

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-144
June 1, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

For drilling and production facilities, submit to
appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe
office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: <u>BC Operating, Inc.</u> Telephone: <u>(432) 687-2008</u> e-mail address: <u>bblack@usaonline.net</u>										
Address: <u>P. O. Box 50820, Midland, TX 79710</u>										
Facility or well name: <u>Angell #1</u> API #: <u>30-025-37902</u> U/L or Qtr/Qtr: <u>A</u> Sec: <u>11</u> T: <u>17-S</u> R: <u>36-E</u>										
County: <u>Lea</u> Latitude: <u>32° 51' 19" N</u> Longitude: <u>103° 19' 06" W</u> NAD: 1927 <input checked="" type="checkbox"/> 1983 <input type="checkbox"/>										
Surface Owner: Federal <input type="checkbox"/> State <input type="checkbox"/> Private <input checked="" type="checkbox"/> Indian <input type="checkbox"/>										
Pit Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness: <u>14</u> mil Clay <input type="checkbox"/> Pit Volume: <u>24,000</u> bbl	Below-grade tank n/a Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not: <u>WTR 50'</u>									
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	<table border="1"><tr><td>Less than 50 feet</td><td>(20 points)</td><td>20 points</td></tr><tr><td>50 feet or more, but less than 100 feet</td><td>(10 points)</td><td></td></tr><tr><td>100 feet or more</td><td>(0 points)</td><td></td></tr></table>	Less than 50 feet	(20 points)	20 points	50 feet or more, but less than 100 feet	(10 points)		100 feet or more	(0 points)	
Less than 50 feet	(20 points)	20 points								
50 feet or more, but less than 100 feet	(10 points)									
100 feet or more	(0 points)									
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources)	<table border="1"><tr><td>Yes</td><td>(20 points)</td><td></td></tr><tr><td><input checked="" type="checkbox"/> No</td><td>(0 points)</td><td>0 points</td></tr></table>	Yes	(20 points)		<input checked="" type="checkbox"/> No	(0 points)	0 points			
Yes	(20 points)									
<input checked="" type="checkbox"/> No	(0 points)	0 points								
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses)	<table border="1"><tr><td>Less than 200 feet</td><td>(20 points)</td><td></td></tr><tr><td>200 feet or more, but less than 1000 feet</td><td>(10 points)</td><td></td></tr><tr><td><input checked="" type="checkbox"/> 1000 feet or more</td><td>(0 points)</td><td>0 points</td></tr></table>	Less than 200 feet	(20 points)		200 feet or more, but less than 1000 feet	(10 points)		<input checked="" type="checkbox"/> 1000 feet or more	(0 points)	0 points
Less than 200 feet	(20 points)									
200 feet or more, but less than 1000 feet	(10 points)									
<input checked="" type="checkbox"/> 1000 feet or more	(0 points)	0 points								
Ranking Score (Total Points) 20 points										

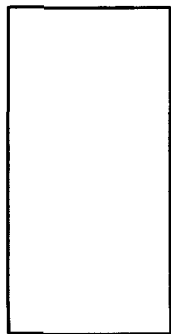
If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☐ offsite ☒ If offsite, name of facility: Unknown (handled by Elke Environmental) (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface _____ ft and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:
Pit contents and liner were previously removed from the site by Elke Environmental. Sub-soils with a Chloride (Cl) level greater than or equal to 250 ppm are scheduled to be excavated and hauled off-site to Sundance for disposal purposes. Excavation will commence as soon as the Landowner (Darr Angell) has reviewed the work plan addressing method of pit closure. Site ranking criteria has been addressed and site closure will be based on the appropriate TPH, Cl and BTEX limitations set by the NMOCD.

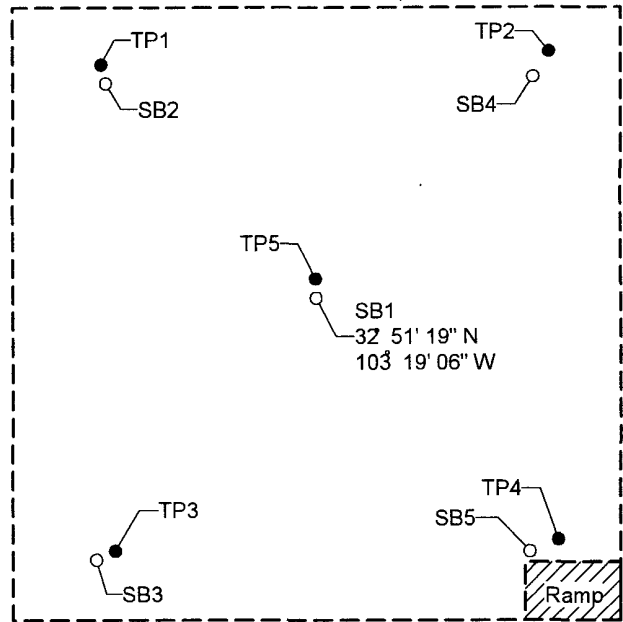
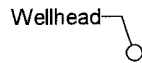
I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines <input checked="" type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .		
Date: <u>9-17-07</u>		
Printed Name/Title: <u>Debi S. Smith, Environmental Consultant</u>	Signature: <u>[Signature]</u>	
Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations		
Approval:		
Printed Name/Title: <u>L. JOHNSON, ENVIRONER</u>	Signature: <u>[Signature]</u>	Date: <u>9.17.07</u>

Legend

- TP3 — Initial Soil Sample Location
(Elke Environmental)
- SB1 — Soil Boring Location
(Sport Environmental)

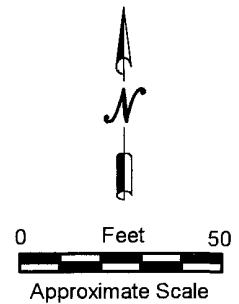


Tank Battery



Estimated location of
former drilling pit

SB6
32 51' 16" N
103 19' 08" W



BC OPERATING, INC.

ANGELL #1 LEASE

T-17-S, R-36-E, Section 11, Unit A

SOIL INVESTIGATION
September 10, 2007

SOIL SAMPLE LOCATIONS



Sample Data Summary

p. 1 of 3

Project Name: **BC Operating, Inc.; Angell #1 Pit Closure**
 Project Location: **Lea County, New Mexico**

						Analytical Results										
						Methods: EPA 8015M (TPH) EPA 8021B (BTEX) SW 846 9253 (Cl)										
Sample ID	Lab ID	Matrix	Latitude/Longitude	Date Sampled	Date Received	Carbon Ranges C6-C12 (mg/kg dry)	Carbon Ranges C12-C28	Carbon Ranges C28-C35	Total Hydrocarbons	Benzene	Toluene	Ethylbenzene	Xylene (p/m)	Xylene (o)	Chloride (Cl) (mg/kg wet)	% Moisture
SB1-001	289371-001	Soil	32° 51' 19" N / 103° 19' 06" W	9/10/2007 11:30	9/10/2007 17:25	ND	ND	ND	ND						93.1	20.1
SB1-002	289371-002	Soil		9/10/2007 11:32	9/10/2007 17:25	ND	ND	ND	ND						78.3	18.5
SB1-003	289371-003	Soil		9/10/2007 11:35	9/10/2007 17:25	ND	ND	ND	ND						105	8.51
SB1-004	289371-004	Soil		9/10/2007 11:37	9/10/2007 17:25	ND	ND	ND	ND						55.7	23.6
SB2-001	289371-005	Soil		9/10/2007 11:40	9/10/2007 17:25	ND	ND	ND	ND						8180	6.38
SB2-002	289371-006	Soil		9/10/2007 11:41	9/10/2007 17:25	ND	ND	ND	ND						436	2.41
SB2-003	289371-007	Soil		9/10/2007 11:44	9/10/2007 17:25	ND	ND	ND	ND						111	3.85
SB2-004	289371-008	Soil		9/10/2007 11:46	9/10/2007 17:25	ND	ND	ND	ND						156	4.66
SB3-001	289371-009	Soil		9/10/2007 11:52	9/10/2007 17:25	ND	ND	ND	ND						91.1	18.3
SB3-002	289371-010	Soil		9/10/2007 11:55	9/10/2007 17:25	ND	ND	ND	ND						78.4	18.6
SB3-003	289371-011	Soil		9/10/2007 11:57	9/10/2007 17:25	ND	ND	ND	ND						628	5.22
SB3-004	289371-012	Soil		9/10/2007 12:01	9/10/2007 17:25	ND	ND	ND	ND						110	22.8

[illegible]

[illegible]



Certificate of Analysis Summary 289371

O'Briant & Assoc., Inc. dba Sport Environmental Svcs., Midland, TX

Project Name: BC Operating, Inc.; Angell # 1 Pit Closure Initial Sampling



Project Id:

Contact: Debi Smith, M.E., R E P A

Project Location:

Date Received in Lab: Mon Sep-10-07 05:25 pm

Report Date: 14-SEP-07


Project Manager: Brent Barron, II

PARTIAL

Analysis Requested	Lab Id:	289371-001	289371-002	289371-003	289371-004	289371-005	289371-006
	Field Id:	SBI-001 (11' BGS)	SBI-002 (16' BGS)	SBI-003 (21' BGS)	SBI-004 (26' BGS)	SB2-001 (11' BGS)	SB2-002 (16' BGS)
	Depth:	5- ft	10- ft	15- ft	20- ft	5- ft	10- ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Sep-10-07 11:30	Sep-10-07 11:32	Sep-10-07 11:35	Sep-10-07 11:37	Sep-10-07 11:40	Sep-10-07 11:41
Percent Moisture	Extracted:						
	Analyzed:	Sep-11-07 12:00	Sep-11-07 12:00	Sep-11-07 12:00	Sep-11-07 12:03	Sep-11-07 12:03	Sep-11-07 12:03
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		20.1	18.5	8.51	23.6 1.00	6.38 1.00	2.41 1.00
Total Chloride by EPA 325.3	Extracted:						
	Analyzed:	Sep-12-07 15:25	Sep-12-07 15:25	Sep-12-07 15:25	Sep-12-07 15:25	Sep-12-07 15:25	Sep-12-07 15:25
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		93.1 6.26	78.3 6.14	105 5.47	55.7 6.55	8180 5.34	436 5.12

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 289371

O'Briant & Assoc., Inc. dba Sport Environmental Svcs., Midland, TX

Project Name: BC Operating, Inc.; Angell # 1 Pit Closure Initial Sampling



Project Id:

Contact: Debi Smith, M.E., R.E.P.A

Project Location:

Date Received in Lab: Mon Sep-10-07 05:25 pm

Report Date: 14-SEP-07

Project Manager: Brent Barron, II

PARTIAL

Analysis Requested	Lab Id:	289371-007	289371-008	289371-009	289371-010	289371-011	289371-012
	Field Id:	SB2-003 (21' BGS)	SB2-004 (26' BGS)	SB3-001 (11' BGS)	SB3-002 (16' BGS)	SB3-003 (21' BGS)	SB3-004 (26' BGS)
	Depth:	15- ft	20- ft	5- ft	10- ft	15- ft	20- ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Sep-10-07 11:44	Sep-10-07 11:46	Sep-10-07 11:52	Sep-10-07 11:55	Sep-10-07 11:57	Sep-10-07 12:01
Percent Moisture	Extracted:						
	Analyzed:	Sep-11-07 12:03	Sep-11-07 12:03	Sep-11-07 12:03	Sep-11-07 12:03	Sep-11-07 12:03	Sep-11-07 12:03
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		3.85 1.00	4.66 1.00	18.3 1.00	18.6 1.00	5.22 1.00	22.8 1.00
Total Chloride by EPA 325.3	Extracted:						
	Analyzed:	Sep-12-07 15:25	Sep-12-07 15:25	Sep-12-07 15:25	Sep-12-07 15:25	Sep-12-07 15:25	Sep-12-07 15:25
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		111 5.20	156 5.24	91.1 6.12	78.4 6.14	628 5.28	110 6.47

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Project Id:

Contact: Debi Smith, M.E., R.E.P.A

Project Location:

Project Name: BC Operating, Inc.; Angell # 1 Pit Closure Initial Sampling

Date Received in Lab: Mon Sep-10-07 05:25 pm

Report Date: 14-SEP-07


Project Manager: Brent Barron, II

PARTIAL

Analysis Requested	Lab Id:	289371-013	289371-014	289371-015	289371-016	289371-017	289371-018
	Field Id:	SB4-001 (11' BGS)	SBI-002 (16' BGS)	SB4-003 (21' BGS)	SB4-004 (26' BGS)	SB5-001 (11' BGS)	SB5-002 (16' BGS)
	Depth:	5- ft	10- ft	15- ft	20- ft	5- ft	10- ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Sep-10-07 12:05	Sep-10-07 12:10	Sep-10-07 12:12	Sep-10-07 12:20	Sep-10-07 12:36	Sep-10-07 12:38
Percent Moisture	Extracted:						
	Analyzed:	Sep-11-07 12:03	Sep-11-07 12:03	Sep-11-07 12:03	Sep-11-07 12:03	Sep-11-07 12:03	Sep-11-07 12:03
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		22.4 1.00	26.8 1.00	10.4 1.00	24.7 1.00	5.70 1.00	1.82 1.00
Total Chloride by EPA 325.3	Extracted:						
	Analyzed:	Sep-12-07 15:25	Sep-12-07 15:25	Sep-12-07 15:25	Sep-12-07 15:25	Sep-12-07 15:25	Sep-12-07 16:00
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		466 6.44	247 6.83	166 5.58	56.8 6.64	361 5.30	75.8 5.09

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O'Briant & Assoc., Inc. dba Sport Environmental Svcs., Midland, TX
Project Name: BC Operating, Inc.; Angell # 1 Pit Closure Initial Sampling



Project Id:
Contact: Debi Smith, M.E., R E P.A.
Project Location:

PARTIAL

Date Received in Lab: Mon Sep-10-07 05:25 pm

Report Date: 14-SEP-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	289371-019	289371-020	289371-021	289371-022	289371-023	289371-024
	Field Id:	SB5-003 (21' BGS)	SB5-004 (26' BGS)	SB5-005 (31' BGS)	SB5-006 (36' BGS)	SB5-007 (41' BGS)	SB6-001
	Depth:	15- ft	20- ft	25- ft	30- ft	35- ft	5- ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Sep-10-07 12:40	Sep-10-07 12:45	Sep-10-07 12:47	Sep-10-07 12:50	Sep-10-07 12:52	Sep-10-07 13:12
Percent Moisture	Extracted:						
	Analyzed:	Sep-11-07 12:05	Sep-11-07 12:05	Sep-11-07 12:05	Sep-11-07 12:05	Sep-11-07 12:05	Sep-11-07 12:20
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		23.6 1.00	5.95 1.00	7.31 1.00	5.62 1.00	28.0 1.00	2.30 1.00
Total Chloride by EPA 325.3	Extracted:						
	Analyzed:	Sep-12-07 16:00	Sep-12-07 16:00	Sep-12-07 16:00	Sep-12-07 16:00	Sep-12-07 16:00	Sep-12-07 16:00
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		69.6 6.54	56.6 5.32	57.4 5.39	67.6 5.30	59.0 6.95	32.7 5.12

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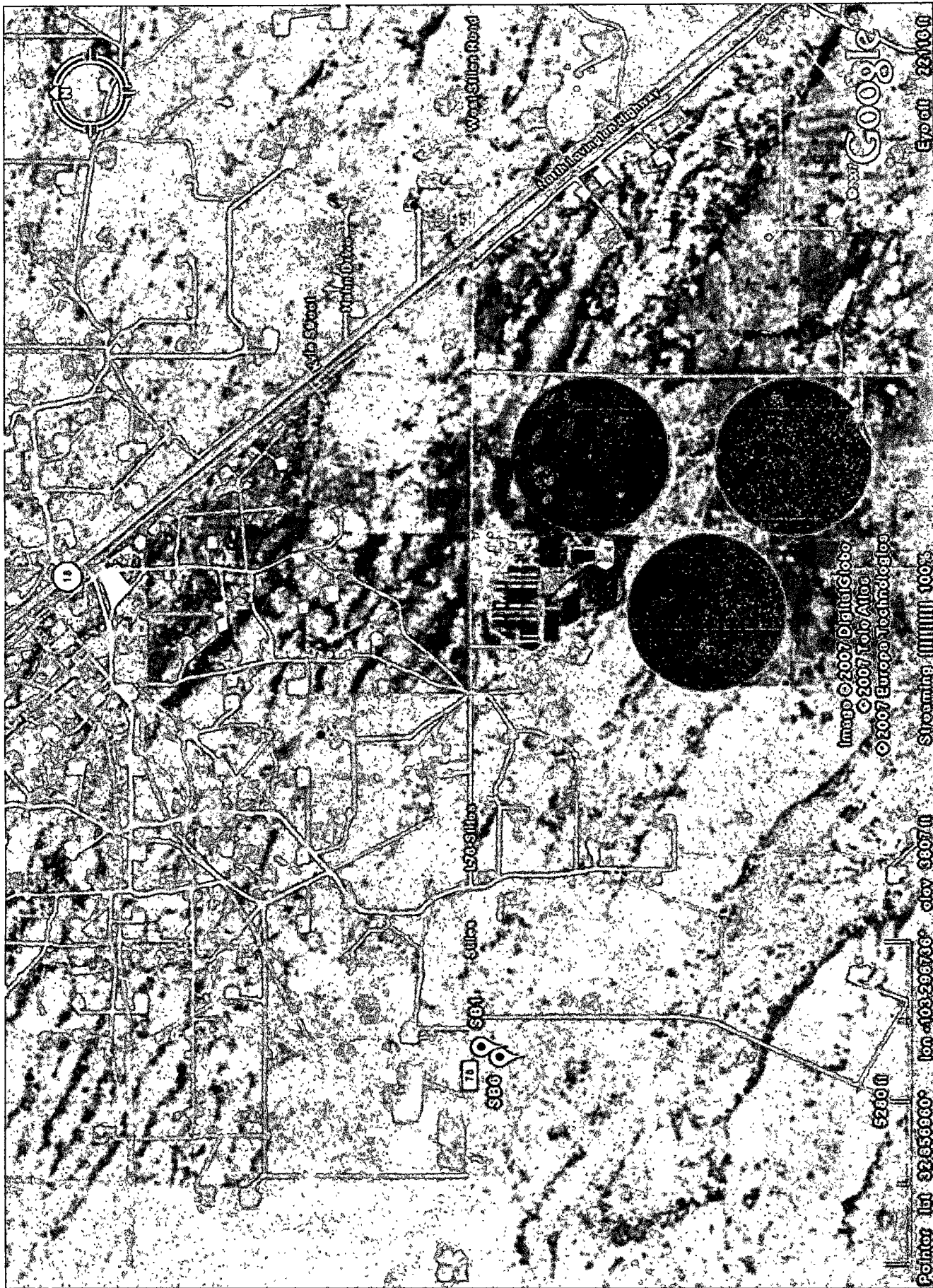
Date Received in Lab: Mon Sep-10-07 05:25 pm
Report Date: 14-SEP-07
Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	289371-025	289371-026	289371-027	289371-028	289371-029	
	Field Id:	SB6-002	SB6-003	SB6-004	SB6-005	SB6-006	
	Depth:	10- ft	15- ft	20- ft	25- ft	30- ft	
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Sep-10-07 13:16	Sep-10-07 13:19	Sep-10-07 13:21	Sep-10-07 13:25	Sep-10-07 13:28	
Percent Moisture	Extracted:						
	Analyzed:	Sep-11-07 12:20	Sep-11-07 12:20	Sep-11-07 12:20	Sep-11-07 12:20	Sep-11-07 12:20	
	Units/RL:	% RL	% RL	% RL	% RL	% RL	
Percent Moisture		4.12 1.00	1.86 1.00	ND 1.00	2.98 1.00	2.99 1.00	
Total Chloride by EPA 325.3	Extracted:						
	Analyzed:	Sep-12-07 16:00	Sep-12-07 16:00	Sep-12-07 16:00	Sep-12-07 16:00	Sep-12-07 16:00	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		443 5.21	21.7 5.09	21.5 5.04	43.8 5.15	43.8 5.15	

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Odessa Laboratory Director







Google

Eye alt 7303 ft

Image © 2007 DigitalGlobe
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Streaming 100%

13

SB1

SB6

100 ft

lon -108.318424°

lat 32.855495°

elev 3626 ft

Point for

