
and approval (depending on dollar level).

**To be recorded by City Clerk:**

Contract # \_\_\_\_\_

Date of contract Executed (i.e., signed by all parties): \_\_\_\_\_

Note: If further information needs to be included, attach a separate memo.

**Comments:**