

## ERRATA SHEET

I declare under penalty of perjury that I have read the foregoing 1 - 83 pages of my testimony, taken on 13 JAN 2016 (date) at San Diego (city), CA (state), and that the same is a true record of the testimony given by me at the time and place herein above set forth, with the following exceptions:

<u>Page</u>	<u>Line</u>	<u>Should read:</u>	<u>Reason for Change:**</u> (See below before completion)
<u>18</u>	<u>13</u>	<u>NPDES</u>	
<u>18</u>	<u>15</u>	<u>2010-0014-DWQ NPDES No. CAS000002."</u>	
<u>26</u>	<u>20</u>	<u>Basin Plan</u>	
<u>28</u>	<u>3</u>	<u>effluent standards and</u>	
<u>34</u>	<u>17</u>	<u>effort by a municipality</u>	
<u>43</u>	<u>25</u>	<u>the City of San Diego</u>	
<u>45</u>	<u>22</u>	<u>Leon</u>	
<u>51</u>	<u>6</u>	<u>Anderson the site</u>	
<u>53</u>	<u>9</u>	<u>EPA's</u>	
<u>59</u>	<u>7</u>	<u>the notation that in regards to</u>	
<u>59</u>	<u>24</u>	<u>Errantly identifies this as a question.</u>	
<u>69</u>	<u>22</u>	<u>by Tad</u>	
<u>73</u>	<u>3</u>	<u>says "Cover and berm loose stockpiled</u>	
<u>73</u>	<u>4</u>	<u>being used (i.e., soil, spoils</u>	
<u>73</u>	<u>5</u>	<u>aggregate, fly-ash, stucco, hydrated lime, etc.).</u>	
<u>83</u>	<u>23</u>	<u>Straw wattles hold up</u>	

Date: 21 JAN 2016



Signature of Witness

Frank T. Melbourn

Name Typed or Printed

\*\* THE "REASON FOR CHANGE" COLUMN SHOULD ONLY BE COMPLETED FOR FEDERAL DISTRICT OR BANKRUPTCY COURT MATTERS (FRCP RULE 30(e)). THIS COLUMN SHOULD NOT BE COMPLETED FOR STATE COURT ACTIONS.

Job No. \_\_\_\_\_

Rev. 3/15/14

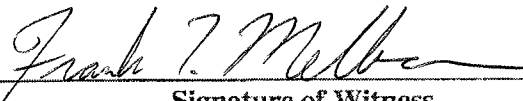


## ERRATA SHEET

I declare under penalty of perjury that I have read the foregoing 84-113 pages of my testimony, taken on 13 JAN 2016 (date) at San Diego (city), CA (state), and that the same is a true record of the testimony given by me at the time and place herein above set forth, with the following exceptions:

<u>Page</u>	<u>Line</u>	<u>Should read:</u>	<u>Reason for Change:**</u> (See below before completion)
<u>89</u>	<u>5</u>	<u>lot of erosion that was lost. Less so where they</u>	
<u>94</u>	<u>17</u>	<u>one, as having been in an inactive area.</u>	
<u>101</u>	<u>8</u>	<u>and there is a title</u>	
<u>101</u>	<u>20</u>	<u>It states, "Add</u>	
<u>101</u>	<u>21</u>	<u>slopes at</u>	
<u>101</u>	<u>22</u>	<u>edges of pads, and area near entrance on Akins."</u>	
<u>104</u>	<u>15</u>	<u>BMPs, (e.g. visqueen or erosion</u>	
<u>104</u>	<u>16</u>	<u>blankets) if hydroseed growth</u>	
<u>104</u>	<u>18</u>	<u>Akins Avenue.</u>	
<u>106</u>	<u>20</u>	<u>erosion controls to stabilize</u>	
<u>106</u>	<u>21</u>	<u>than hydroseed, since there is</u>	
<u>106</u>	<u>25</u>	<u>"Stabilize area if inactive or rain in forecast."</u>	
<u>108</u>	<u>14</u>	<u>MR. BOYERS not Mr. Rosenbaum.</u>	
<u>109</u>	<u>12</u>	<u>management practice for each of those</u>	
<u>110</u>	<u>13</u>	<u>northern part of site lack protection."</u>	
<u>113</u>	<u>18</u>	<u>"Repair minor rills and</u>	

Date: 21 JAN 2016

  
Signature of Witness

Frank T. Melbourn  
Name Typed or Printed

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Rev. 3/15/14

## ERRATA SHEET

I declare under penalty of perjury that I have read the foregoing 113-152 pages of my testimony, taken on 13 JAN 2016 (date) at San Diego (city), CA (state), and that the same is a true record of the testimony given by me at the time and place herein above set forth, with the following exceptions:

<u>Page</u>	<u>Line</u>	<u>Should read:</u>	<u>Reason for Change:**</u> (See below before completion)
<u>113</u>	<u>25</u>	<u>been areas that should</u>	<u></u>
<u>120</u>	<u>25</u>	<u>"Clean sediment out of roadways</u>	<u></u>
<u>124</u>	<u>15</u>	<u>says, "Are concrete washouts properly</u>	<u></u>
<u>124</u>	<u>18</u>	<u>on ground outside of washouts.</u>	<u></u>
<u>126</u>	<u>1</u>	<u>cementitious materials.</u>	<u></u>
<u>127</u>	<u>13</u>	<u>observed at multiple locations."</u>	<u></u>
<u>128</u>	<u>22</u>	<u>of cementitious materials.</u>	<u></u>
<u>129</u>	<u>11</u>	<u>cementitious materials</u>	<u></u>
<u>133</u>	<u>16</u>	<u>Region's</u>	<u></u>
<u>133</u>	<u>18</u>	<u>R9-2013-0152</u>	<u></u>
<u>133</u>	<u>20</u>	<u>Orders Nos. 2009-0009-DWQ and R9-2007-0001, and Basin</u>	<u></u>
<u>138</u>	<u>10</u>	<u>to the Construction Storm Water Permit."</u>	<u></u>
<u>140</u>	<u>16</u>	<u>And it says, "Wood/scrap</u>	<u></u>
<u>144</u>	<u>21</u>	<u>Effective: No."</u>	<u></u>
<u>150</u>	<u>21</u>	<u>Protection: Sediment Trap, De-Silting Basin</u>	<u></u>
<u>152</u>	<u>11</u>	<u>If there's a non-storm water discharge</u>	<u></u>

Date: 21 JAN 2016

Frank T. Melbourn  
Signature of Witness

Frank T. Melbourn  
Name Typed or Printed

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Job No. \_\_\_\_\_

Rev. 3/15/14

# ERRATA SHEET

**I declare under penalty of perjury that I have read the foregoing 153-188 pages of my testimony, taken on 13 JAN 2016 (date) at San Diego (city), CA (state), and that the same is a true record of the testimony given by me at the time and place herein above set forth, with the following exceptions:**

[illegible]

**Date:** 21 JAN 2016

Frank T. Melton  
Signature of Witness

Frank T. Melbourn  
Name Typed or Printed

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Job No. \_\_\_\_\_

Rev. 3/15/14

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN DIEGO REGION

IN THE MATTER OF:

ADMINISTRATIVE CIVIL LIABILITY COMPLAINT  
NO. R9-2015-0110  
AGAINST SAN ALTOS- LEMON GROVE, LLC

---

DEPOSITION OF FRANK MELBOURN  
TAKEN AT SAN DIEGO, CALIFORNIA  
JANUARY 13, 2016

Job Number 600096

REPORTED BY DULCEMARIA DUARTE, CSR  
CERTIFICATE NO. 13968



I N D E X

DEPOSITION OF FRANK MELBOURN

JANUARY 13, 2016

EXAMINATION

PAGE

BY MS. BERESFORD

5

E X H I B I T S

EXHIBITS

MARKED

1 Notice of Deposition for Frank Melbourn

7

2 Notice of Hearing and Issuance of  
Complaint No. R9-2015-0110 for  
Administrative Civil Liability against  
San Altos Lemon Grove, LLC for violations  
of Order No. 2009-0009-DWQ

17

3 Exhibits to the Technical Analysis

17

4 Appendix 5 Glossary

71

5 Correct Work Notice issued by the  
City of Lemon Grove on December 9, 2014

165

Witness signature page

188

Reporter's certificate page

189

1 Pursuant to Notice to Take Deposition, on the 13th  
2 day of January, 2016, commencing at the hour of 9:02 a.m.,  
3 at 225 Broadway, Suite 1900, in the City of San Diego,  
4 County of San Diego, State of California, before me,  
5 Dulcemaria Duarte, Certified Shorthand Reporter in and for  
6 the State of California, personally appeared:

7  
8 FRANK MELBOURN,  
9

10 Called by the Defendants, who, being by me first duly  
11 sworn, was thereupon examined as a witness in said cause.  
12

13 A P P E A R A N C E S

14 FOR ADMINISTRATIVE CIVIL LIABILITY COMPLAINT NO.  
15 R9-2015-0110:

16 CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY  
17 STATE WATER RESOURCES CONTROL BOARD

By: LAURA DRABANDT, ESQ.

18 and

DAVID BOYERS, ESQ.

1001 I Street

P.O. Box 100

19 Sacramento, California 95812

(916) 341-5180

20 ldrabandt@waterboards.ca.gov  
21  
22  
23  
24  
25

///

1 FOR SAN ALTOS-LEMON GROVE, LLC:

2 OPPER & VARCO, LLP

3 By: LINDA C. BERESFORD, ESQ.

4 and

5 WAYNE ROSENBAUM, ESQ.

6 225 Broadway

7 Suite 1900

8 San Diego, California 92101

9 (619) 231-5858

10 lindab@envirolwayer.com

11 ALSO PRESENT:

12 CHIARA CLEMENTE, MPH, Senior Environmental Scientist

13 JOSHUA ROSENBAUM, Law Clerk

1 SAN DIEGO, CALIFORNIA; JANUARY 13, 2016; 9:02 A.M.

2  
3 FRANK MELBOURN,

4 having been sworn, testified as follows:

5  
6 EXAMINATION

7 BY MS. BERESFORD:

8 Q Good morning, Mr. Melbourn.

9 A Good morning.

10 Q I am Linda Beresford, counsel for one of the  
11 attorneys for San Altos in this administrative matter.

12 Could you please state your name and spell it for  
13 the record.

14 A Sure. My first name is Frank, F-r-a-n-k; last name  
15 is Melbourn, M-e-l-b-o-u-r-n.

16 Q Thanks. Have you had your deposition taken before?

17 A No.

18 Q Well, I know you've heard this before from some of  
19 the prior depositions, but we'll go through some of the  
20 ground rules.

21 You're here today, appearing under oath, and we  
22 have a court reporter taking everything down. So, if  
23 possible, to have an accurate transcript, please try to  
24 respond to the questions verbally with "yes" or "no," with  
25 complete sentence, instead of nodding, or shrugging, or



1 saying things like "huh-uh."

2 Is that okay?

3 A Yes.

4 Q Thank you. Again, in order to have an accurate  
5 transcript, it's important that you understand my questions.  
6 So if you don't understand a question, please let me know,  
7 and I will do my best to rephrase it so you understand. If  
8 you answer a question, I will presume that you understand.

9 It is that fair?

10 A Yes.

11 Q Thank you. Also, again, in the interest of the  
12 transcript, it's easiest for the court reporter if only one  
13 of us speak at a time. So I ask that you wait for me to  
14 finish my question before you answer, and I, in turn, will  
15 do my best to wait until you finish your answer, until I ask  
16 my next question.

17 Is that agreeable?

18 A Yes.

19 Q Great. And then finally -- actually, not  
20 finally -- but please feel free to take a break at any time.  
21 Just let me know, and we'll take a break. My only request  
22 is that if you ask to take a break, if I have a question  
23 pending, please answer the question before we break.

24 Is that fair?

25 A Yes.

1 Q Okay. And I apologize, but I do have to ask: Have  
2 you taken any medication today or is there any reason why  
3 you can't give your best testimony today?

4 A No.

5 Q Thank you.

6 Okay. I would like to have your first exhibit be  
7 your Notice of Deposition.

8 Have you seen that document before?

9 A Yes.

10 MS. BERESFORD: Can we please mark this as Exhibit  
11 1?

12 (Exhibit No. 1 marked.)

13 BY MS. BERESFORD:

14 Q Can you please state for the record what it is?

15 A This is a subpoena issued to me on December 29,  
16 2015, noticing the deposition -- my deposition on January  
17 13, 2016, at 9:00 a.m. at this office.

18 Q And did you do anything to prepare for your  
19 deposition today?

20 A Yes.

21 Q What did you do?

22 A I put together the documents for production, and I  
23 consulted with legal counsel.

24 Q Did you do anything else?

25 A No.

1 Q Did you review any specific documents?

2 A No.

3 Q And I think you indicated that you brought  
4 documents here today responsive to the subpoena; is that  
5 correct?

6 A Yes.

7 Q And I will state for the record, that counsel for  
8 the water board also provided me with a privileged log  
9 today.

10 Were there any documents that were not identified  
11 on the privilege log that are related to the San Altos case  
12 that you did not bring today?

13 A No.

14 Q Okay. Let's start with a little bit of your  
15 background.

16 A Yes.

17 Q Can you please tell me where you went to high  
18 school?

19 A I went to James Madison High School here in San  
20 Diego.

21 Q And did you go to college after that?

22 A Yes.

23 Q Where did you go?

24 A San Diego State University.

25 Q And when did you graduate?

1 A 1990.

2 Q And what was your degree?

3 A Bachelor of science in civil engineering.

4 Q Do you have a professional engineering  
5 registration?

6 A Yes.

7 Q Do you have any advanced degrees?

8 A Yes.

9 Q And what is that?

10 A I have a master of science in civil engineering  
11 from San Diego State University. I graduated in 1992, and I  
12 also have a juris doctorate from Thomas Jefferson School of  
13 Law.

14 Q And when did you get that?

15 A 1997.

16 Q Let's talk about your work history.

17 After you graduated from SDSU in 1990, did you go  
18 to work right away?

19 A No. I continued with work on a graduate degree.

20 Q Okay. And you got that degree in '92; is that  
21 correct?

22 A Yes.

23 Q And then did you get a job after that?

24 A Yes.

25 Q And where was your first job?

1 A At the California Regional Water Quality Control  
2 Board, San Diego Region.

3 Q And what was your first position there?

4 A As a water resource control engineer.

5 Q And what does that mean?

6 A That entails engineering work related to water  
7 quality, environmental regulation.

8 Q Did that involve storm water?

9 A Yes.

10 Q Can you describe for me a little bit more how it  
11 involved storm water?

12 A Yes. So when I joined the regional board in  
13 February of 1993, within about two weeks of my joining the  
14 office, they formed up their first ever storm water unit.  
15 And so I was a member of the storm water unit for  
16 approximately nine years.

17 We worked on industrial storm water compliance,  
18 construction storm water compliance, and also municipal  
19 storm water permitting.

20 Q So you were a member of that unit for nine years,  
21 you said?

22 A Yes.

23 Q And what did you do after you were no longer a  
24 member of that unit?

25 A In about 1999, 2000 -- so it would have been about

1 six years. In about 1999 they formed up the first water  
2 enforcement unit.

3 Q Are you still a member of that enforcement unit?

4 A Yes.

5 Q So you've been a member of the enforcement unit for  
6 approximately 15, 16 years?

7 A Yes.

8 Q What is your title now?

9 A It continues to be a water resource control  
10 engineer.

11 Q Okay. And so you've you worked continuously for  
12 the water board from 1992 or '93 until the present?

13 A Yes.

14 Q You've never had another outside job with another  
15 consultant?

16 A No.

17 Q I know you were a member of the storm water unit  
18 and the enforcement unit, but did you ever have any training  
19 as a storm water investigator?

20 A Yes.

21 Q Can you please describe that for me?

22 A Through the years there have been many training --  
23 many trainings that have been offered through CalEPA,  
24 through the State Water Resources Control Board on  
25 inspecting industrial and construction sites. And then I've

1 had various enforcement-related inspection training through  
2 Western States Project.

3 I've attended numerous CASQA -- I'm not sure on the  
4 acronym -- but the professional organization for California  
5 storm water professionals. I've attended workshops and also  
6 seminars that they've held.

7 Q When was the last time you went to one of those  
8 trainings?

9 A Probably three to four years ago.

10 Q Okay. Are you a qualified storm water professional  
11 or a QSP?

12 A No.

13 Q Are you a qualified equipment developer or also  
14 known as a QSE?

15 A No.

16 Q Okay. Are you a trainer of record?

17 A No.

18 Q Okay. So we are here today primarily to talk about  
19 the Valencia Hills construction project located at 1350 San  
20 Altos Place in Lemon Grove.

21 Are you familiar with this project?

22 A Yes.

23 Q If I refer to it as "the site," will you understand  
24 what I'm talking about?

25 A Yes.

1 Q Okay. When did you first hear about the site?

2 A I would have to say August of 2014.

3 Q From whom did you hear about it?

4 A Wayne Chiu.

5 Q And what did he tell you about it?

6 A Wayne had mentioned that there was a non-storm  
7 water discharge from the site, and that he was notified of  
8 it.

9 Q Did he describe the type of discharge?

10 A He explained to me that there was a report that the  
11 developer or contractor at the site accidentally hit a water  
12 line, and that water and sediment then left the site and  
13 entered into the storm water conveyance system and into  
14 Encanto Channel.

15 Q Do you remember the next time you heard about the  
16 site?

17 A Probably around January or February of 2015.

18 Q And what did you hear about it then?

19 A I believe it was during one of our COG meetings, or  
20 compliance oversight group meetings, where we internally  
21 discuss potential enforcement matters and prioritize and  
22 assign enforcement cases. So I believe that's when I would  
23 have heard -- or that I did hear more about the site.

24 Q And do you remember what -- well, who was talking  
25 about the site at that time?



1 A I don't recall specifically who.

2 Q Do you recall the nature of the discussion during  
3 that meeting?

4 A Yes.

5 Q With respect to the site?

6 A Yes.

7 Q Can you describe it?

8 A That there were violations -- alleged violations of  
9 the Construction Storm Water Permit occurring on the site,  
10 and that there was a discussion of how to approach the site  
11 next.

12 Q Do you remember what the resolution of that issue  
13 was -- what the decision was on how to approach the site  
14 next?

15 A It's a little fuzzy, but I believe the case was  
16 assigned to Wayne Chiu to develop an administrative civil  
17 liability complaint, and that I was to assist him.

18 Q Have you ever visited the site?

19 A Yes.

20 Q And when was that?

21 A I believe it was in March of 2015.

22 Q How many times have you been there?

23 A I don't recall a specific number, but I will  
24 estimate six times.

25 Q So when you visited the site at that time, do you

1 recall, were you already intending on developing an  
2 administrative civil liability complaint?

3 A When --

4 MS. DRABANDT: I'm going to object.  
5 Attorney-client privilege.

6 BY MS. BERESFORD:

7 Q When you visited the site, had you discussed with  
8 Mr. Chiu your intent to -- that the purpose of visiting the  
9 site was for the purpose of developing an administrative  
10 civil liability complaint?

11 A No.

12 Q Okay. Have you ever discussed the site with Malik  
13 Tamimi?

14 A Yes.

15 Q Can you describe those discussions for me?

16 A The discussions were focused on the procedural  
17 aspects of the issuance of an administrative civil liability  
18 complaint, specifically when would be the hearing and the  
19 timing.

20 Q How many times did you speak with him?

21 A I would estimate five times.

22 Q Do you recall when your first conversation was?

23 A No.

24 Q Did you ever discuss any specific alleged  
25 violations of the site with Mr. Tamimi?

1 A No.

2 Q Did you ever speak with Gary Harper?

3 A No.

4 Q Did you ever speak with Leon Firsht?

5 A No.

6 Q Did you ever talk to Tad Nakatani?

7 A No.

8 Q Did you ever talk to John Quenzer?

9 A No.

10 Q Did you ever speak to Brian Nemerov?

11 A No.

12 Q Have you ever spoken to John Draminski?

13 A No.

14 Q Have you ever spoken to Tamara O'Neil?

15 A No.

16 Q Okay. Do you recognize this document?

17 A I recognize it as an ACL complaint package.

18 However, I was not involved with this case.

19 Q Oh, then I'm giving you the wrong document. My  
20 apologies.

21 Have you ever recognized this document?

22 A Yes.

23 Q And what is that?

24 A This is the notice of hearing and issuance of  
25 Complaint No. R9-2015-0110 for administrative civil

1 liability against San Altos Lemon Grove, LLC for violations  
2 of Order No. 2009-0009-DWQ, as amended.

3 MS. BERESFORD: Thank you. And let's mark that as  
4 Exhibit 2, please.

5 (Exhibit 2 was marked.)

6 BY MS. BERESFORD:

7 Q Have you ever seen those documents?

8 A Yes.

9 Q And what are they?

10 A These are the exhibits to the technical analysis  
11 that accompanied the complaint for administrative liability  
12 against San Altos.

13 MS. BERESFORD: Okay. And we'll mark those as  
14 Exhibit 3.

15 (Exhibit 3 was marked.)

16 MS. BERESFORD: So for purposes of clarification,  
17 the ACL and the technical report against San Altos is  
18 Exhibit 2 to the deposition, and then the exhibits to that  
19 are Exhibit 3 to the deposition.

20 BY MS. BERESFORD:

21 Q Did you prepare the ACL?

22 A Yes.

23 Q Did you have any assistance?

24 A Yes.

25 Q From whom?

1 A From Office of Enforcement counsel, also Wayne  
2 Chiu.

3 Q What did Mr. Chiu do?

4 A Mr. Chiu drafted an initial version of the  
5 administrative civil liability complaint that I then  
6 augmented.

7 Q Who collected and prepared the exhibits?

8 A I did.

9 Q Okay. Do you recognize this document?

10 A Yes.

11 Q Can you please state what it is?

12 A This is the Construction Storm Water Permit. It is  
13 a general NPDES permit for construction activities land  
14 disturbance activities. It's titled "Order No.  
15 2010-0014-DWQNPDES No. PAS000002."

16 Q So many of my questions will relate to this permit.  
17 So if I refer to a "permit" or the "construction permit," do  
18 you understand that I will be referring to that document?

19 A Yes.

20 Q Okay. Did you rely on that permit when preparing  
21 the ACL?

22 A Yes.

23 Q Can you please describe to me how?

24 A I referred to the permit for various requirements  
25 and standards for determining compliance at the site.

1 Q Did you have assistance in interpreting that  
2 document as it applies to the ACL?

3 MS. DRABANDT: Objection. Attorney-client  
4 privilege.

5 MS. BERESFORD: I'll take that as a yes.  
6 BY MS. BERESFORD:

7 Q Did you have assistance in interpreting that  
8 document from anyone other than counsel for the water board?

9 A Yes.

10 Q And from whom was that?

11 A Wayne Chiu.

12 Q And can you describe to me those conversations?

13 A We had conversations related to active versus  
14 inactive sections of the permit when it applies to the  
15 definition -- when it applies to erosion control activities.

16 And we also discussed various interpretations of  
17 different sections of the permit regarding this type of  
18 construction site of Phase 2 Construction Site or Risk Level  
19 2 Construction Site.

20 Q How -- what's your understanding of what an active  
21 part of a construction site is under the permit?

22 A I refer to the definition in the permit.

23 Q And do you know what that definition is?

24 A Yes.

25 Q And what is it?

1 A I would refer to the permit. I don't have it  
2 memorized.

3 Q Do you know where we can locate it easily?

4 A Yes.

5 Q Can you do that?

6 A Yes.

7 Q Can you identify for me where in the permit the  
8 definition of "inactive" is?

9 A I'm looking at Attachment D to the permit on page  
10 5, and there is a Footnote No. 1 that describes inactive  
11 areas.

12 Q And can you read what that says?

13 A Yes. "Inactive areas of construction are areas of  
14 construction activity that have been disturbed and are not  
15 scheduled to be re-disturbed for at least 14 days."

16 Q Did Mr. Chiu have a different definition of what  
17 inactive was?

18 A No.

19 Q Okay. Are there any other sections of the permit  
20 that you specifically recall discussing with Mr. Chiu in  
21 developing this ACL?

22 A The other discussions were focused on the various  
23 requirements under this section -- under this Attachment D  
24 for Risk Level 2 Construction Sites, but it was just  
25 general. I can't recall anything specific.

1 Q Okay. Are several of the exhibits to the ACL  
2 inspection reports prepared by the employees of the City of  
3 Lemon Grove?

4 A Yes.

5 Q When the City of Lemon Grove was conducting  
6 inspections of the site, do you know if their intention was  
7 to conduct an inspection for violations of the construction  
8 permit?

9 MS. DRABANDT: Objection. Beyond the witness's  
10 knowledge. Speculative.

11 BY MS. BERESFORD:

12 Q Okay. You can still answer.

13 A I don't know.

14 Q So do you know what the City's goals were when  
15 inspecting the site?

16 MS. DRABANDT: Objection. Speculative.

17 THE WITNESS: No.

18 BY MS. BERESFORD:

19 Q Are several of the exhibits to the ACL inspection  
20 reports prepared by employees of D-Max Engineering?

21 A Yes.

22 Q Do you know what D-Max Engineering's role was with  
23 respect to the site?

24 A No.

25 Q When D-Max Engineering was inspecting the site, do



1 you know if their intention was to conduct an inspection of  
2 the site for violations of the construction permit?

3 MS. DRABANDT: Objection. Speculative.

4 THE WITNESS: No.

5 BY MS. BERESFORD:

6 Q Do you know what their goals were when inspecting  
7 the site?

8 MS. DRABANDT: Objection. Speculative.

9 THE WITNESS: No.

10 BY MS. BERESFORD:

11 Q Okay. Are you aware that Mr. Harper of the City of  
12 Lemon Grove and Mr. Nakatani of D-Max testified that they  
13 were not inspecting the sites for violations of the  
14 construction permit?

15 A Yes.

16 Q When did you become aware of that?

17 A During the depositions prior to the first of the  
18 year.

19 Q Did you have -- did you know that they stated that  
20 they were not inspecting the site for violations of the  
21 construction permit before their depositions?

22 A No.

23 Q Okay. Are you familiar with the City of Lemon  
24 Grove's "Jurisdictional Urban Management Runoff Plan"?

25 A No.

1 Q Do you know if that plan defines what they -- how  
2 they define an inactive part of a construction site?

3 MS. DRABANDT: Objection. Speculative.

4 THE WITNESS: No.

5 BY MS. BERESFORD:

6 Q Okay. I will take that back from you (indicating).  
7 Are you familiar with this document?

8 A Yes.

9 Q Can you please state what it is?

10 A It is the "Water Quality Enforcement Policy" issued  
11 by the State Water Resources Control Board, and it says it  
12 is effective as of May 20, 2010.

13 Q Did you rely on that document when preparing the  
14 ACL for the site?

15 A Yes.

16 Q Can you please describe for me how?

17 A There is guidance in how to proceed with  
18 enforcement cases. There is also -- most specifically the  
19 section that I relied upon is the penalty methodology  
20 section in developing a penalty amount for the ACL  
21 complaint.

22 Q Did you have assistance in interpreting the penalty  
23 methodology section when drafting the ACL?

24 MS. DRABANDT: Objection. Attorney-client  
25 privilege.

1 THE WITNESS: No.

2 BY MS. BERESFORD:

3 Q So you prepared the penalty methodology section on  
4 your own?

5 A Yes.

6 Q Okay. I will take that back (indicating).

7 Are you familiar with that document?

8 A Yes.

9 Q Can you please state what it is?

10 A It is the "California Storm Water BMP Handbook  
11 Portal." It says, "Handbook Portal," but it's a handbook  
12 for construction sites, and it is dated August 2011, and it  
13 is copyrighted by the California Storm Water Quality  
14 Association also known as CASQA.

15 Q Do you think that document states the standard of  
16 care that construction sites should follow for preparing and  
17 implementing best management practices?

18 A Could you rephrase the question?

19 Q Sure. When construction sites are trying to  
20 develop and implement best management practices for storm  
21 water protection, does that handbook provide the standard of  
22 care that they should follow?

23 A No.

24 Q Where can they find that standard of care?

25 A I would suggest that standard of care should be

1 found in the Construction Storm Water Permit.

2 Q Does the permit describe all situations?

3 A No.

4 Q Does that handbook provide additional information  
5 on various situations?

6 A Yes.

7 Q In your experience do most storm water  
8 practitioners rely on the CASQA handbook for determining  
9 appropriate BMPs for construction sites?

10 MS. DRABANDT: Objection. Speculative.

11 THE WITNESS: No.

12 BY MS. BERESFORD:

13 Q What do you think they rely on?

14 A I don't know.

15 Q Did you rely on that document when preparing the  
16 ACL for the site?

17 A Yes.

18 Q Can you please describe for me how?

19 A I reviewed several of the best management practices  
20 or BMPs that are described in there for gaining insight and  
21 knowledge as to which BMPs are best suited for different  
22 situations.

23 Q It sounds like you've got it from the standard of  
24 care for certain BMPs; is that correct?

25 MS. DRABANDT: Objection. Argumentative.

1 BY MS. BERESFORD:

2 Q That's okay. You don't have to answer.

3 Did you have assistance from anyone in reviewing  
4 and interpreting that document?

5 A No.

6 Q Okay. I will take that back (indicating).

7 Would you like to take a break?

8 A No.

9 Q All right.

10 A Just stretching my legs.

11 Q All right. I think we're going to get into now the  
12 specific violations that were alleged in the administrative  
13 civil liability complaint for the site.

14 So I would like to talk about Violation No. 1.  
15 If you could please refer to Exhibit 2 and state for the  
16 record what Violation No. 1 was -- alleged Violation No. 1.

17 A Violation No. 1 states, "The discharger violated  
18 Water Code Section 13376, Construction Storm Water Permit  
19 Discharge Prohibitions 3.A and 3.B, Section V.A.2, and  
20 Attachment D, Section A.1.B, Base Implant Waste Discharge  
21 Prohibition No. 8, and the Federal Water Pollution Control  
22 Act also known as the Clean Water Act. "Citation 33 USC,  
23 Section 1251 et seq. "Section 301, by discharging  
24 sediment-laden storm water from the site into Encanto  
25 Channel and thence Chollas Creek on the following six days:

1 December 4, 2014, December 12, 2014, December 17, 2014,  
2 December 31, 2014, May 8th, 2015, and September 15, 2015."

3 Q Thank you. So to paraphrase -- and please correct  
4 me if I'm wrong -- but the primary basis of the  
5 allegation -- of the alleged violation is for discharging  
6 sediment-laden storm water from the cite into Encanto  
7 Channel and thence Chollas Creek on those dates; is that  
8 correct?

9 A Yes.

10 Q Okay. I would like to talk -- well, first, is  
11 sediment a pollutant under the Construction General Permit?

12 A Yes.

13 Q Is it a pollutant if it's discharged at any level  
14 at any concentration?

15 A I would say yes. It's a pollutant when it's  
16 discharged. The -- yes.

17 Q Is sediment subject to the best control technology  
18 standard as defined in Appendix 5 of the construction  
19 permit?

20 A Yes.

21 Q Is compliance with best control technology measured  
22 by compliance with Section 5A2 and Table One of the permit?

23 A Could you repeat that?

24 Q Yes. Do you recognize that page?

25 A Yes.

1 Q And what is that page?

2 A It's a page out of the Construction Storm Water  
3 Permit related to F1 Standards in receiving water  
4 monitoring.

5 Q So my question is: Is compliance with best control  
6 technology measured by compliance with that table for  
7 sediment?

8 A Could you repeat the question one more time?

9 Q Yes.

10 MS. BERESFORD: Could you please read it back for  
11 me, please?

12 (Last question was read.)

13 MS. DRABANDT: Objection. Calls for legal  
14 conclusion.

15 THE WITNESS: My response is no.

16 BY MS. BERESFORD:

17 Q So how do they measure compliance with best control  
18 technology for sediment?

19 MS. DRABANDT: Same objection.

20 THE WITNESS: Well, I understood you to say  
21 compliance in general. So compliance with BCT or the best  
22 conventional technology means two things to me -- two  
23 different things because we have other regulations that  
24 apply, and so I would just say that with this -- compliance  
25 with BCT is one aspect of it, but there could be other

1 things that occur on the construction site that could cause  
2 other type of violations.

3 BY MS. BERESFORD:

4 Q Okay. So when evaluating whether there has been a  
5 violation of a permit for discharge of sediment, does  
6 compliance with that table matter in any way?

7 MS. DRABANDT: Objection. Calls for legal  
8 conclusion.

9 THE WITNESS: The information in the table is  
10 useful for determining how well or effective some of the  
11 best management practices are at the site, but, in my  
12 opinion, compliance with those numbers do not necessarily  
13 constitute compliance with the permit.

14 BY MS. BERESFORD:

15 Q So if there is a discharge of sediment and someone  
16 takes a turbidity sample, and the turbidity sample is 10  
17 NTUs, is that a violation of the permit?

18 MS. DRABANDT: Objection. Calls for legal  
19 conclusion.

20 THE WITNESS: I would say that a sample with 10 NTU  
21 is a very low amount, and so that would be what we would  
22 consider a fairly clean sample.

23 So that would not raise my -- my -- raise any  
24 alarms with me if I saw something of that amount, but,  
25 again, that is just one factor there could be other things



1 that could be a problem with that discharge other than  
2 sediment.

3 BY MS. BERESFORD:

4 Q If we're only talking about sediment, what number  
5 raises your alarm?

6 A There's so many factors that go into analyzing or  
7 monitoring storm water effluent, and so, yes, turbidity is  
8 one factor that we look at, but absent that just one factor,  
9 it would be tough for me to say a specific number that --  
10 that does raise an alarm for me.

11 I guess we could go back and forth on some numbers.  
12 I said 10 seems pretty clean to me. But, obviously, I do  
13 rely upon the numbers that are suggested in here as  
14 guidance.

15 But there are some -- some other factors that go  
16 into it that would base my opinion on whether a site is in  
17 compliance or not. It's more than just looking at  
18 turbidity.

19 Q So to be clear, just for the record, when you said,  
20 "I look at the numbers in here for guidance," you were  
21 referring to Table One; is that correct?

22 A Yes.

23 Q Okay. All right. Do you know what analytical  
24 measure is used to determine sediment values in a sample?

25 A Could you rephrase that?

1           Q     Yes. What analytical measure is used to evaluate  
2 turbidity concentrations in a sample?

3           A     Well, there are field monitors -- handheld field  
4 monitors that can determine turbidity. You can also take a  
5 sample and take it into a lab, and then it can be analyzed.  
6 So there are several methods by which it can be determined.

7           Q     The construction permit doesn't -- does the  
8 construction permit define a specific method that's supposed  
9 to be used?

10          A     I don't recall.

11          Q     Okay. All right. If you could refer to the  
12 exhibits to the ACL, which in total are Exhibit No. 3. And  
13 I would like you to refer to Exhibit No. 3 of Exhibit 3  
14 which I believe is a document with the date at the top of  
15 December 4.

16                Do you recognize this document?

17          A     Yes.

18          Q     Can you please state what it is?

19          A     It is a "Stop Work Notice of Violation" issued by  
20 the City of Lemon Grove to the Valencia project on December  
21 4, 2014.

22          Q     Did you rely on this document for alleged Violation  
23 No. 1?

24          A     Yes.

25          Q     The document has yellow highlighting on it.

1 Did you make that yellow highlighting?

2 A Yes.

3 Q And there's also red underline and red boxes.

4 Did you make those edits to the document?

5 A Yes.

6 Q Okay. Is 69th Street a water of the United States?

7 MS. DRABANDT: Objection. Calls for legal  
8 conclusion.

9 THE WITNESS: No.

10 BY MS. BERESFORD:

11 Q Did you rely on any other facts when alleging  
12 Violation No. 1 for December 4?

13 A No.

14 Q What facts demonstrate a discharge to Encanto  
15 Channel for December 4, 2014?

16 A To me what were specifically telling were the  
17 photographs that were attached to the report.

18 Q And can you specify in particular which photograph  
19 was used with respect to this specific violation?

20 A There were several. In general in looking at the  
21 photographs, they demonstrate that there was sediment-laden  
22 runoff that overwhelmed the best management practices at the  
23 site, spilled over the gravel bags, entered into the street,  
24 deposited a lot of water and sediment into the street, and  
25 then was discharged into the storm water conveyance system,

1 and also directly into Encanto Channel.

2 **Q Can you show me the evidence that it was deposited**  
3 **into the storm water conveyance channel?**

4 A I rely on the fact that I can see that the sediment  
5 reached all the way down to -- all the way down -- flowed  
6 down Akins Avenue into the City of San Diego storm water  
7 conveyance system. There's two inlets on Akins Avenue on  
8 each side of the street. Those connect into Encanto  
9 Channel.

10 Also directly opposite from the discharge point  
11 that's shown, there's -- I'm looking at the first page of  
12 photos, and I'm looking at the middle row, far right column,  
13 there's some bags of -- gravel bags where you can see  
14 sediment has overtopped -- sediment-laden water has  
15 overtopped that. The photo below it also shows the  
16 entrance.

17 Opposite that there is a connection to Encanto  
18 Channel where I observed the site several times where it  
19 would discharge there. So in my opinion based upon seeing  
20 the sediment in the street and in the gutters from these  
21 photos, that there was a discharge into the city storm water  
22 conveyance system and also into Encanto Channel directly.

23 **Q What facts are there that copper, lead, or zinc**  
24 **entered Chollas Creek?**

25 A I would rely on studies that have been done

1 nationwide and also statewide that show that construction  
2 storm water runoff is likely to contain those pollutants.

3 Q Do you have an estimate for this particular site  
4 what the concentrations of copper, lead, or zinc might be?

5 A No.

6 Q Do you know if any recommendations were provided to  
7 the discharger advising them of additional BMPs that they  
8 should implement on December 4?

9 A Basing this solely on Exhibit 3, I see that there  
10 was a box checked "Erosion control is inadequate," and a box  
11 that was checked saying "Failure to maintain  
12 erosion/sediment control device."

13 So from that I would take that the City notified  
14 the developer San Altos that those needed to be addressed.

15 Furthermore, the box at the top is checked saying  
16 "Stop Work Notice of Violation." That's a very serious  
17 effort by municipality. That's one of the strongest  
18 enforcement tools they have is to tell the developer they  
19 have to stop construction work on the site, and that the  
20 only work they can do is fixing their erosion control  
21 deficiencies.

22 Because for the developer time is money, and so  
23 every day that they are not constructing is another day that  
24 they are losing out on -- on profits. So this is a very  
25 serious matter when I see a city or a municipality issue a

1 Stop Work Notice. I know the developers do not like that.

2 I also notice on there that it says that the City  
3 will be notifying the regional board regarding the  
4 deficiencies.

5 Q Do you know if they implemented any of the  
6 recommendations within the 72 hours?

7 A I don't believe they did based upon the follow-up  
8 inspections that are in the exhibits and the continued  
9 deficiencies at the site for best management practices, and  
10 the continued existence of the Stop Work Notice, but I'm  
11 basing it upon those inspection reports and those  
12 enforcement documents from the City of Lemon Grove.

13 Q Has the water board issued other administrative  
14 civil liability complaints relying on inspection reports  
15 from a city?

16 A I believe so.

17 Q Do you know approximately how many?

18 A I do not.

19 Q Is that something that occurs frequently?

20 A I don't know.

21 Q Okay. Specific to December 4, what facts  
22 demonstrate the impacts to beneficial uses from this  
23 December 4 alleged discharge impacted Encanto Channel?

24 A Sediment can be very toxic to the wildlife. It  
25 ends up smothering the animals or the critters that live

1 in -- and I'm talking about insects and fish.

2 They get smothered by the sediment, so they're  
3 unable to see because of the turbidity. It's so cloudy. So  
4 it affects reproduction. It affects their ability to feed,  
5 and, furthermore, it -- it just clogs up and bottles up that  
6 system.

7 Q Do you have evidence that those impacts occurred in  
8 this instance?

9 A For specifically Exhibit 3?

10 Q Yes.

11 A I would say I don't have anything specific that  
12 shows that there was an impact to beneficial uses, but I  
13 would say that based upon the photographs that I see here,  
14 that it would be highly likely that there were impacts to  
15 beneficial uses based upon the amount of sediment that I see  
16 on the street, based upon the size of this construction  
17 site, and the difficulties the site had with implementing  
18 effective best management practices.

19 Q Do you have facts that this specific discharge  
20 created a direct threat to potential receptors?

21 A Only my knowledge that discharges like this do  
22 cause a threat.

23 Q Could more than 50 percent of the sediments  
24 resulting from this alleged discharge be removed from  
25 Encanto Channel?

1 A At this point, no.

2 Q Could it have been?

3 A Highly unlikely.

4 Q And why is that?

5 A When there are flows through Encanto Channel or any  
6 storm water conveyance system or creek, the flows are  
7 usually strong enough to where they will push through  
8 sediment.

9 There will always be some sediment that will stay  
10 behind typically, unless it's a very, very strong event.  
11 But typically the sediment will be pushed down, and so it  
12 would be very difficult to recover.

13 Q Do you know what the flow of Encanto Channel was on  
14 December 4?

15 A I do not.

16 Q Do you know if Mr. Harper actually observed whether  
17 or not sediment was flowing into the storm water conveyance  
18 on December 4?

19 A I do not know for sure. However, I will point out  
20 that as the listed inspector for the City for this  
21 inspection report/Notice of Violation Work Stop Notice,  
22 that -- and also an assumption that I would make that he  
23 took these photographs -- but on the -- on the third page of  
24 the photographs looking at the left-hand column middle  
25 photo, that there is flow of sediment-laden water going down



1 Akins Avenue towards the inlet.

2 So I would be surprised if he didn't see it go in.  
3 I believe the photo below it shows the inlet, but it's a  
4 little hard for me to see it in this reproduction of the  
5 photo.

6 Q Okay. Thank you. Let's talk about December 12th  
7 which is Exhibit No. 7, or I would like to refer to it as  
8 Exhibit No. 7 to the ACL.

9 BY MS. BERESFORD:

10 Q Do you recognize Exhibit 7?

11 A Yes.

12 Q Can you state what it is?

13 A Exhibit No. 7 contains -- the cover on Exhibit 7 is  
14 the administrative citation from the City of Lemon Grove to  
15 Tim Anderson the project manager for the San Altos Lemon  
16 Grove, LLC Development. It's dated -- the date of the  
17 violation observed is December 12, 2014. The date of the  
18 citation is December 15, 2014, and was issued by Leon  
19 Firsht.

20 Q Did you rely on this document for the -- for  
21 alleging that Violation No. 1 occurred on December 12th?

22 A I did. I also would like to add that in addition  
23 with Exhibit No. 7 is some attachments.

24 There's the attachment describing the Lemon Grove  
25 Municipal Code for discharge of non-storm water prohibited.

1 There's also a D-Max Engineering, Inc. Memo dated December  
2 12, 2014, from John Quenzer to Malik Tamimi. And it  
3 includes photographs and also sample results of turbidity.

4 Q Did you rely on any other evidence for alleging  
5 Violation No. 1 for December 12th?

6 A No.

7 Q Did you make the highlighting and red boxes that  
8 appear on Exhibit No. 7?

9 A Yes.

10 Q Okay. What facts indicate that sediment -- that  
11 storm water laden with sediment entered into the storm drain  
12 on December 12th?

13 A To me, what was most telling was the photographs.  
14 Specifically the photograph on page 3 of the D-Max  
15 Engineering report, and it's titled "Photo 2 Sites Valencia  
16 San Altos" which is the red arrow, and the background flow  
17 of runoff is the yellow arrow.

18 So what was most telling to me was the red arrow  
19 was displaying the sediment-laden runoff coming from the  
20 construction site through underneath or over the perimeter  
21 of the construction site, and the water is cloudy indicating  
22 that it's highly turbid and full of sediment.

23 Whereas, the runoff that's pointed by the yellow  
24 area is the runoff coming from the residential area,  
25 upstream, and you can see that it's clear.

1           And this is further indicated when you look at the  
2   next page, page 44 of the D-Max Engineering report of  
3   December 12, 2014, that has Photo 5, a photograph depicting  
4   two cups full of runoff, one from the red arrow the  
5   San Altos site, and one from the background or residential  
6   area, and the background is clear. It looks like you could  
7   drink it. Whereas the runoff from the San Altos site is  
8   cloudy or turbid indicating to me that it's full of runoff.

9           But to me that was very telling because the runoff  
10   from the residential area was what you would expect it,  
11   clear, and then the runoff from the construction site was --  
12   was cloudy.

13           And then you can see there's a gap in the curb, and  
14   the sediment was running off through that gap and directly  
15   into Encanto Channel, so that was a direct discharge.

16           **Q     Looking at Photo 2, do you know how far that**  
17   **picture is from a storm drain inlet?**

18           A     That is upstream of the storm drain inlet for Akins  
19   Avenue. The flow is going from the bottom of the photograph  
20   towards the top. But if you look in the middle of that  
21   curb, you can see there's a gap in the curb, and that's  
22   where the discharge was occurring, and that was flowing  
23   directly into Encanto Channel for that discharge there.

24           The photo down below is the storm drain inlet which  
25   is -- that's Photo 3 on that same page -- is depicting the

1 storm drain inlet that's the City of San Diego storm water  
2 conveyance system, and that's where other flows from the  
3 construction site flowed down and into.

4 Q Does the December 12 D-Max Engineering memo that  
5 we're talking about state that there was water flowing  
6 through this -- I don't see the gap in the curb, but you say  
7 there's a gap in the curb.

8 They state that they saw there was water flowing  
9 over the curb into Encanto Channel there?

10 A I'd have to read this report. No.

11 Q Did you rely on the turbidity sampling that D-Max  
12 did as part of preparing or alleging this violation on this  
13 date?

14 A It certainly is a high number, but there's enough  
15 information from the photographs alone, to me, to justify an  
16 alleged violation.

17 Q Do you know what method Mr. Quenzer used to measure  
18 the turbidity?

19 A The D-Max report on the second paragraph of page 1  
20 says each sample is collected and analyzed for turbidity  
21 using a calibrated field meter.

22 Q Do you have his calibrations logs?

23 A I do not.

24 Q Do you know if he has a QAQC log for the data?

25 A I do not.

1 Q Okay. Moving to December 17, I would like to refer  
2 you to Exhibit No. 10.

3 A I have it.

4 Q Okay. Can you please state what Exhibit No. 10 is?

5 A Exhibit No. 10 is a D-Max Engineering, Incorporated  
6 memo dated December 17, 2014 from Brian Nemer to Malik  
7 Tamimi, and the subject line states "December 17, 2014,  
8 Field Visit at Valencia Construction Site."

9 Q Did you rely on this document to state that there  
10 was the alleged Violation No. 1 on December 17?

11 A Yes.

12 Q Did you rely on any other facts for the allegation  
13 that Violation No. 1 occurred on December 17?

14 A No.

15 Q Did you make the highlighting and red underlining  
16 on this document?

17 A Yes.

18 Q And what are the facts here that support that  
19 sediment entered into the storm drain on December 17?

20 A I relied upon the photographs that were attached to  
21 the report. Photograph No. 1 is the construction site  
22 entrance that is located on Akins Avenue. It's adjacent to  
23 a City of San Diego neighborhood, and the gravel bags are  
24 covered in sediment.

25 There is sediment in the street. The gravel bags

1 are breaking apart, but it's clear that sediment came off  
2 the site and overwhelmed the gravel bags there.

3 Photograph 2 is another photo, just a close up of that, but  
4 it's -- you can see there's at the bottom of Photo 2 there's  
5 a blue curb, looks like a handicap curb. And it's hard to  
6 tell that it's blue because it's covered in brown sediment.

7 Photograph 3 on the following page demonstrates  
8 that there had been evidence of a sediment flow down Akins  
9 Avenue through the street.

10 And Photograph 4 continues to flow downstream on  
11 Akins Avenue from the construction site now into the City of  
12 San Diego's jurisdiction. The fence to the right -- just  
13 beyond that fence is Encanto Channel. There are storm drain  
14 inlets on both sides of the curb further downstream from  
15 this photo. And Photo 4 shows the activities by a  
16 contractor power washing the street to remove sediment from  
17 the street.

18 So based upon these photographs -- well, and  
19 there's continued pictures on 5 and 6 of the power washing  
20 down on Akins Avenue further along the City of San Diego  
21 residences.

22 But to me it clearly indicates there was a sediment  
23 discharge from the construction site into the gutter, and  
24 then ultimately into the storm water conveyance system for  
25 the City of Sand Diego directly into Encanto Channel.

1 Q Going to Photos 1 and 2, do you know how far that  
2 is from the storm drain inlet?

3 A I don't know specifically, but I would say that  
4 it's probably -- I'm going to estimate six or seven houses  
5 down. It's before you come to 69th Street.

6 Q And in Photo 5 and 6, they're power washing; is  
7 that correct?

8 A Yes. In photo 6 I can see a gentleman power  
9 washing the street and gutter, and in Photo 5 it looks like  
10 somebody with a squeegee-type device pushing water around.

11 Q Is it possible that they prevented the sediment you  
12 see in Photos 1 and 2 from reaching the storm drain by their  
13 power-washing activities?

14 MS. DRABANDT: Objection. Speculative.

15 THE WITNESS: My belief is that they were unable to  
16 do that because there was a storm event that happened in the  
17 early morning, and so I -- I -- I doubt they were out there  
18 on the site during the middle of the night doing that work.  
19 It looks like they were doing it post-discharge.

20 BY MS. BERESFORD:

21 Q What records do you have of the time of that storm?

22 A Well, one, it states it in the first paragraph of  
23 this memo, but also we look at rainfall data for the area.  
24 And that's one thing that we do to look to see when activity  
25 has occurred for precipitation.

1           Q     So did anyone observe the sediment going into the  
2 storm drain?

3           A     I don't know.

4           Q     Do you know which weather station you rely on when  
5 you're taking your rainfall data?

6           A     I know from one of my inspection reports that the  
7 NOAA Station for Lemon Grove was not active, and so I  
8 believe at one point I've cited the La Mesa Station which is  
9 close by. And also another weather reporting station that  
10 we've used for that region is the one at Gillespie Field.

11          Q     How far is that from the site?

12          A     Off the top of my head, I don't know. But it's  
13 when -- when one does a search for the closest weather  
14 stations, those are the two that come up.

15          Q     Is there a station at Federal Avenue?

16          A     I do not know.

17          Q     Okay. I would like to talk about December 31,  
18 please, and specifically Exhibit No. 12 to the ACL.

19          A     I have Exhibit No. 12.

20          Q     And what is that?

21          A     Exhibit No. 12 is a D-Max Engineering, Incorporated  
22 memo dated December 31, 2014, from John Quenzer to Leo  
23 Firsht and Malik Tamimi.

24                 The subject states "December 31st, 2014, Field  
25 Visit at Valencia Construction Site."



1 Q Did you rely on this memo for purposes of alleging  
2 Violation No. 1 for December 31, 2014?

3 A Yes.

4 Q Did you rely on any other facts for purposes of  
5 alleging Violation No. 1 for December 31?

6 A No.

7 Q Did you make the highlighting and redlining on the  
8 exhibit?

9 A Yes.

10 Q Okay. Can you please describe for me what facts  
11 demonstrate the discharge to Encanto Channel on December 31?

12 A I relied upon the photographs that were attached to  
13 the D-Max memo. Photo 1 demonstrates a sediment-laden and  
14 runoff leaving the construction site. It's very brown, very  
15 dark in contrast with the street.

16 And then I can see in the following photos such as  
17 Photos 2 and 3 shows the flows down along Akins Avenue from  
18 the construction site of the turbid sediment-laden storm  
19 water runoff.

20 And then the final Photograph 5 shows continuation  
21 of the runoff down towards the storm water conveyance  
22 inlet -- storm drain inlet just before you get to 69th  
23 Street on Akins Avenue. And you can see sediment has  
24 dropped out into the street, and there's still some water in  
25 the curb, and as it flows towards the gravel bags that are

1 surrounding the storm drain inlet.

2 Q So I see in Photo 5 gravel bags around the inlet.

3 Was there any evidence that sediment entered the  
4 storm drain system at that location?

5 A From this photograph I cannot see that it entered  
6 in. But given my experience with doing construction  
7 inspections through the years, gravel bags will slow down  
8 the flow of sediment-laden runoff, but they will not prevent  
9 the discharge of sediment-laden runoff from entering into a  
10 storm drain in that situation in that set up.

11 So, in my opinion, it was highly likely that there  
12 was a discharge of sediment during this storm event with  
13 construction runoff from the site.

14 Q Did you rely on any of the turbidity sampling for  
15 purposes of determining your belief that a discharge  
16 occurred on December 31?

17 A I did see that they were in there, but I did not  
18 rely upon that. I relied upon the photographs and my  
19 observations from the photographs.

20 Q I had asked you earlier some questions specific to  
21 December. For purposes of convenience, I'm going to try to  
22 ask them generally for all of the December discharges. If  
23 you don't understand my questions, please let me know, and I  
24 will break them apart.

25 But earlier we had talked about what facts there

1 were that copper, lead, or zinc entered Chollas Creek, and  
2 we were talking specifically about December 4.

3 With respect to the December 12, 17, or 31, do you have any  
4 additional information for those dates that copper, lead or  
5 zinc entered Chollas Creek from these alleged discharges?

6 A No.

7 Q Okay. And for December 12, 17, and 31, do you have  
8 any facts beyond what we talked about for December 4 that  
9 impacts to beneficial uses from these alleged discharges  
10 impacted Chollas Creek or Encanto Channel?

11 A No.

12 Q And similar to my question about direct threat to  
13 potential receptors, do you have any additional facts for  
14 December 12, 17, or 31 that these alleged discharges caused  
15 a direct threat to potential receptors?

16 A No.

17 Q Okay. Let's talk about May 8, please, and I will  
18 refer you to Exhibit No. 18 of the ACL -- actually, let's  
19 move on.

20 Let's talk about September 15th, please. So I will  
21 refer you to Exhibit No. 22 of the ACL.

22 A I have it.

23 Q Can you please state what it is?

24 A Exhibit No. 22 is a City of Lemon Grove inspection  
25 form for the construction storm water compliance. The

1 inspector is Tad Nakatani. It's dated and initialed as  
2 September 15, 2015, 2:00 p.m., and it's an inspection of the  
3 San Altos Lemon Grove, LLC development named Valencia.

4 Q And did you rely on this document for purposes of  
5 alleging Violation No. 1 for September 15, 2015?

6 A I relied upon Exhibit No. 22 and Exhibit No. 21 for  
7 this allegation of a discharge.

8 Q For -- can you please identify for me the facts in  
9 Exhibit No. 22 that you relied on in saying that there was a  
10 discharge to Encanto Channel on September 15?

11 A Yes. First, it notes that's there was a rain event  
12 that happened since, you know, the last inspection here. It  
13 says that it was approximately 8/10ths of an inch.

14 Overall, in looking at the inspection report, it  
15 notes that there were significant areas of the site that  
16 lacked erosion control, that there was evidence of erosion  
17 throughout the site. It states that their physical  
18 stabilization was not effective. That there was some areas  
19 of the site were lacking perimeter control that would allow  
20 erosion to leave the site. There was a notation that there  
21 was no inlet protection on a storm drain near the southeast  
22 corner which would allow sediment-laden runoff to enter  
23 unchecked into the storm water conveyance system.

24 Furthermore, it states that there was a significant  
25 sediment on streets within the project and in gutter on

1 Akins. That there is the need for best management practice  
2 TC-1 which is protection of construction entrances, and it  
3 says, "TC-1 is needed on all driveways where vehicles will  
4 be driving."

5 Furthermore, it states that there are some small  
6 sediment piles that are not protected on the site. There's  
7 litter waste throughout the site. And then finally, it  
8 states that there was some sediment in the road and gutter  
9 near the southeast corner, and that sediment -- let's see.

10 So in conjunction with that statement and then also  
11 the recommended BMP recommendations -- it talks about  
12 improving perimeter controls, cleaning sediment out of the  
13 roadways and gutters, and adding inlet protection.

14 To me, based on the totality of that from this  
15 inspection report from the text of it that there was a  
16 discharge of sediment-laden runoff from the site that  
17 entered into Akins Avenue and flowed down it and likely  
18 entered into the storm water conveyance system.

19 **Q Does it note that he saw sediment in the storm**  
20 **drain area?**

21 **A No.**

22 **Q And what are the facts from Exhibit 21 that you**  
23 **rely on to support your allegation of Violation No. 1 for**  
24 **September 15th?**

25 **A Exhibit No. 21 is an administrative citation from**

1 the City of Lemon Grove that was issued on September 22,  
2 2015, by Gary Harper for violations that were observed on  
3 September 15, 2015. Notably, it talked about inadequate  
4 BMPs, but also it says evidence of discharge reports.

5 The citation was for a \$1,000 it was issued to Tim  
6 Anderson the cite representative project manager for the  
7 San Altos Lemon Grove Project-Valencia Hills.

8 Q Do you know what they -- what the City relied on  
9 when it issued the citation stating evidence of discharge  
10 reports?

11 A No.

12 Q Are you aware that citation is under appeal?

13 A I'm aware that some citations are under appeal.  
14 I'm unsure whether that one is specifically under appeal.

15 Q Would that matter to your evaluation if the City  
16 were to retract that citation?

17 MS. DRABANDT: Objection. Speculative.

18 THE WITNESS: At this point I am confident with the  
19 allegation and the information I have in front of me.

20 BY MS. BERESFORD:

21 Q Could more than 50 percent of the sediment  
22 resulting from the alleged discharge on September 15 have  
23 been removed from Encanto Channel?

24 A I do not know. It is my opinion that it would be  
25 highly unlikely based on my experience in conducting

1 construction storm water inspections that for most  
2 discharges of sediment especially one like Encanto Channel  
3 where it has a hard bottom or concreted sides, it is very  
4 difficult to recover sediment. And I am unaware that any  
5 effort was made to recover the sediment.

6 Q Okay. We've been going about an hour and a half.  
7 Should we take a short break?

8 MS. DRABANDT: That's good.

9 THE WITNESS: That sounds good.

10 (Recess.)

11 MS. BERESFORD: Back on the record.

12 BY MS. BERESFORD:

13 Q Going back to alleged Violation No. 1 for September  
14 15, you stated that you relied on facts as discussed in  
15 Exhibit 21 and Exhibit 22 to the ACL.

16 Did you rely on any other facts for alleged  
17 Violation No. 1 for September 15?

18 A There were -- I was just thinking about this. You  
19 know, I did look at rainfall data, looked at the other  
20 inspection reports, you know, kind of the totality of stuff  
21 for the site, the compliance overall for the site. I think  
22 that's it.

23 Q Okay. And earlier we were talking about facts  
24 relating to whether or not copper, lead, or zinc entered  
25 Chollas Creek, and I believe you indicated to me that you

1       relied on various studies for that purpose; is that correct?

2           A     Yes.

3           Q     Were those studies stated in the ACL or the  
4       technical report?

5           A     No.

6           Q     Do you know what those studies specifically were?

7           A     There was a Caltrans study. There was one, I  
8       believe, for -- for statewide construction sites. I don't  
9       recall the -- the author, and then the CEPA's guidance  
10      concerning what is in construction runoff.

11           But I believe in the permit, itself, it talks about  
12      what are the constituents of construction storm water  
13      runoff.

14           Q     Okay. Moving right along to Violation No. 2.  
15      If you could, please, refer to the ACL complaint and state  
16      what alleged Violation No. 2 is.

17           A     I may have lost the first part. Let me see. Okay.

18           Q     Why don't you clip --

19           A     Sure.

20           Q     -- to Exhibit No. 2 --

21           A     Yeah.

22           Q     -- so that stays together?

23           A     Will do. Okay. Violation No. 2 in the complaint  
24      states "The discharger violated Construction Storm Water  
25      Permit, Attachment D, Section B, 1B by failing to implement



1 material stockpile BMPs at the site on the following 10  
2 days: December 2 through December 8, 2014, December 15,  
3 2014, May 13, 2015, and September 15, 2015."

4 Q Earlier we talked about the definition of an  
5 inactive site.

6 Does the construction permit define when a site is  
7 actively being used?

8 A There is a definition under the "Erosion Control  
9 Section" that was right underneath the Footnote 1 that we  
10 discussed earlier in relation to erosion controls.

11 Q And that's for active areas?

12 A Yes.

13 Q Okay. Do you know how the Lemon Grove inspectors  
14 defined active versus inactive areas?

15 A No.

16 Q Do you know how the D-Max Engineer inspectors  
17 defined active versus inactive areas?

18 A No.

19 Q Okay. Would it be reasonable for a construction  
20 company to not cover a stockpile that has been used within  
21 the past 14 days and the chance of rain is less than 50  
22 percent in the next 48 hours?

23 MS. DRABANDT: Objection. Speculative.

24 THE WITNESS: You're asking me if it's reasonable.  
25 I would say that it would be a violation of the Construction

1 Storm Water Permit if they were to do so.

2 BY MS. BERESFORD:

3 Q To not cover an active stockpile?

4 A To not cover a stockpile that's not actively being  
5 worked on.

6 Q Okay. How do you define -- or how does the permit  
7 define actively being used?

8 MS. DRABANDT: Objection. Calls for legal  
9 conclusion.

10 THE WITNESS: That section of the permit does not  
11 define actively.

12 BY MS. BERESFORD:

13 Q Do you -- when -- in your interpretations is it --  
14 is that definition different than whether it's been used in  
15 the last 14 days?

16 A Yes.

17 Q Can you please be more specific then in what your  
18 definition of it is then?

19 A If you read the permit language specifically, it's  
20 in a section that's in a different section from the active  
21 versus inactive definition, and it uses the word "actively,"  
22 and my reading of that section of the permit is that one is  
23 actively pulling material from that stockpile.

24 And the reason being, is that we are not only  
25 concerned with erosion due to rain events, but there's also

1 a component that's concerned about wind erosion. And so,  
2 obviously, if a sediment pile or some sort of a material  
3 pile is not covered and not being used, then it would be  
4 open to wind erosion.

5 So, therefore, it is our understanding of the  
6 permit that unless one is actively removing material from  
7 that stockpile, it needs to be covered.

8 Q Okay. Let's talk about December 2nd, and if I can  
9 refer you to Exhibit No. 2 of the ACL?

10 A I have it.

11 Q Did you rely on this document in alleging Violation  
12 No. 2 for December 2nd?

13 A Yes.

14 Q Did you rely on any other facts for purposes of  
15 alleging Violation No. 2 for December 2nd?

16 A Yes.

17 Q And what other facts did you rely on?

18 A I believe I looked at rainfall data indicating that  
19 there were imminent storms.

20 Q Did you rely on any other facts for alleging the  
21 Violation No. 2 for December 2nd?

22 A Mainly the photographs from -- from the inspection  
23 report. There might have been some other things, but right  
24 now just mainly I recall using the photographs.

25 Q Okay. Did you do the highlighting and red box

1 notations on this Exhibit No. 2?

2 A Yes.

3 Q Okay. And what were the stockpiles that are  
4 subject to the violation for the State?

5 Well, I can see on -- it looks like on page 5 of  
6 the photographs, there's a photograph top center dated  
7 December 2, 2014, 12:48 p.m. I've put a box around it in  
8 red and put a text box stating "Unprotected stock pile."

9 I see in the picture, it looks like a roadway, and  
10 to the left is a large pile of dirt has no protection as far  
11 as there's no black visqueen plastic. There's no fiber  
12 roles around the bottom of it to contain it. It's just an  
13 exposed, unprotected stockpile.

14 Q Do you have any information as to whether or not  
15 they were going to -- well, let me rephrase.  
16 Going to the stockpile on -- in the center of that page 5 of  
17 the photographs --

18 A It looks like the photo in the bottom right is a  
19 continuation of that same stockpile.

20 Q Okay. So just to be clear: The stockpile that you  
21 were just talking about, that's the stockpile in those two  
22 photographs?

23 A Yes.

24 Q Okay. Do you have any information about whether  
25 they were going to work on that stockpile in the afternoon

1 of December 2nd.

2 A I would be highly surprised that they would be  
3 working on it because they were under Stop Work Notice.

4 Q Had they received that yet? I would like to look  
5 at the front page of Exhibit No. 2, and it says "The Stop  
6 Work Notice was issued at 3:00 p.m."

7 Do you see that?

8 A Yes.

9 Q And the photos were taken at what time?

10 A 12:48.

11 Q So they had worked on that stockpile at 12:48 and  
12 the time they received this document?

13 MS. DRABANDT: Objection. Speculative.

14 THE WITNESS: I don't know, but I would be  
15 surprised given that the inspector came out, and with the  
16 threat of a storm the construction storm water permit  
17 would -- would require them to focus their efforts on  
18 getting the site prepared for a storm event.

19 BY MS. BERESFORD:

20 Q Is it reasonable for a construction company to work  
21 on a stockpile in the afternoon and cover it at the end of  
22 the day if the storm is expected the next day?

23 A Under my reading of the Construction Storm Water  
24 Permit, unless they are actively pulling material from the  
25 stockpile, then, no, it would not be acceptable for them to

1 have a stock pile uncovered.

2 Q Do you have any -- strike that.

3 Are there any other stockpiles on December 2nd that  
4 you believe gave rise to this alleged Violation No. 2?

5 A In looking at the inspection report dated 12-2-2014  
6 by Gary Harper on page 2 of his inspection report, there's  
7 the notation that when regards to stockpiles, it says, "Some  
8 are covered. Some are not. Effective: Yes or no. No,"  
9 Which indicates to me that there were more than one  
10 stockpile that was uncovered.

11 Q Okay. Any other facts or other stockpiles that  
12 were subject to this Violation for December 2nd?

13 A Not that I know of.

14 Q Violation 2 alleges that this violation continued  
15 on December 3rd; is that correct?

16 A Let me correct that. I just --

17 Q Sure.

18 A We're going through these very quickly, and there  
19 are other photographs that are dated from 12/2 in the same  
20 time period that appear to be different stockpiles, so I  
21 would say that's not the only one.

22 Q Can you identify for me what those are?

23 A Sure.

24 Q So looking at page -- so on page 5 of the photos  
25 there are stockpiles in the upper right, the upper middle,

1 the lower right.

2 On page 6 there appears to be stockpiles on the  
3 upper left and right, the middle right and left, the lower  
4 middle.

5 On the following page, page 7 there are stockpiles  
6 on -- it looks like upper right, middle right. They are  
7 sprayed with an orange dyed mulch, but does not appear that  
8 they have a perimeter control around them. There's a  
9 stockpile, looks like on the middle bottom that's uncovered.  
10 The stock pile on the bottom left does not have perimeter  
11 control of it, although it has the visqueen on top.

12 On the following page, upper middle, there appears  
13 to be stockpiles that are uncovered. The upper right appear  
14 to be stockpiles, uncovered. The lower right, uncovered  
15 stockpile. And then in the bottom left are stockpiles that  
16 appear to have been sprayed with an orange soil binder of  
17 some type, but does not have perimeter control.

18 Q Okay. Anything else?

19 A No.

20 Q Okay. So let's move to December 3rd.

21 What evidence do you have that there were  
22 insufficient stockpiles BMPs on December 3rd?

23 A Based upon the other inspections that were done  
24 later on, they continued to have citations of uncovered  
25 stockpiles and photographs of uncovered stockpiles.

1 Q So you're relying on evidence from other days?

2 A Yes.

3 Q For the allegations of this day?

4 Let's look at December 4, and I will refer you to  
5 Exhibit No. 3 to the ACL.

6 A Yes, I have it, Exhibit 3.

7 Q Did you rely on this Exhibit No. 3 for the  
8 allegation or Notice of Violation 2 for December 4?

9 A Yes.

10 Q Did you rely on any other evidence for the Notice  
11 of Violation No. 2 for December 4?

12 A Not that I recall.

13 Q I hate to ask this question over and over again.

14 Did you do all the highlighting and red underlining  
15 for all the exhibits?

16 A Yes.

17 Q Okay. What is the basis of the Notice of Violation  
18 No. 2 for December 4?

19 A In the photographs that were taken by the City of  
20 Lemon Grove inspectors -- inspector in Exhibit No. 3 from  
21 December 4, 2014, at the site I can see stockpiles that are  
22 either uncovered and lacking perimeter control around them,  
23 or that are missing perimeter control, or that have  
24 insufficient coverage.

25 Q Can you identify which ones they are for me?



1           A     Yes. Looking at the third page of photographs, in  
2     the -- in the upper right or -- I'm sorry -- upper left  
3     photo it looks like it was dated 12-4-2014 at 8:55 a.m., I  
4     believe -- it's a little hard to read in this  
5     reproduction -- but it appears to be a stockpile that's  
6     sprayed with some orange material.

7                 But it is lacking perimeter control. And it looks  
8     like even the coverage with the soil binder is incomplete  
9     because there are erosion rills depicted on it.

10                On the next page --

11           Q     Just to be clear -- I'm sorry. I just want to be  
12     sure we're looking at the same one.

13                Is this the photograph that you mean that has the  
14     little box up at the top of the slope there (indicating)?

15           A     Correct.

16           Q     Okay.

17           A     Again, the reproduction is tough to see, but I  
18     believe that is a stockpile.

19                On the next page the middle and right upper  
20     photographs display stockpiles that are covered with a white  
21     plastic. They are not covered completely, and they fail to  
22     have perimeter control around them.

23                Looking at the photos -- looking at the next row  
24     down on the left middle, again, there's plastic on some of  
25     these stockpiles, but it's not complete coverage, and

1 there's no perimeter control.

2 The same with the middle photograph. Looking at  
3 the middle right photograph, again, there's no perimeter  
4 control around the stockpiles. Same with the photograph of  
5 the stockpile on the lower right. You can see one stockpile  
6 is covered with plastic but does not have perimeter control.  
7 And then slightly above it is another stockpile that has no  
8 coverage whatsoever.

9 Next page, I think the middle left is the same  
10 photograph of -- that we saw on the previous page, but  
11 again, it's one stockpile completely uncovered and another  
12 has plastic on it, but is lacking perimeter control. And  
13 then the bottom right looks like a stockpile that has  
14 partial coverage and no perimeter control.

15 THE WITNESS: Also from the Stop Work Notice, it  
16 does state that there was a deficiency noted and that  
17 stockpiles are to be covered.

18 BY MS. BERESFORD:

19 Q Anything else?

20 A No.

21 Q Okay. You alleged that stockpiles continue to be  
22 covered on December 5th; is that correct?

23 A Yes.

24 Q And what evidence do you have of that?

25 A Based upon Exhibit No. 4 which is the City of Lemon

1 Grove inspection dated December 8, 2014, I see that there  
2 were continued deficiencies in covering stockpiles.

3 Q Do you know if the stockpile is noted on December 8  
4 were the same as noted on the stockpile for December 4?

5 A I do not know.

6 Q Is it possible that after they got the notice on  
7 December 4 that they went out and covered all the  
8 stockpiles?

9 MS. DRABANDT: Objection. Speculative.

10 THE WITNESS: Yes, it's possible. But, again, I  
11 have trouble understanding why a stockpile would be  
12 uncovered if they're under a Stop Work Notice.  
13 Their efforts should be focused on correcting deficiencies  
14 on BMPs and not doing work or creating new stockpiles.

15 BY MS. BERESFORD:

16 Q Do you have any evidence that the stockpiles were  
17 uncovered on December 6th?

18 A I do not.

19 Q How about December 7th?

20 A I do not, other than, like I said, my -- my belief  
21 based upon the inspection reports that the continued  
22 deficiencies noted occurred throughout the period, that they  
23 did not correct them, and then they were created anew.

24 Q Could the creation of stockpiles be related to the  
25 construction of BMPs?

1 A Possibly.

2 Q So I'd like to look at Exhibit No. 3 which is the  
3 December 4?

4 And did you spend a lot of time going through and  
5 citing numerous stockpiles that you thought needed better  
6 protection; is that accurate?

7 A Yes.

8 Q Let's look at Exhibit No. 4 which is December 8th.  
9 They have one page of pictures.

10 A Yes.

11 Q It looks like one photograph notes uncovered  
12 stockpile?

13 A Yes.

14 Q Is it possible that that stockpile was created to  
15 create new BMPs?

16 MS. DRABANDT: Objection. Speculative.

17 THE WITNESS: I don't know.

18 BY MS. BERESFORD:

19 Q So is it fair to say that on December 4 the report  
20 shows numerous stockpiles, and on December 8 there's a  
21 photograph of one?

22 A On December 8 there is one photograph that is  
23 supplied that shows an uncovered stockpile, yet if you look  
24 at page 2 of the inspection report in regards to stockpiles,  
25 there's a notation "Need to cover stockpiles," plural,

1 "Effective: Yes or no. No."

2 Q Is there any indication of what those stockpiles  
3 were being used for?

4 A No.

5 Q Okay. And sticking with Exhibit No. 4, there was  
6 an allegation of an uncovered stockpile for December 8.

7 Did you rely on Exhibit No. 4 for alleged Violation  
8 No. 2 for December 8th?

9 A Yes.

10 Q Did you rely on any other evidence for Violation  
11 No. 2 for December 8th?

12 A It's difficult to answer that, but I would say that  
13 not only am I looking at the inspection report but looking  
14 at the previous inspection reports to see if there's any  
15 consistent deficiencies. So I was looking at the totality  
16 of things but mainly relying upon the photograph and the  
17 text from the inspection.

18 Q Do you know who conducted the inspection on  
19 December 8th?

20 A I don't know who conducted the inspection on  
21 December 8th, but it says on the inspection report that the  
22 inspector name is Harper.

23 Q Did you ever talk with Mr. Harper about his  
24 inspection?

25 A No.

1 Q Did you ever talk with him about whether he thought  
2 they were improving from on December 8th as opposed to  
3 December 4th?

4 A No.

5 Q And I don't want to put words in your mouth. You  
6 noted on page 2, it says "Need to cover stockpiles," but you  
7 don't know what those stockpiles were being used for; is  
8 that correct?

9 A That is correct.

10 Q Okay. Do you know if it was raining on December  
11 8th?

12 A I don't recall.

13 Q What facts demonstrate that the alleged violations  
14 on December 5, 6, 7, or 8 resulted in impacts to the  
15 beneficial uses of Encanto Channel?

16 A Could you repeat that?

17 Q Sure. Are there any facts that this alleged  
18 Violation No. 2 uncovered stockpiles resulted in impacts to  
19 beneficial uses of Encanto Channel?

20 A I would look at the weather report to see if there  
21 where any storm events in that time period.

22 It's -- I see on this inspection report from  
23 Exhibit No. 4 that it talked about on Friday there was a 95  
24 percent chance of storm event, so that would color my  
25 opinion on whether there might have been impacts.

1 Q Right. I'm talking about December 5, 6, 7, and 8.

2 A So 5, 6, 7, and 8, I would -- I would want to look  
3 at the rainfall data to see, but potentially, there could be  
4 if there was a storm event.

5 Q What if there was not a storm event?

6 A Less likely, unless there was significant winds.  
7 If there was significant winds, it could have blown sediment  
8 into the receiving waters.

9 Q Did you attach wind data to any of your technical  
10 reports?

11 A No.

12 Q Did you look at wind data for your technical  
13 reports?

14 A No. I will -- I will correct that. In the weather  
15 information it does have wind data, so I apologize. It  
16 does.

17 In the precipitation data it includes the full  
18 weather report, and it does include wind. It's not my  
19 highest priority, but it is something that we do look at.

20 Q Do you have a miles-per-hour criteria that you look  
21 at when evaluating potential impacts?

22 A No.

23 Q So how do you evaluate wind data?

24 A There would be two things. One is the maximum  
25 velocity, but also if there's notations for gust -- but,

1 again, that's what I would say is a lesser point for us  
2 typically, but it is of importance.

3 There have been sites that we've contacted the air  
4 pollution control board on when -- even during the dry dust  
5 control. They're lacking dust control. We have made those  
6 contacts.

7 Q For December 5, 6, 7, and 8, do you have facts that  
8 there was direct threat to potential receptors for this  
9 specific alleged violation?

10 A Based upon the inspection reports that I saw and  
11 the lack of erosion control and sediment control on the  
12 site, I would say they -- the site posed a threat to water  
13 quality.

14 Q Is that the same as a direct threat to potential  
15 receptors?

16 A Yes.

17 Q I would like to talk about September 15 where I  
18 will refer you to Exhibit No. 22.

19 What is the basis for alleged Violation No. 2 for  
20 September 15?

21 A Exhibit No. 2 is the Lemon Grove inspection report  
22 by TAD Nakatani on September 15, 2015, of the Valencia site.  
23 In there -- in his inspection report he noted on page 2 in  
24 regard to material stockpiles, he described some small  
25 sediment piles are not protected "Effective: Yes or no.



1 No." On the following page, I believe -- that's it.

2 Q Do you know what the sediment piles were being used  
3 for?

4 A No.

5 Q Did you talk to Mr. Nakatani about this report?

6 A No.

7 Q Is it possible that they were going to be working  
8 on those piles that afternoon?

9 MS. DRABANDT: Objection. Speculative.

10 THE WITNESS: I don't know.

11 BY MS. BERESFORD:

12 Q Okay. All right. Let's go to -- we're going to  
13 talk about Violation No. 4 in a second, if you want to take  
14 a look at that.

15 MR. ROSENBAUM: Can we go off the record for one  
16 second?

17 MS. DRABANDT: Go off the record.

18 (Brief recess.)

19 MS. BERESFORD: We'll go back on.

20 BY MS. BERESFORD:

21 Q I'm sorry. Before we move on to Violation No. 4, I  
22 do want to go back and talk about the definition of active a  
23 little bit more.

24 Can you please look at that (indicating)?

25 A Yes.

1           Q     When you're thinking of stockpiles, does your  
2 definition of active stockpiles -- I'm sorry. Let's strike  
3 that.

4           MS. BERESFORD: Can we attach this as our next  
5 exhibit to the deposition, please? What exhibit are we?

6           THE REPORTER: Four.

7           MS. BERESFORD: Four, okay.

8           (Exhibit 4 was marked.)

9 BY MS. BERESFORD:

10          Q     Okay. Can you please state what this is?

11          A     I have in front of me what is called Appendix 5  
12 Glossary. It is a part of the Construction Storm Water  
13 Permit.

14          Q     And what is the first definition at the top?

15          A     The first definition at the top of the glossary is  
16 "Active Areas of Construction."

17          Q     And does that definition differ from what you  
18 described to me earlier as active stockpiles?

19          A     Yes.

20          Q     Why do you think the definition of active  
21 stockpiles is different than the definition of active areas  
22 of construction as defined for the permit?

23          A     I don't have the permit in front of me, but I  
24 believe the permit language talks about actively using  
25 stockpiles. It doesn't say "active stockpiles," it says

1 "actively using stockpiles."

2 Q And on that basis you think the definition is  
3 different?

4 A Yes.

5 Q Have you ever heard that discussed at any training?

6 A No.

7 Q Do you know if the CASQA BMP handbook discussing  
8 that?

9 A I do not.

10 Q You know, can I ask you to find that in here for  
11 me? Please forgive my ignorance, but I would like to know.

12 MR. ROSENBAUM: Can we go off the record for a  
13 second?

14 MS. DRABANDT: Sure. Let's go off the record.

15 MS. BERESFORD: Go back on.

16 BY MS. BERESFORD:

17 Q And I was asking Mr. Melbourne to please locate for  
18 me in the permit the reference to active and actively as  
19 respects to stockpiles that he has been talking about.

20 So if you could please do that?

21 A Yes. So if you look at Attachment D to the  
22 Construction Storm Water Permit which is -- Attachment D  
23 applies to Risk Level 2 Construction Sites and this site is  
24 a Risk Level 2 Site, so these are the requirements that  
25 apply to it.

1           And on page 1, Attachment D if you look at Section  
2 B which is "Good Site Management Housekeeping No. 1(b)," it  
3 says "Cover and burn loose stockpile construction materials  
4 that are not actively being used and (i.e., soils, spoils,  
5 aggregate flash stucco, hydrated lime, etc.)."

6           Q     Okay. And then I had asked whether you had heard  
7 in any training direction that that definition or use of  
8 actively was different from the active definition in the  
9 glossary.

10           Have you heard any direction on that in any  
11 training?

12           A     No.

13           Q     And do you know if the CASQA handbook discusses  
14 that?

15           A     I don't believe it does.

16           Q     And did you ever talk to San Altos specifically  
17 about that?

18           A     No.

19           Q     Do you know if Mr. Chiu discussed that with  
20 San Altos?

21           A     I do not know.

22           Q     Okay. Let's move to alleged Violation No. 4.  
23 If you could refer to the ACL and state what alleged  
24 Violation No. 4 is, please?

25           A     Linda, did you want this back (indicating)?

1 Q Yes. Please.

2 A Okay. Referring to Exhibit No. 2 the ACL  
3 complaint. Violation No. 4 is on page 3 of 7. It states,  
4 "The discharger violated Construction Storm Water Permit,  
5 Attachment D, Section D.2 by failing to implement erosion  
6 control BMPs in inactive areas at the site on the following  
7 22 days: December 1st through 9th, 2014, December 15th  
8 through 16th, 2014, January 6, 2015, January 14, 2015, May  
9 8th through 15th, 2015, and September 15, 2015."

10 Q Can you please provide for me the definition of  
11 inactive as you used for Violation No. 4?

12 A I don't know that I have it memorized from the  
13 permit, but in general they talk about areas that are  
14 inactive for 14 days. And so you would want to look at has  
15 there been activity in the last 14 days in the area? Is it  
16 scheduled to happen?

17 Q I'll refer you back to, I believe, it's Exhibit 4,  
18 the glossary. If you could look at page 5, there's a  
19 definition provided there.

20 Is that the definition that you were using for  
21 alleged Violation No. 4?

22 A Yes.

23 Q Can you please read that for the record?

24 A On page 5 of Appendix 5 to the Construction Storm  
25 Water Permit, the glossary definition for inactive areas of

1 construction states, "Areas of construction activity that  
2 are not active, and those that have been active and are not  
3 scheduled to be re-disturbed for at least 14 days."

4 Q Okay. Let's talk about December 1.

5 Can you, please, identify for me the facts that you  
6 relied on for this alleged violation for December 1?

7 A So I relied upon Exhibit No. 2 which is the Stop  
8 Work Notice issued by the City of Lemon Grove on December 2,  
9 2014, by -- it appears to be Gary Harper from the City of  
10 Lemon Grove.

11 Attached to his inspection report are some  
12 photographs that were taken on December 1, 2014, and  
13 December 2, 2014. In this exhibit I highlighted the first  
14 page of photographs in the upper left-hand corner of  
15 photograph -- and I put a text box that says "Lack of  
16 erosion control BMPs on inactive areas."

17 In the photograph you will see a roadway. It is  
18 Tangelos Place, and there is a house in the upper left part  
19 that is being -- like, stuccoed. You can see that in the  
20 lower right-hand corner of the picture that there's some  
21 orange. The orange is indicative of sprayed-on erosion  
22 control product.

23 There is no looks like no soil binder on the graded  
24 street, and there is a side part of the street which is a  
25 housing pad that is also not covered. In the foreground you

1 can see some equipment parked in that area. Also does not  
2 appear to have been sprayed, and there is two stockpiles  
3 that are uncovered that have not been sprayed.

4 For this alleged violation there was an imminent  
5 storm event, so these areas needed to be protected. And  
6 given that this, in my judgment, this area was inactive  
7 based upon looking at the site and the conditions around the  
8 development -- that this area was inactive.

9 I'm much more confident about the area near the  
10 house in that staging area and above that blue line that you  
11 see on the left side middle, but I think also a decent case  
12 can be made that the Tangelos Place, itself, should have  
13 been sprayed with some sort of erosion control material.

14 Because if you look in subsequent photos of the  
15 site, there was not substantial grading occurring on that  
16 road that was at the base at which it was until they paved  
17 it. And, yes, they were using it for transportation. So  
18 some trucks may have been riding on it, but as far as  
19 grading, there was no grading that occurred on that area for  
20 several months.

21 On the second page of photographs in the upper  
22 left, you'll see a car parked on a very flat graded area.  
23 That area does not appear, to me, to be active. They were  
24 parking vehicles on there. And so, again, in my opinion,  
25 that area should have been sprayed with some sort of erosion

1 control material.

2 The photo in the bottom right is a continuation of  
3 that area, and, again, I would say in my opinion, that  
4 should have been sprayed.

5 Q Any other areas that you deem to be inactive on  
6 December 1?

7 A No.

8 Q I'd like to go to the first page of photos.  
9 We talked a lot about those -- oh, I'm sorry. Strike that.

10 Did you ever ask anybody if there was going to be  
11 work performed on any of these areas in the next 14 days?

12 A I was not at the site on this date, so no.

13 Q In preparing the ACL when you were looking at these  
14 photographs, did you talk to anyone to find out if they had  
15 worked on these areas that you identified as inactive in the  
16 next 14 days?

17 A No. I did not talk to anybody, but I did look at,  
18 like I said, subsequent inspection reports and photographs  
19 to look at areas and to see when there was activity on those  
20 areas.

21 Also, in my follow-up inspections or my inspections  
22 that occurred later on, I could see the same pattern. And,  
23 again, this area -- this site was under a Stop Work Notice,  
24 so --

25 Q I don't believe it was on December 1.



1           A     Correct. It was not on December 1, but it was on  
2     December 2nd all the way through until it was released on  
3     January 22nd.

4           Q     Do you know what the weather report was for  
5     December 1?

6           A     I don't recall, but I know that there were  
7     significant storm events that occurred pretty much every  
8     week during the month of December.

9           Q     If someone is working on an active area, and they  
10    need to prepare for a storm event, do you know the timeline  
11    that they need to be -- how long that weather forecast is  
12    that they look at?

13          A     Well, there's -- there's different things that they  
14    will at look at. One is when they look for storm events  
15    that are greater than a 50 percent chance in the forecast,  
16    they'll often look 48 hours out.

17                But in this case, I believe, the storm event was  
18    predicted for the following day on December 2nd, and  
19    typically in the permit, from what I recall, it talks about  
20    trying to address these areas as soon as possible, but  
21    typically no later than 24 hours prior to the anticipated  
22    storm event.

23                And I think that's -- in the photographs, you can  
24    see, there was a meeting of staff, and so, therefore, it  
25    looks like they were trying to address the deficiencies at

1 the site before the storm event came.

2 Q How do you know that's what they were talking  
3 about?

4 A Well, I see freshly sprayed erosion control  
5 materials, but I also see in the inspection report that  
6 there were deficiencies, so, therefore, it's my belief based  
7 upon these photographs, that it was an effort to try to get  
8 the site into compliance before the storm event.

9 Q Could they have also been talking about where they  
10 were going to work that afternoon?

11 MS. DRABANDT: Objection. Speculative.

12 THE WITNESS: I don't know.

13 BY MS. BERESFORD:

14 Q Did you talk to anybody in this photograph about  
15 what they were talking about?

16 A No.

17 Q Do you know who conducted this inspection?

18 A The inspection report says Gary Harper conducted  
19 it, but in looking at the picture, I can see the Lemon Grove  
20 storm water personnel -- storm water personnel in the far  
21 right in the upper right-hand photograph on the third page.

22 Q Who is that?

23 A I don't recall her name, but I recall her being  
24 introduced to me on -- when I was at the site in March as a  
25 storm water employee of the City of Lemon Grove.

1 Q Did you talk to her about what that meeting was  
2 about?

3 A No.

4 Q Did you talk to Mr. Harper about what the meeting  
5 was about?

6 A No.

7 Q Do you have any idea what the meeting was about?

8 A I believe very strongly that it was a meeting to  
9 discuss deficient BMPs.

10 Q But why? Why could they not have been talking  
11 about where they were going to work that afternoon?

12 A Because this is a fairly substantial meeting, and  
13 there was an imminent storm event, and the City was very  
14 concerned that there was going to be a sediment discharge  
15 from the site.

16 In fact, if you look at page 2 of the inspection  
17 report, it says "See Stop Work Notice. Discharge is  
18 imminent. If NOAA forecast is correct, 100 percent heavy  
19 rain this afternoon."

20 Q And what is the date of this photograph?

21 A That's on the 1st.

22 Q Is that the first time that anyone from the city  
23 had been out there in several months?

24 A I do not know.

25 Q All right. Let's talk about December 2nd.

1 And what is the evidence that you rely on for violations of  
2 inactive areas for December 2nd?

3 A So in looking at the photograph from the inspection  
4 report from -- this is Gary Harper on December 2nd -- yes.  
5 On photograph page -- page 5 of the photographs, if you look  
6 at the middle row the far left, you'll see a photograph  
7 that's taken from Seville Way looking down towards Encanto  
8 Channel.

9 And this is a road that was graded but did not  
10 substantially change over the months. And it was used for  
11 some access, but was not being actively graded. That area  
12 was a source of a lot of the sediment discharges from the  
13 site.

14 And, in my opinion, should have had either some  
15 sort of soil binders on it or gravel all down it because  
16 there was no sort of -- of stopping. It was a steep slope,  
17 and it was an area of contention. And it was one that I  
18 identified in my March visit to them.

19 Not only would I inspect to see some sort of a soil  
20 binder or gravel on that because of the steepness, but also  
21 some sort of energy dissipators such as a straw wattle or  
22 gravel bag chevrons.

23 Q Do you have any photographs of the areas that you  
24 identified on December 1st? Do you have any photographs of  
25 those areas on December 2nd?

1           A     Yes. I would point to you on the 7th page of  
2     photos, if you were to look at the lower right-hand photo  
3     that has the text box "Lack of Erosion Control BMPs on  
4     Inactive Areas," again, that's Tangelos Place. And that  
5     area -- they finished grading that, and they did not do any  
6     other land disturbance to that until they paved it.

7           A photo looking in the opposite direction is on the  
8     next page in the upper left. Again, these were some steep  
9     slopes. Yes, there was traffic that could drive on there,  
10    but as far as land disturbance for construction activity,  
11    they could have put some sort of soil binder on there or  
12    some gravel to protect that.

13          Again, some energy dissipators given the steepness  
14    of the slope would have been helpful.

15          **Q     So for your interpretation of the permit driving on**  
16    **an area is not active use of an area?**

17          A     I have a tough problem with that because if you  
18    look at most of the areas where you focus on driving such as  
19    the entrances, they implement BMPs. They'll put on gravel,  
20    or they'll put in shaker plates because of the driving  
21    aspect to it and the fact that they don't want to track  
22    stuff off the site.

23          So when I look at some of these areas where they've  
24    graded it and there's no further grading that's going to go  
25    on to those sites until they put in the street, they might

1 do some digging for utilities on the side, but if they're  
2 done grading for that area, given the ease of being able to  
3 apply some sort of soil binder or gravel to some of these  
4 areas, in my mind and based on the permit requirements and  
5 my experience, that those are areas that they should  
6 protect. It makes a lot of sense.

7 It helps to prevent the erosion from happening in  
8 the first place. And if you look at the site back in --  
9 later in a few months -- later in May when I was out on the  
10 site, again, you saw completely unprotected areas, and it  
11 was a muddy mess, and it was a huge source of sediment for  
12 the site.

13 **Q Do you know if you can drive on soil binder?**

14 **A** You can, but it does break down.

15 **Q How quickly?**

16 **A** It depends on how much activity -- driving activity  
17 occurs on there. So more activity, then it would break down  
18 quicker. But as far as the application of it, it doesn't  
19 take much application, and it's very cost effective for  
20 sites. Also gravel, gravel is more expensive but has longer  
21 lasting impacts.

22 **Q Can you drive on energy dissipators?**

23 **A** It's best if you don't. Straw wattles hold a  
24 better for you to drive over than, say, a gravel bag, but  
25 they lose their ability on areas where you drive over them.

1 Q Have you ever heard in any training you've taken  
2 that active areas that people are driving on still have to  
3 have something like soil binders or gravel or something like  
4 that on it?

5 A I would not say that I've heard it in training  
6 because it's been a while since I've had some of the storm  
7 water training, but definitely I have seen it discussed on  
8 construction sites amongst, not only city inspectors,  
9 regional board inspectors, but also QSPs for the sites.

10 Q Do you know what sites those are?

11 A Definitely, we discussed it at the Garden Community  
12 Site in Mira Mesa, at the -- at the site that was -- I'm  
13 trying to think -- a site that we had in Encanto, but I  
14 can't remember -- I can't recall the name of it right now.

15 Q Do you know if it was discussed at the Garden  
16 Community Site before or after they received a Notice of  
17 Violation for it?

18 A I would say it occurred after the Notice of  
19 Violation was issued.

20 Q Do you know if these types of BMPs you're talking  
21 about -- BMPs on areas of a construction site where people  
22 are actively driving on them, is there a discussion of that  
23 in the CASQA handbook?

24 A I don't recall.

25 Q Okay.

1           A     There is a photograph on page -- on page, I believe  
2     it's 4 in the upper right that was dated 12-2-2014 at 12:49  
3     p.m. There's some --

4           Q     Hold on just a second, please.

5                     Can you show me which photograph you're referring  
6     to?

7           A     Sure. So there's some picture with the car in the  
8     middle.

9           Q     Uh-huh.

10          A     So it would be this picture and this picture.  
11     They're of the same area, just slightly different  
12     perspective (indicating).

13          Q     And what's the date of the photograph?

14          A     12-2.

15                     MS. DRABANDT: It might be page 5 of those.

16                     THE WITNESS: Yes. Page 5 of the photos.

17     BY MS. BERESFORD:

18          Q     I don't have it.

19          A     That one (indicating).

20          Q     Okay.

21          A     So if you look on there, the photo in the upper  
22     left and then the lower middle. It's a different  
23     perspective of the same areas, but, again, those areas  
24     there, they have the grading sticks out, but there's some of  
25     those side slopes appear to me to be inactive also. So



1 those -- I would have thought that they would have sprayed  
2 those also.

3 Q Did you ever talk to anyone about what those sites  
4 were scheduled to be used for in the next 14 days?

5 A No.

6 Q Okay. Let's talk about December 4. And I'm  
7 referring to Exhibit No. 3.

8 Can you please identify for me the areas that are  
9 subject to Violation No. 4 for December 4?

10 A So the one that really stood out to me from this,  
11 there's at least two or three photographs that caught my  
12 attention. But on the second page of photographs in the  
13 upper left, there is a box -- red box that I've identified  
14 "Lack of erosion control in inactive areas." So what's  
15 missing here on the front is -- this is one of the  
16 construction entrances. So what's missing there is gravel,  
17 and a shaker plate, or something like that.

18 But that's -- that's not the focus but -- but just  
19 that's one that thing stood out to me. But if you look up  
20 towards the center and then going towards the right of the  
21 photo. That area there was graded and is developed as a  
22 park for the residents there at the community, and so that  
23 area did not change substantially, and that was not an area  
24 where -- where they were driving up and around on.

25 And so that was an area that we had identified with

1       them that needed to be addressed with soil -- soil binders  
2       and also some runoff control given that there was a slope to  
3       it.

4           **Q       I'm sorry. Is the area shown in the picture?**

5           A       Yes. So in the photograph, the one in the second  
6       page of photos, upper left, you will see in the top left  
7       there is a retaining wall.

8           **Q       Uh-huh.**

9           A       And then on the retaining wall where it turns dark,  
10       where it's shaded on the right side of it, if you follow up  
11       that path there, that is the future park for the community.  
12       And so that section there had been graded, but was not --  
13       not set to be developed or anything else.

14                They put some picnic benches and some other things  
15       there eventually, but that was not an active area, and they  
16       were not driving on it either because there's no access.

17           **Q       But the park area, itself, is not shown in the**  
18       **photograph; is that correct?**

19           A       It is.

20           **Q       Can you point it out for me?**

21           A       Sure.

22           **Q       On the photograph the area that you're talking**  
23       **about?**

24           A       So this path (indicating) that is the future park  
25       for the development, and so this area here (indicating)

1 there's no access here (indicating).

2 Q Okay.

3 A That is closed off, and there's no -- it's not like  
4 traffic. I know you were trying to differentiate that in  
5 the previous case. There was activity because there was  
6 driving. What I'm trying to say is here, there's no driving  
7 occurring on there. It is a future park that they graded  
8 and that in my opinion should have been sprayed erosion  
9 control, and because it has a slope to it, it also needed to  
10 have some runoff control.

11 Q Is there a -- okay. Do you know if they were  
12 slated to do any additional work in this area past December  
13 4? Within the next week, say?

14 A I believe not. The only thing they were slated to  
15 do was landscaping, and then the last thing was -- and  
16 they're probably doing it at this time period now -- is to  
17 put in the benches and the tables.

18 Q So as of December 4 do you know if they were  
19 planning to do any work on that area between December 4 and  
20 December 20?

21 A I do not know that they were planning to do any  
22 work in that area.

23 Q Any other areas that were identified as inactive  
24 for Violation No. 4 of December 4?

25 A Yes. If you look at the next page there is in the

1 upper left -- it looks like there's a box container. And  
2 there were several areas that were sprayed with the orange  
3 bonded fiber matrix material, soil binder.

4 And you can see there's a lot of erosion rills, and  
5 there's a lot of erosion that was lost less So where they  
6 sprayed, but still there was a lot of erosion there. Those  
7 areas needed to be touched up. They needed to be repaired.

8 **Q Do you know if they were slated to work on those**  
9 **areas within the next 14 days?**

10 A I'm not aware that they were slated to be worked on  
11 in the next 14 days.

12 **Q Could they have been scheduled for that?**

13 A Again, I doubt it because they were under a Stop  
14 Work Notice.

15 **Q But could they have been scheduled for it?**

16 MS. DRABANDT: Objection. Speculative.

17 THE WITNESS: I don't know.

18 BY MS. BERESFORD:

19 **Q Any other areas?**

20 A If you go to the next page, the middle left where  
21 you see a bunch of the partially covered stockpiles. That  
22 area there, I think, could have also have been sprayed as  
23 being inactive. It does not look like to me that area was  
24 used to access the stockpiles, so, therefore, a soil binder  
25 would have been appropriate in that section.

1 Q Do you know what they were doing in that area as of  
2 December 4, or what they were scheduled to be doing?

3 A That was one of the later phases scheduled, so I  
4 don't believe there was any scheduled activity for that  
5 section.

6 Q Did you ever discuss with anyone what that schedule  
7 was?

8 A On later visits when I was on the site, I did talk  
9 to the site superintendent when they were on the site. I  
10 did talk with them about scheduling, yes.

11 Q And so did you discuss with a them what the  
12 schedule was with them for December?

13 A No.

14 Q So did you know the schedule for this area in  
15 December?

16 A No.

17 Q Any other areas?

18 A I don't think so.

19 Q Going back to the photographs on December 1st --  
20 the first page of photographs on December 1st.

21 Do you know if they implemented any BMPs?

22 A Excuse me. Linda, which exhibit are we on?

23 Q I'm sorry. December 1st which I believe is part of  
24 Exhibit No. 2.

25 A Okay.

1 Q And the first page of photographs.

2 A Okay. I now have Exhibit 2.

3 Q Do you know if they implemented any BMPs on that  
4 area in the next two weeks on that photograph of the 10:44  
5 a.m.?

6 A Could you rephrase the question?

7 Q Yes. So the photograph in the upper left-hand  
8 corner on the first page of photographs of December 1st  
9 where there's a box that says "Lack of erosion control BMPs  
10 on inactive areas."

11 Do you know if there were any BMPs implemented on  
12 that area after December 2nd?

13 A I do not know. I would refer to -- let me restate  
14 that.

15 I would -- in putting together the ACL complaint, I  
16 looked at the follow-up inspections to see if work was done,  
17 but I don't recall that they did put in BMPs on the 2nd on  
18 this site at that location. But I would refer to the  
19 December 2nd or the -- yeah, the December 2nd or later  
20 inspection reports to determine that.

21 Q Well, let's go to Exhibit 4, to the ACL which is  
22 the December 8th inspection.

23 A I have it.

24 Q Is there anything in this report that tells you  
25 whether or not they did anything on that area that was

1 identified in the December photograph that we were just  
2 looking at?

3 A No.

4 Q Going to the second page of photographs on December  
5 1 which is part of Exhibit 2.

6 A Exhibit 2, okay.

7 Q You just should probably keep those both handy.

8 A Exhibit 2.

9 Q The second page of photographs with photographs on  
10 December 1.

11 A Okay.

12 Q Is there anything in the December 8 inspection that  
13 tells you whether or not they implemented any BMPs on, say,  
14 December 5, 6, 7, and 8 on this specific area?

15 A No.

16 Q So we just looked at the December 4 inspection, and  
17 then we were looking at the December 8th inspection.

18 Can you tell me what evidence you have of lack of  
19 BMPs on inactive areas for December 5, 6, 7?

20 A The basis of my allegation that there were  
21 continued violations during that -- those time periods is  
22 based upon looking at the inspection reports in their  
23 totality.

24 And so, therefore, because the violations continued  
25 through that time period, and the Stop Work Notice continued

1 through that time period, it is my belief that those  
2 violations existed on those days intervening between the  
3 inspection reports.

4 Q So can you point to me for a specific area that you  
5 thought had violations on December 5, 6, and 7?

6 MS. DRABANDT: Objection. Calls for legal  
7 conclusion.

8 THE WITNESS: I don't know.

9 BY MS. BERESFORD:

10 Q All right. It's 12:25. Should we take a lunch  
11 break? Okay. So we'll go off the record.

12 (The luncheon recess was taken at 12:25 p.m.)  
13  
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1 SAN DIEGO, CALIFORNIA; JANUARY 13, 2016; 1:41 P.M.

2  
3 BY MS. BERESFORD:

4 Q Okay. So starting up again, we were talking about  
5 Notice of Violation No. 4 which alleges failure to implement  
6 erosion control BMPs in inactive areas of the site. And I  
7 would like to talk about December 8 which I will direct your  
8 attention to Exhibit No. 4 to the ACL.

9 And if you could please identify for me the  
10 inactive areas that are the subject to this alleged Notice  
11 of Violation for December 8th, please?

12 A Okay. I have Exhibit 4 in front of me. December  
13 8, 2014, the City of Lemon Grove inspection report. So  
14 looking at the photographs, there's only one page of  
15 photographs. There are seven photographs. I've indicated  
16 with red boxes two photographs as -- let's see, actually  
17 one, as having being in an inactive area.

18 The photograph in the lower right that I have  
19 highlighted, that is looking to the northeast from Tangelos  
20 Place and, again, it's my assertion that when they graded  
21 this street area, that they were not planning on doing any  
22 other major grading on this section.

23 And, therefore, I -- in my opinion, that area  
24 needed to have some sort of soil cover, whether it be  
25 sprayed with a soil binder or gravel laid down.

1           Q     Okay. Any other inactive areas that are the  
2     subject for this violation for December 8th?

3           A     I also was concerned with the photo in the lower  
4     left along the orange construction fencing. I felt that  
5     area could have been sprayed also as far as soil -- have  
6     some sort of soil cover on it.

7           Q     Does it appear that both of those areas are being  
8     used as a way for people to drive?

9           A     The one in the lower right on Tangelos Place, that  
10    is a graded roadway. So I would not be surprised if they  
11    did do some driving on it. But at that phase of the  
12    construction in that development, I wasn't expecting there  
13    to be very much activity on that section.

14           For the one in the lower left -- the area that I'm  
15    specifically referring to is along the orange construction  
16    fence that's outside of the graded road area. I see they  
17    have some electrical poles up and other things, and so that  
18    area perhaps -- that area was active.

19           Q     Is there any other evidence that you're relying on  
20    for the violation for December 8th?

21           A     Noting that the inspector found that there was  
22    ineffective physical stabilization of the site and,  
23    furthermore, just in totality looking at the inspection  
24    reports over time, they had a lot of problems with erosion  
25    on the site.

1 Q You're referring to the physical stabilization --  
2 you're referring to the first page of Exhibit 4?

3 A Correct.

4 Q Does it specify the areas?

5 A It does not.

6 Q Let's talk about December 9, and I'll direct your  
7 attention to Exhibit 5.

8 A I have Exhibit No. 5 in front of me.

9 Q Can you state what that is please?

10 A Exhibit No. 5 is a Correct Work Notice issued by  
11 the City of Lemon Grove on December 9, 2014 for the Valencia  
12 project by, it appears to be Gary Harper of the City of  
13 Lemon Grove. And on it the San Altos Place Development is  
14 directed to correct deficiencies within 24 hours.

15 Q And what evidence are -- well, did you rely on this  
16 document for the allegation of Notice of Violation No. 4 for  
17 December 9?

18 A Could you repeat your question?

19 Q Did you rely on Exhibit No. 5 for the allegation  
20 that they failed to implement erosion control BMPs in  
21 inactive areas for December 9?

22 A Looking at my technical analysis, I would say I  
23 don't recall.

24 Q Do you -- what did you rely on for the allegations  
25 of this alleged violation on December 9?

1           A     I'm trying to determine if I had a typo because I  
2     don't see it as listed in my technical analysis, unless I'm  
3     misreading it, that I did use it to support it, but it makes  
4     sense that I would have. I can point to photos that I would  
5     comment on.

6           Q     Okay. Well, we'll state for the record, that the  
7     technical analysis on page 10 doesn't cite any evidence per  
8     December 9, but please tell me if you believe there are  
9     failure to implement BMPs on inactive areas on December 9?

10          A     So looking at, for instance, page 2 of the -- or of  
11     the Correct Work Notice, I see there are on the upper middle  
12     and the middle right there are two photographs looking  
13     northeast on Tangelos Place that I had indicated previously  
14     that I felt should have some sort of soil cover on it. You  
15     can see there are some erosion rills coming down the center  
16     of that pathway.

17          Q     Can you give me the time stamp of those photographs  
18     that you're talking about?

19          A     I believe it was 1:00 -- 9 after 1:00 p.m. So I'm  
20     looking at the second page of photographs.

21          Q     Okay. The 1:09 p.m. photograph?

22          A     Correct.

23          Q     Okay.

24          A     There's two of them.

25          Q     Anything else?

1           A     The photo on the same page in the lower right.  
2     That area given the -- it looks like some of the growth of  
3     vegetation that's brown on there. That could be an area  
4     that needs application of it, but it -- at this point I --  
5     it's hard to tell. As far as it may have been sprayed, but  
6     it does not have the orange coloration like the other  
7     pictures do, so I'm tending to think that it needed to have  
8     some coverage on it too, but it appears inactive based upon  
9     the vegetation growth upon it.

10          **Q     Could that area have been a roadway that people**  
11     **were driving on for the construction site?**

12           MS. DRABANDT: Objection. Speculative.

13           THE WITNESS: From my view of the photograph, it  
14     does not appear to be a roadway. It looks more like a pad.  
15     BY MS. BERESFORD:

16          **Q     Do you know what that area is used for, or was it**  
17     **was used for on December 9?**

18           A     It appears to be a housing pad that has not been  
19     developed. I'm familiar with the location on the site.

20          **Q     And where is that?**

21           A     It's in the -- it's off of Tangelos Place. I would  
22     say it's in the north of the site.

23          **Q     Anything else for December 9?**

24           A     No. The other photos that I -- draw my attention,  
25     but whether the way they were reproduced or the sizing, it's

1 difficult to make out a lot of the characteristics of it.

2 The first page of photos taken on December 9th at  
3 1:38 p.m. and 1:39 p.m., those are on the right side top and  
4 right middle column -- I'm sorry.

5 On the right upper right and the middle right,  
6 those two photos if I had better view, I might be able to  
7 make a better assessment. I would also note that the  
8 inspection form is checked stating that erosion control is  
9 inadequate.

10 Q Does it say where?

11 A It does not.

12 Q Let's talk about December 16. And I will direct  
13 your attention to Exhibit No. 9 to the ACL.

14 A I have Exhibit No. 9 in front of me.

15 Q Did you rely on this document for Notice of  
16 Violation No. 4 for alleged violations on December 16th?

17 A Yes.

18 Q Did you rely on any other evidence for this  
19 allegation for December 16?

20 A I can't think of anything specifically, but just to  
21 say that I know, and I looked at, like I said, rainfall data  
22 and the other inspection reports in forming my opinions on  
23 these site -- on this site.

24 Q Okay. Can you please identify for me the facts  
25 that establish lack of erosion control BMPs in inactive

1       **areas for December 16?**

2           A       Sure. Looking at page 1 of the City's letter, it  
3       states that the Stop Work Notice is still in effect, and  
4       that no work other than implementation of best management  
5       practices are allowed.

6           And it states the deficiencies include failure to  
7       effectively implement erosion prevention and sediment  
8       control BMPs.

9           Q       Do you know in that sentence, were they talking  
10      about erosion prevention and sediment control BMPs for the  
11      construction permit or something else?

12           MS. DRABANDT: Objection. Speculative.

13           THE WITNESS: I do not know. On the second page  
14      which is the City of Lemon Grove's administrative citation  
15      notes. It's the second citation for \$200. It's dated  
16      December 16, 2014, signed by Leon Firsht. The date of  
17      violation observed is December 16, 2014. It cites various  
18      Municipal Code citation violations, and then it states,  
19      "Install BMPs per recommendations and permit."

20           BY MS. BERESFORD:

21           Q       Do you know which permit he was talking about  
22      there?

23           MS. DRABANDT: Objection. Speculative.

24           THE WITNESS: I do not know. But the attached  
25      report is the December 16, 2014, City Inspection Report by

1 Tad Nakatani. On that inspection report under "Physical  
2 Stabilization Description Explanation" it states, "Numerous  
3 gullies still unprotected. Some pads and slopes still  
4 unstabilized. Effective: No."

5 BY MS. BERESFORD:

6 **Q Does it state where on the site that is located?**

7 A It does not, but it does have a map on the final  
8 page of the site, and there is a tile where there's numbers  
9 circled to indicate different deficiencies.

10 And then on the map, the numbers are circled. So  
11 what draws my attention is No. 2 where it states,  
12 "Stabilization Erosion Controls Needed," and it cites the  
13 areas of the site in the upper portion of the site along  
14 Tangelos Place and those are housing pads.

15 It does also site an area in the far right of the  
16 site that I identified on a previous photo where there's  
17 some construction fencing.

18 **Q Anything else for December 16th?**

19 A It does mention on page 2 of Nakatani's inspection  
20 under "Recommended Corrective Action." It states, "Bad  
21 erosion controls to stabilize remaining pads, slopes of  
22 edges at pads, and area near entrance at Akins."

23 And it also noticed -- I noticed that on the second  
24 page of Nakatani's inspection report under "Discharge  
25 Locations," there's a note that says, "There's still



1 significant sediment on Akins." And, "Is the location free  
2 of significant erosion or sediment transport?" And the  
3 identification is "No," and that concerns me also.

4 And it goes to the point of these areas that --  
5 that are being cited as not having effective erosion control  
6 that -- that would make sense that then there would be  
7 significant sediment on the street and Akins from the site.

8 Q Does anywhere in his report identify where they  
9 have been actively working to implement BMPs versus areas  
10 they were not working to put BMPs?

11 A Could you state that again?

12 Q Does Mr. Nakatani's report identify or distinguish  
13 areas where they may have actively been working to implement  
14 BMPs versus areas they were not working to put BMPs?

15 A Well, one thing that I note in the inspection  
16 report is that northeast entrance -- and this is on the top  
17 of the second page of Nakatani's report -- it mentions that  
18 the northeast entrance is not going to be used for vehicle  
19 traffic, and so, therefore, that gate is locked up, and  
20 there is gravel bags placed.

21 So when you say active or actively, it sounds like  
22 they were working to install BMPs at that section. But as  
23 far as construction activity, they were still under a Stop  
24 Work Notice.

25 Q Sure. But could they have been erecting berms, or

1 detention basins, or anything like that?

2 MS. DRABANDT: Objection. Speculative.

3 THE WITNESS: Could you restate the question?

4 BY MS. BERESFORD:

5 Q Yes. Could they have been erecting berms, or could  
6 they have been engaged in active activities on the site to  
7 implement BMPs?

8 MS. DRABANDT: Same objection.

9 THE WITNESS: I don't know.

10 BY MS. BERESFORD:

11 Q So it's possible that some areas were active to  
12 implement BMPs?

13 MS. DRABANDT: Objection. Speculative.

14 THE WITNESS: I don't know.

15 BY MS. BERESFORD:

16 Q Okay. Let's talk about January 6, and I will  
17 direct your attention to Exhibit No. 24.

18 A I have Exhibit No. 24.

19 Q Did you rely on this document for the -- for the  
20 Notice of Violation No. 4 for January 6?

21 A Yes.

22 Q Did you rely on any other evidence for the alleged  
23 violation for January 6?

24 A Again, I may have relied upon precipitation data  
25 and other inspection reports to -- to look at, you know, how

1 the site was shaping up, but the bulk of it was from this  
2 exhibit.

3 Q Can you identify for me the inactive areas that  
4 were the subject of the violation for this day?

5 A So this Exhibit No. 24 is the City of Lemon Grove  
6 inspection report for January 6, 2015, by Tad Nakatani for  
7 the Valencia Hills site. He has identified that physical  
8 stabilization of the site was not effective, and he  
9 identifies the area near Akins Avenue entrance is not fully  
10 stabilized. There are several gullies, and it's  
11 unprotected.

12 If you look at -- that's on the first page. On the  
13 additional -- on page 3 which is BMP recommendations,  
14 there's a No. 1 that states, "Fully stabilize area. Utilize  
15 other erosion control BMPs, PG, visqucon, or other erosion  
16 control blankets if hydroseed growth is not sufficient," and  
17 Section 1 shows the Seville Way entrance that goes onto  
18 Akin's Avenue.

19 MS. DRABANDT: I'm sorry. You said that's  
20 Section 1. Please tell us where you're looking at.

21 THE WITNESS: Sure. So I'm then referring to the  
22 last page of the inspection report which is a map of the  
23 site. And there is a 1 that is circled indicating, as the  
24 previous page stated, that that is an area that needs  
25 stabilization and protection from erosion control.

1           And it's not on the entrance itself, but slightly  
2           above the entrance. And it's an area that they graded.  
3           There's some stockpiles near there, but it wasn't an area  
4           that they were actively working based upon looking at  
5           various photos over the course of the inspections that were  
6           done by the City.

7           BY MS. BERESFORD:

8           Q     Did you know what they were doing in that area  
9           between January 1st and January 15?

10          A     I don't believe they were doing anything.

11          Q     Could they have been implementing additional BMPs  
12          in that area during that time?

13          MS. DRABANDT: Objection. Speculative.

14          THE WITNESS: I don't know. There's also a  
15          notation on page 3 under the "Recommendations, No. 4.  
16          Repair gullies and prevent concentrated flow to area."  
17          Gullies typically are a sign of concentrated flow of  
18          erosion, and so the location of the 4s on the map which is  
19          the last page show up on the graded pads.

20          The pads on Avalon Way -- on the west side of  
21          Avalon Way and the pads to the East of Orlando Drive that  
22          are indicated in the pads on Tangelos Place, those were  
23          later phases. And so I would see those as inactive areas at  
24          that time. The one that's to the east on Avalon Way that's  
25          indicated, to me, those were active at the time.

1 BY MS. BERESFORD:

2 Q And could they have been implementing BMPs in those  
3 locations?

4 MS. DRABANDT: Objection. Speculative.

5 THE WITNESS: I don't know.

6 BY MS. BERESFORD:

7 Q Okay. Let's talk about January 14.

8 A I still have one. There's another one. Sorry.

9 Q Sure.

10 A Number 5 states on the "Recommendation, repair and  
11 stabilize slope." So 5 is indicated on the last page map as  
12 being the slope along Tangelos Place, and those -- there and  
13 then towards the northeast entrance had been closed off.

14 So those slopes were set, and I don't believe those  
15 were due for any -- any work. And so that's why the  
16 inspector was suggesting to stabilize those also, and also  
17 do the repairs.

18 And then No. 6 is related to some slopes on an  
19 interior section of some housing pads, and it states, "Use  
20 the rows to control and stabilize exposed sidewalls.  
21 Consider methods other than hydroseeds, since there's  
22 evidence of failure." And I think they ended up using  
23 visqueen.

24 And then there's a notation for No. 7 which states,  
25 "Stabilize area of inactive for rain in forecast."

1 Q Does it identify which areas are active versus  
2 inactive -- and what I mean, active at that time. Well,  
3 I'll just restate.

4 Does it identify areas of inactive versus active?

5 A It does not. The area that they identified with  
6 No. 7 is at the end of Tangelos Place, and that was one of  
7 the last phases to be completed. So at that time I wouldn't  
8 expect that there would have been activity in that location.

9 Q Could they have been doing storm water BMPs in this  
10 area?

11 MS. DRABANDT: Objection. Speculative.

12 THE WITNESS: I don't know.

13 BY MS. BERESFORD:

14 Q I want to jump ahead and ask a question about;  
15 Violation No. 7 which is failure to apply linear sediment  
16 controls. And that talks about failure to apply sediment  
17 controls along the toe of the slope, the face of the slope,  
18 and at the grade breaks.

19 Does that sound familiar?

20 A Yes.

21 Q And in talking about some of the things that you  
22 were identifying on January 6th, I believe, you were talking  
23 about the slopes; is that correct?

24 A Yes.

25 Q So if you were applying a violation for an inactive

1 area for a slope and a violation for failure to apply liner  
2 sedimentary controls, is that two separate violations for  
3 the same area?

4 MS. DRABANDT: Objection. Calls for legal  
5 conclusion.

6 THE WITNESS: It may.

7 BY MS. BERESFORD:

8 Q How do you decide when to apply one versus two?

9 MS. DRABANDT: Objection. Calls for legal  
10 conclusion, and attorney-client privilege.

11 MS. BERESFORD: Are you directing him not to  
12 answer?

13 MS. DRABANDT: One moment.

14 MR. ROSENBAUM: Frank, you can answer to the extent  
15 that you don't disclose communications between you and your  
16 attorney on that issue.

17 THE WITNESS: Where I find that there's been a  
18 violation of the permit requirement, then I will allege a  
19 violation if I can support that with evidence.

20 BY MS. BERESFORD:

21 Q Do you do that in all instances that you allege  
22 both violations, or are there instances where you just  
23 allege one or the other?

24 A Could you rephrase that?

25 Q Yes. So here if you have allegations of failure to

1 implement BMPs on a slope, and you're saying that could be a  
2 violation for inactive areas and also a violation for linear  
3 sedimentary controls.

4 Are there instances where you will only allege one,  
5 or the other, or do you always allege both?

6 A What I would like to distinguish on this is that  
7 the previous violation that we were talking about was for  
8 erosion control. That was Violation No. 4.

9 This violation that we've now started talking  
10 about, Violation No. 7 is for sediment controls. And so  
11 those are two separate permit requirements, and the best  
12 management practice is for each of those requirements is  
13 different.

14 So the failure to put soil stabilization on an  
15 inactive area or soil cover is different than if a -- you  
16 have a slope, and it does not have some sort of sediment  
17 control best management practice to interrupt the flow  
18 coming down.

19 Q Okay. Let's talk about January 14. We're still on  
20 alleged Violation No. 4, Exhibit No. 25. The only thing I  
21 will ask you on this day is: Do you know if they were  
22 working on the site to install BMPs in any specific  
23 location?

24 A Based upon Exhibit No. 25 which is Tad Nakatani's  
25 inspection of January 14, 2015, of the Valencia subdivision



1 for the City of Lemon Grove, I can infer that there was some  
2 BMP work occurring at the site.

3 When looking at the deficiencies that are noted,  
4 some are ongoing, some are smaller it says. So I think it's  
5 reasonable to infer that there was some BMP work going on at  
6 the site to correct the deficiencies so they could ask the  
7 City to remove the Stop Work Notice.

8 **Q And can you identify where that work was occurring?**

9 A Again, it would be an inference, since I wasn't at  
10 the site during this inspection. But for instance on the  
11 first page under the heading "Geotextiles, Plastic Covers."  
12 It states, "Most sidewalls have been covered, but a couple  
13 in the north -- northern part of side lack protection."

14 And so I recall from the previous inspection report  
15 that they had talked about most of the sidewalls had issues,  
16 and so they were directed to make some repairs. So it  
17 sounds like -- again, it's an inference on my part -- I  
18 don't know for sure, but it seems like they -- they made  
19 some effort to repair those sidewalls.

20 **Q Well, what area would you deem inactive on this**  
21 **day?**

22 A The continuation of what we talked about on the  
23 previous exhibit. There on page 3 of the inspection report  
24 of the BMP recommendations, No. 1 talks about "Stabilize  
25 remaining small areas that lack full hydroseed or visqueen

1 cover." So that No. 1 correlates on the map which is the  
2 last page to, again, that section near just west of Seville  
3 way near the Akins Avenue entrance.

4 And, again, that area they graded, and I don't  
5 believe there was activity at that time, so I would say that  
6 was an active area. And then --

7 Q You know, before you continue I'm going to bring  
8 you back to January 6th where at No. 1 it says, "Fully  
9 stabilize area in that area," and then on January 14 it  
10 says, "Stabilize remaining small areas."

11 MS. DRABANDT: Can you please reference what  
12 exhibit you're looking at?

13 MS. BERESFORD: Sure. So the first one I went back  
14 to January 6th, and for Area No. 1, Mr. Nakatani's list it  
15 says, "Fully stabilize area."

16 MS. DRABANDT: Which exhibit number to the ACL?

17 MS. BERESFORD: 24.

18 MS. DRABANDT: Thank you.

19 BY MS. BERESFORD:

20 Q Do you see that?

21 A Yes.

22 Q And then if you go to Exhibit No. 25, Area No. 1,  
23 it says, "Stabilize remaining small areas that lack full  
24 hydroseed or visqueen cover," No. 1.

25 Does that sound like they've been working in that

1 area?

2 A It does sound like it.

3 Q What other areas would you deem inactive on January  
4 14?

5 A We had talked about the sidewalls, so the Notation  
6 on the Recommendations No. 2 talks about installing erosion  
7 controls on the remaining sidewalls, and that's indicated on  
8 the map on some housing pads on Tangelos Place.

9 Q Can we look at January 6, again? And I'm sorry,  
10 that is Exhibit 24.

11 Do you see how -- I'm looking on his numbered area  
12 for Exhibit 24 on January 6th. No. 6 says, "Use erosion  
13 controls to stabilize exposed sidewalls."

14 Do you see that?

15 A Yes.

16 Q And I see that there's a No. 6 on the map in two  
17 locations.

18 Do you see that?

19 A Yes.

20 Q And then looking at the report for January 14 on  
21 No. 25, it says, "Install erosion controls on remaining  
22 sidewalls."

23 A Yes.

24 Q Does that seem like they've been making progress on  
25 that?

1           A     It's in a different location, so the ones that had  
2 shown up previously are gone.

3           Q     So does that sound like the ones that they had  
4 worked on are gone?

5           A     That would be a reasonable inference.

6           Q     Any other inactive areas on January 14th?

7           A     I'm not sure if I -- if we talked about that, but  
8 No. 5 -- I'm looking at Exhibit 25 which is the January 14,  
9 2015, City of Lemon Grove inspection report. On page 3 for  
10 "Recommendations 5." It talks about "Stabilize area, if  
11 inactive or rain in forecast." Again, that's Section 5.

12                     On the map on the final page it's in the upper  
13 northwest corner of the site, and that site -- that part of  
14 the site was not active at that time for -- for work. And,  
15 again, they were under the Stop Work Notice, so I would  
16 assume that area was inactive.

17                     And also then it talks about No. 7 on the BMP  
18 recommendations page, it says, "Repair minor rails and  
19 protect against concentrated flows in the area." And that  
20 No. 7 correlates to some of the pads along the southern part  
21 of Avalon Way.

22                     And those were some of the first ones built and  
23 worked on, but the parkway strips or the areas along the --  
24 the streets would not have been, in my mind, active at that  
25 time. So those would have been area that's should have had

1 soil cover.

2 Q And do you know if they were doing any work to  
3 implement BMPs in those areas on January 14th?

4 MS. DRABANDT: Objection. Speculative.

5 THE WITNESS: I do not know.

6 BY MS. BERESFORD:

7 Q Okay. Jumping ahead to May 9, 10, 11, and 12.

8 Do you have any reports for those days?

9 A I do not have specific inspection reports for May  
10 9, 10, or 11, or 12.

11 Q Do you know if they were working in any of those  
12 areas -- were they working on the site on those days?

13 A I'd have to refer to my inspection notes, but, if I  
14 can recall, during that time period there were storm events.

15 And so, therefore, most of their efforts most  
16 likely would have been to address the BMP deficiencies.

17 Q Did you produce your inspection notes?

18 A I produced my inspection report.

19 Q Do you have separate notes that you take?

20 A No.

21 Q Okay. I'd like to refer you to Exhibit 18 which is  
22 the inspection report for May 8, and that's -- I'd like you  
23 to look at page 3 at the bottom, No. 2 says, "Several areas  
24 were observed to be inactive or could be scheduled to be  
25 inactive."

1           Did you identify in your report which areas those  
2       were?

3           A     I did not.

4           Q.    So how did you know they were inactive areas?

5           A     Based upon my visit of the site, based upon my  
6       knowledge of the activities at the site from my visit in  
7       March, I could see specifically when I look at -- again,  
8       Photograph No. 6 which is the future park area for the  
9       development, that that area has not changed substantially.  
10      It definitely has not been regraded and so, therefore, that  
11      area should have soil cover.

12          Q     Do you know if they were driving on that area?

13          A     I believe they were driving to some extent.  
14      There's a photograph. In the photograph there's some heavy  
15      equipment that is parked there, so, obviously, that had to  
16      be parked there, it traveled over at least the front part of  
17      this.

18          Q     Any other areas that you could identify as inactive  
19      on this day?

20          A     Looking at Photograph No. 4, that section to the --  
21      to the left of this page where you can see some of the  
22      stockpiles that are partially covered, that section there is  
23      the area that did not have activity going on it, and was  
24      left unprotected. That was an area that I recall as being  
25      inactive.

1 Q Were you -- were they driving in that area?

2 A No. It's not an area where there would be vehicles  
3 driving on it.

4 Q Did you ask for the construction schedule for the  
5 next two weeks?

6 A I did not.

7 Q Do you know how far this location is from Encanto  
8 Channel?

9 A This site is located right next to Encanto Channel.

10 Q What does that mean? Do you have an estimated  
11 distance?

12 A It's adjacent to Encanto Channel. The development  
13 site abuts Encanto Channel.

14 Q Is there one -- did you observe storm water flowing  
15 all through the side of where it's adjacent, or does it  
16 enter in distinct locations?

17 A I observed flows in Encanto Channel, and I observed  
18 the storm drain inlets on Akins Avenue that discharge  
19 directly into Encanto Channel.

20 Q And did you -- in preparing allegations for this  
21 ACL, did you determine there was a substantial threat to  
22 beneficial water use?

23 A I determined that there was a threat to beneficial  
24 uses from this site.

25 Q And what facts did you rely on for that

1 **determination?**

2 A Looking at the inspection reports from the City of  
3 Lemon Grove, looking at the regional board inspection  
4 reports, my first-hand observations of the condition of the  
5 site, and the way that the site was prepared for storm  
6 events, it's my opinion that the -- based on all of that,  
7 that this site was not in compliance with the Construction  
8 Storm Water Permit, and, therefore, there were threats of  
9 sediment discharges from the site. And I did observe  
10 sediment discharges from the site.

11 Q And that sediment discharge created a substantial  
12 threat to beneficial use? Did you make that determination?

13 A It poses a threat.

14 Q Are you the head of the enforcement unit?

15 A No.

16 Q Who is?

17 A Chiara Clemente.

18 Q Did you discuss this ACL with her?

19 A Yes.

20 Q In preparing it?

21 A Yes.

22 Q Have you seen this document before (indicating)?

23 A Yes.

24 Q When did you first see it?

25 A I don't know an exact date, but I would say I



1 probably saw it in March or April of 2015.

2 Q And what was your impression of that document?

3 MS. DRABANDT: Objection. Vague.

4 BY MS. BERESFORD:

5 Q Did you -- when you read this document, did you  
6 feel like they -- like San Altos was making an effort to  
7 come into compliance with the permit?

8 A I would say I had mixed feelings on that.

9 Q And why is that?

10 A Some of the responses in there seem to address the  
11 allegations of violations and the Notice of Violation issued  
12 by Wayne Chiu, but some of the responses, to me, seemed  
13 unresponsive or defensive.

14 Q Can you be more specific about what was  
15 unresponsive?

16 A I would need some time to look at the document  
17 further to be able to do that. It's been a while since I  
18 read the complete document. You had asked for what my  
19 feelings were, and that's what I recall my feelings.

20 Q No. I appreciate that. That's fine.

21 Have you read other reports that companies submit  
22 to demonstrate coming back into compliance?

23 A Yes.

24 Q Do you feel that many of them are defensive?

25 A It would be difficult for me to be able to say yes

1 or no.

2 Q Were your -- was your reaction to this report  
3 substantially different from how you feel when you read  
4 other similar reports?

5 A It was not substantially different.

6 Q We're going to go back to Notice of Violation No.  
7 4, and look at the allegations for September 15.  
8 I will ask you to look at Exhibit No. 22 to the ACL.

9 A Did you say 22?

10 Q Yes, I did.

11 Did you rely on this document for Notice of  
12 Violation No. 4 for September 15?

13 A Yes, I did.

14 Q Did you rely on any other evidence for that  
15 allegation?

16 A Not that I recall.

17 Q Can you identify the inactive areas for me that  
18 form the basis of Notice of Violation No. 4 for September  
19 15?

20 A In looking at Exhibit No. 22 which is Tad  
21 Nakatani's September 15, 2015, City of Lemon Grove  
22 inspection form of the San Altos-Valencia Hills site. If  
23 you look on the first page of that under "Physical  
24 Stabilization," it states, "Significant areas lack erosion  
25 control. Evidence of erosion throughout site. Effective:

1 Yes or no. No."

2 And when I look at the BMP Recommendations on page  
3 3, No. 1 states, "Utilize erosion controls on all disturbed  
4 areas prior to rain events or when they are inactive,  
5 whichever comes first."

6 And I note that on the map on page 4, that his one  
7 circle applies to a lot of the lots in the graded pads  
8 throughout the site. During this time, September 15, 2015,  
9 the areas that I would expect that were inactive would have  
10 been those along Valencia Court that have the one circled  
11 and those along Orlando Drive that have the one.

12 The ones that are circled along Tangelos Place, I  
13 would expect that that was an active area for that time of  
14 the development.

15 Q Do you know where they were doing construction on  
16 from September 15 to September 30?

17 A I believe it was along Tangelos Place.

18 Q Could they have been doing any other work in any  
19 other area of the site?

20 MS. DRABANDT: Objection. Speculative.

21 THE WITNESS: I don't know.

22 BY MS. BERESFORD:

23 Q Okay.

24 A I would also note No. 5 on that BMP Recommendation,  
25 states, "Clean sediment out of roadway and gutter." Again,

1 to me, that's indicative that there was a discharge of  
2 sediment from the site, at least onto the street. It does  
3 talk about on page 1 of the inspection report that there had  
4 been an inspection -- or had been a storm event.

5 Q Can you say with certainty whether that discharge  
6 came from active versus inactive areas?

7 A No.

8 Q Let's talk about Notice of violation No. 13.  
9 If you could read for the record, what alleged Violation No.  
10 13 is?

11 A On page 18 of the Technical Analysis for the ACL  
12 complaint, Violation No. 13 states,

13 "Failure to prevent discharge of concrete waste to  
14 the ground (15 days) pursuant to Section B.2.I in Attachment  
15 D to the Construction Storm Water Permit.

16 "Discharges are required to ensure the containment  
17 of concrete washout areas and other washout areas that may  
18 contain additional pollutants so there is no discharge into  
19 the underlying soil and onto the surrounding areas."

20 Q Is stucco that falls on the ground as part of the  
21 application process the same as concrete or concrete washout  
22 area?

23 A No.

24 Q If stucco that falls on the ground is removed prior  
25 to a rain event, is that a discharge to underlying soil?

1 A Yes.

2 Q Are underlying soils waters of the United States?

3 MS. DRABANDT: Objection. Calls for legal  
4 conclusion.

5 THE WITNESS: It may.

6 BY MS. BERESFORD:

7 Q How is that?

8 A Depends on the site characteristics.

9 Q Can you be more specific?

10 A If the geology is such that there's a high  
11 groundwater level, then it could be.

12 Q Do you know what the groundwater level at this site  
13 is?

14 A No.

15 Q Other than clean up the stucco, if stucco falls on  
16 the ground before a rain event, weather best management  
17 practice would be the best available technology for purposes  
18 of the construction general permit?

19 A I have seen on various sites where stucco  
20 contractors will lay down a fabric material or a plastic.  
21 So I've seen it where it's a plastic, and then on top of  
22 that a fabric material or a fabric material that is  
23 waterproof.

24 And it will catch the bulk of the stucco that falls  
25 off during the stucco application process. And, thereby,

1 they can pick it up, and they can then dump it into the  
2 concrete bins -- or construction, after it's dried, they can  
3 then dump it into construction waste bins. If it's still  
4 wet, they can -- they can dump it into a concrete washout.

5 Q Is it possible that stucco can fall on the soil  
6 even if somebody is using that type of process?

7 MS. DRABANDT: Objection. Speculative.

8 THE WITNESS: Yes, it's possible.

9 BY MS. BERESFORD:

10 Q And do you know if using the process you're just  
11 described, if that complies with OSHA?

12 A I do not know if that complies with OSHA.

13 Q Let's look at Exhibit No. 13, please, to the ACL.

14 A I have Exhibit No. 13.

15 Q Did you rely on this document for the allegation of  
16 the failure to discharge -- the failure to prevent the  
17 discharge of concrete waste to the ground for March 18?

18 A My technical analysis does not cite Exhibit No. 13  
19 in there. However, I believe it does cite Exhibit 14.  
20 I will say that Exhibit No. 13 does contain photographs that  
21 to me depict violations of Section B.2.I of Attachment D to  
22 the Construction Storm Water Permit.

23 Q And what would that be?

24 A In looking at the first page of photographs in the  
25 upper right-hand corner, there appears to be a discharge of

1 concrete waste to the ground. It looks like it may have  
2 come out of concrete washout.

3 There's another picture, I believe, of the same --  
4 the same exact site, different perspective on page 2 of the  
5 photographs in the lower left-hand corner. And, again, I  
6 can't tell if that's a concrete washout, the black  
7 structure.

8 It could be some drywall that's covered in plastic,  
9 I can't tell from the quality of this photograph, but I can  
10 tell that there was a flow of concrete waste or washout that  
11 flowed down that hillside.

12 **Q Do you know when that was cleaned up?**

13 A I do not. I also note on page 2 of Tad Nakatani's  
14 March 18, 2015, inspection report under the section that  
15 says, "Our concrete washout is properly installed and  
16 maintained with no evidence of discharges." There's  
17 description explanation that states "Concrete waste observed  
18 on outside ground outside of washouts. Effective: Yes or  
19 no. No."

20 On page 3 of his BMP Recommendations, No. 2, it  
21 says, "Clean up concrete waste observed at multiple  
22 locations and ensure that all employees use washouts  
23 properly." And that No. 3 is shown on the map that's  
24 provided on page 4 as being for the housing pads along  
25 Avalon Way on both sides.

1 Q I'm sorry. Could you repeat that last part again.  
2 The No. 3 for March 18?

3 A So on Exhibit No. 13, page 3, No. 2 states, "Clean  
4 up concrete waste observed at multiple locations and ensure  
5 that all employees use washouts properly."

6 On the following page is a map where No. 3 is  
7 indicated to show where those discharges occurred and  
8 he's --

9 Q I'm sorry. No. 2 or No. 3? That's what I'm  
10 getting confused about.

11 A I apologize. It's No. 2, and No. 2 is indicated  
12 along the housing pads along Avalon Way on the east side.

13 Q So do you know when any of that concrete discharge  
14 was cleaned up?

15 A I do not.

16 Q Okay. Let's look at Exhibit No. 16, please.

17 A I have Exhibit No. 16 in front of me.

18 Q And did you rely on this for your alleged Violation  
19 No. 13?

20 A Yes.

21 Q And what is the basis for that allegation?

22 A Exhibit No. 16 is an administrative citation  
23 Circled No. 4 for a \$1,000 issued by the City of Lemon Grove  
24 to Tim Anderson the project manager for the San Altos  
25 Place-Valencia Hills Development for illegal discharges of



1 cementous materials.

2 And attached to Exhibit No. 16 or attached to the  
3 citation is some photographs that were taken, and the  
4 photograph in the upper right-hand corner displays discharge  
5 of concrete waste to the ground.

6 Q Is there a concrete washout involved in that  
7 picture?

8 A No.

9 Q Do you know if that cementous waste identified in  
10 that photograph was identified on March 18?

11 A No.

12 Q No, you don't know? Or no, it wasn't identified?

13 A I do not know.

14 Q Could it be a different discharge than what was  
15 identified on March 18?

16 A I don't know.

17 Q What evidence do you have that cementous material  
18 was on the ground on March 19 through March 23rd?

19 A The evidence that I would have is that this  
20 discharge occurred after the developer received a citation  
21 from the City for that same type of activity. And so, in my  
22 opinion, it's reasonable to conclude that the developer or  
23 the subcontractors who were discharging concrete waste to  
24 the ground as a matter of practice during this time period,  
25 and so had this con- -- subcontractor or the contractor

1 changed its ways, then this follow-up inspection would not  
2 have discovered another discharge.

3 It was just a matter of days, different, in less  
4 than five days, or five days.

5 Q Let's go back to Exhibit No. 13.

6 How many pictures in that exhibit do you think show  
7 discharges of concrete waste to the ground?

8 A In the photographs themselves, I would say only  
9 one.

10 Q On March 18?

11 A Correct. However, I would note that on page 3 of  
12 the BMP Recommendations for No. 2 it says, "Concrete waste  
13 observed on multiple locations."

14 Q And how many pictures of discharges to ground are  
15 in Exhibit 16?

16 A One.

17 Q Do you know how many houses they were doing stucco  
18 work at during this period?

19 A I do not.

20 Q So on March 18 they have multiple locations. On  
21 March 23rd -- or March 24 they have one.

22 Is it possible that they improved, and just had one  
23 accident on March 24?

24 A I don't know.

25 Q Is it possible that they didn't have any on

1       **March 19?**

2           A     It's possible.

3           Q     Possible they didn't have any on March 20?

4           A     It's possible.

5           Q     Possible they didn't have any on March 21?

6           A     It's possible.

7           Q     Possible they didn't have any on March 22?

8           A     Possible.

9           Q     Let's look at Exhibit No. 17 -- and before we move  
10   on -- I'm sorry. So this one that was identified for March  
11   24, do you know when they cleaned that up?

12          A     I do not.

13          Q     Okay. Let's look at Exhibit No. 17.

14                Did you rely on this document for the allegation  
15   for Violation No. 13?

16          A     Yes.

17          Q     And what is the basis of that allegation?

18          A     Based upon Exhibit No. 17 which is the City of  
19   Lemon Grove's Administrative Citation for \$1,000 issued to  
20   Tim Anderson the project manager for the San Altos-Lemon  
21   Grove Project, Valencia Hills. It was for illegal  
22   discharges of cementous materials. The date of the  
23   violation is April 1, 2015, and it was issued by Tamara  
24   O'Neil on April 1, 2015.

25                Attached to it are photographs of various houses

1 being stuccoed and the waste stucco on the ground.

2 Q Does this appear to be a different discharge than  
3 what was identified on March 24?

4 A Yes.

5 Q What evidence do you have that there were  
6 discharges of cementous waste from March 25th to March 31st?

7 A Based upon the multiple discharges that were  
8 documented by the City over the time period, it is my belief  
9 that the contractor or subcontractors for the development  
10 continued practices that allowed for the discharge of  
11 cementous materials to the ground.

12 Q Looking at the pictures on April 1st, can you tell  
13 if that's one house or multiple houses?

14 A I cannot tell.

15 Q Could they have cleaned it up as they went along?

16 A I would say it's highly unlikely based upon my  
17 experiences from conducting construction storm water  
18 inspections over the years that the stucco contractors  
19 will -- will stucco, and they do not stop to pick up every  
20 little drop that they make.

21 Q Do you know who the stucco contractor was on this  
22 site?

23 A I do not.

24 Q Do you have any idea what their practices are?

25 A I do not.

1 Q Is it possible there was no discharge on March  
2 25th?

3 A No.

4 Q It's not possible?

5 A On March?

6 Q Is it possible there was no discharge of cementous  
7 waste on March 25th?

8 A It is possible.

9 Q Is it possible there was no discharge on March  
10 26th?

11 A It's possible.

12 Q How about March 27th?

13 A It's possible.

14 Q March 28th?

15 A It's possible.

16 Q March 29th?

17 A It's possible.

18 Q And March 30?

19 A It's possible.

20 Q Do you have any evidence that the discharges on  
21 March 18, 24 and April 1st harmed waters of the United  
22 States?

23 A Could you repeat the question?

24 Q Yes. Do you have any facts that the cementous  
25 waste that we saw on the ground on March 18, March 24, and

1 April 1st -- are there any facts that that waste actually  
2 left the site?

3 A No.

4 Q Any evidence that that waste actually harmed waters  
5 of the United States?

6 A No.

7 Q Do you know which site where you saw the plastic  
8 being used by the stucco contractors?

9 A I believe it was the Garden Community site.

10 Q Let's look at Exhibit No. 13 again which was for  
11 March 18, and I'm going to jump to Notice of Violation No.  
12 12.

13 Do you know what was stored in those drums?  
14 I'm sorry. Let's be more specific. I'm referring to  
15 Exhibit No. 13, and the last page has photographs, and it  
16 appears to be the same photograph on page No. 17 of the  
17 technical analysis for the ACL.

18 Do you know what was in those drums?

19 A I do not know.

20 Q Do you know if they were hazardous or nonhazardous?

21 A I do not know.

22 Q Do you know if the containers were watertight?

23 A I don't think they were.

24 Q And why do you say that?

25 A Well, looking at the photograph, it appears that

1 one of the lids is cracked open.

2 Q Can you show me where?

3 A I'm looking at the photograph in the technical  
4 analysis which is labeled Figure 12 on page 17. To me, the  
5 bucket on the front left appears to have a lid where the lip  
6 goes up, so, to me, it does not look like it was sealed.

7 Q I'm sorry. I don't know if it matters. I'm  
8 looking at Exhibit No. 16 which I have one page of  
9 photographs attached to that.

10 A Yes.

11 Q I do not see a picture of chemicals. You're saying  
12 that's from Exhibit No. 15 from the ACL.  
13 So that photograph comes from Exhibit No. 15?

14 A Yes.

15 Q Okay. My apologies.  
16 Do you know if there was any rain that occurred  
17 between March 18 and March 24?

18 A Not without looking at the precipitation data, no.

19 Q So do you have any evidence that this alleged  
20 violation caused a threat to beneficial use of Encanto  
21 Channel?

22 A Based on the information in front of me, no.

23 Q Okay.

24 MS. BERESFORD: Let's go off the record.

25 (Brief recess.)

1 MS. BERESFORD: Back on the record.

2 BY MS. BERESFORD:

3 Q Okay. Did you talk to Laurie Walsh when drafting  
4 this ACL?

5 A I'm not sure. The reason I'm not sure is I can't  
6 recall when she became supervisor of the storm water unit.  
7 There was a transition period between Eric Becker and her,  
8 so I don't recall.

9 Q Did she have any input on the ACL?

10 A I -- I would have to say very little, if any.

11 Q Okay. I would like you to, please, take a look at  
12 this document?

13 A Yes.

14 Q Can you please state for the record what it is?

15 A This is the November 21, 2013, California Regional  
16 Water Quality Control Board, San Diego Regions Issuance and  
17 Notice of Hearing of Complaint Administrative Civil  
18 Liability Complaint No. R9-2013- 0152 against the City of  
19 Encinitas and USS Cal Builders, Inc. For Violations of  
20 Orders Nos. 2009-0009-DWQ and R9-2007-0001, and Base and  
21 Plan Waste Discharge Prohibition 14.

22 Q Did you participate in preparing this complaint?

23 A I did not.

24 Q Are you familiar with it?

25 A I would say no.



1 Q Do you know who drafted it?

2 A I believe Rebecca Stewart drafted this.

3 Q Do you know how many days of alleged violations  
4 were involved in this complaint?

5 A I do not.

6 Q Do you know what type of contaminants or pollutants  
7 were at issue in this complaint?

8 A I'm not sure.

9 Q Do you know if they alleged multiple day violations  
10 as part of this complaint?

11 A I believe so.

12 Q Can you expand on that?

13 A I had very little to do with this. I didn't have  
14 anything to do with this complaint issuance or the  
15 development of it, so it would just be based upon what I  
16 recall of hearing what occurred with this. And I would say  
17 I just have very little knowledge about this complaint.

18 Q Okay. Are you familiar with the multiple-day  
19 violation reduction provision in the enforcement policy?

20 A Yes.

21 Q Do you know? Was that policy followed for the  
22 complaint against San Altos?

23 MS. DRABANDT: Objection. Vague.

24 THE WITNESS: I would say yes.

25 ///

1 BY MS. BERESFORD:

2 Q Can you explain to me how?

3 A The multiple-day violation component that's in the  
4 enforcement policy allows for long multiple-day violations  
5 to be collapsed, and there are certain requirements --  
6 prerequisites that apply to it. Without looking at the  
7 enforcement policy, I would not be able to recite them from  
8 memory.

9 Q Do you know which days in the alleged violation  
10 complaint against San Altos were it collapsed?

11 A I don't believe any days in the San Altos complaint  
12 were collapsed.

13 Q So I guess that's what I was trying to ask before.  
14 How come there were no -- how many come there was  
15 no reductions in the alleged multiple days of violation?

16 A There were not sufficient days where it pertained.  
17 The prerequisites I do not believe applied. And the  
18 evidence to support the days of violation were sufficient  
19 to -- to follow through.

20 Q Is this the first complaint in which you've been  
21 involved where their multiple days were not collapsed?

22 A No.

23 Q Can you identify others?

24 A Not off the top of my head, no.

25 Q Do you remember the last time a complaint for the

1 Construction General Permit did not collapse multiple days  
2 for violations?

3 A I do not recall.

4 Q When preparing administrative civil liability  
5 complaints, is it left to one individual to determine  
6 whether or not multiple days should be collapsed?

7 A No.

8 Q Can you tell me how that decision is reached?

9 MS. DRABANDT: May I add a caveat? Without  
10 disclosing any attorney-client privilege information.

11 MS. BERESFORD: Sure.

12 THE WITNESS: In my experience in developing  
13 administrative civil liability complaints, I work in  
14 coordination with my supervisor, with our technical staff,  
15 and our office of enforcement attorney. And we will have  
16 internal meetings where we will discuss the different  
17 aspects of a case and how to charge a case.

18 BY MS. BERESFORD:

19 Q In those discussions is there a discussion to say,  
20 you know, two years ago we issued a civil complaint for  
21 violations of the Construction General Permit to the City of  
22 Encinitas, do you compare that to see how you're being fair  
23 and consistent?

24 A We will discuss how past cases were prosecuted.

25 Q Was there discussion of the Encinitas ACL when

1 preparing this ACL?

2 MS. DRABANDT: Objection. Attorney-client  
3 privilege. I'm asking that he not answer.

4 BY MS. BERESFORD:

5 Q Who can answer for me why the Encinitas ACL  
6 collapsed multiple days, but this ACL did not?

7 A I was not involved, so I would not be able to  
8 comment on it. However, I believe Rebecca Stuart drafted  
9 the ACL complaint, and so that question would probably be  
10 best posed to her.

11 Q For the Encinitas?

12 A Correct.

13 Q Was she involved in this -- in the San Altos  
14 complaint?

15 A No.

16 Q Who was Rebecca's supervisor?

17 A Rebecca's supervisor is Chiara Clemente.

18 Q Would Ms. Clemente perhaps know the answer to the  
19 questions that I'm asking?

20 A She may.

21 Q Okay. Let's talk about Violation No. 11.

22 A And are you referring to Exhibit 2 of the  
23 deposition?

24 Q Yes.

25 A Okay. So I can hand you this. Do you want this

1 back?

2 Q Sure. Thank you.

3 A And you're referring to Violation No. 11 from the  
4 ACL complaint?

5 Q Yes.

6 A Violation No. 11 on page 17 of the Technical  
7 Analysis states, "The failure to contain and securely  
8 protect stockpile waste material from wind and rain." And  
9 it says, "(9 days) pursuant to Section B.2.F in Attachment D  
10 to the Construction Storm Water Permit.

11 "Dischargers are required to contain and securely  
12 protect stockpiled waste material from wind and rain at all  
13 times unless actively being used."

14 Q Did you determine that there was a substantial  
15 threat to the beneficial use of Encanto Creek from this  
16 alleged violation?

17 A I would say that there is a threat posed by this  
18 violation.

19 Q And was that a substantial threat?

20 A I -- I don't believe I characterized it as  
21 substantial.

22 Q Okay. I would like you to, please, look at  
23 Exhibit No. 24.

24 A I have Exhibit No. 24.

25 Q Did you rely on this document for the allegation

1 that a failure to contain and protect stockpile waste  
2 material for January 6th?

3 A Yes.

4 Q Did you rely on any other facts for that alleged  
5 violation?

6 A I don't believe so.

7 Q Can you identify for me the stockpiles that you are  
8 referring to for this alleged violation?

9 A I'm looking at Exhibit No. 24. On page 3 under  
10 "Construction BMP Recommendations," Circled No. 3 states,  
11 "Move or remove stockpiles that are adjacent to drain."

12 Page 2 of the inspection report under the heading  
13 of "Are There Any -- Are There Any Other Potential Storm  
14 Water Pollution Issues/Concerns," under "Description," it  
15 states "Stockpiles are too close to drain in northeast  
16 basin. Need to be moved or removed. Effective: No."  
17 In looking at page 4 which is a map indicating where No. 3  
18 applies to, it shows a circle on the basin that's to the  
19 entrance of the site on San Altos Place.

20 Q Does the report say whether those specific  
21 stockpiles are covered or uncovered?

22 A No.

23 Q Is there any other information in this report that  
24 you relied on for that allegation?

25 A I don't believe that it was in this one, but I

1 think I based these violations on two reports by the City of  
2 Lemon Grove.

3 Q So what basis do you have that stockpiles were not  
4 securely protected from wind and rain on January 6?

5 A In the Exhibit No. 24, none.

6 Q Let's look at Exhibit No. 25 for January 14.

7 A Yes, I have Exhibit No. 25.

8 Q And did you rely on this document for the  
9 allegations for Violation No. 11?

10 A Yes.

11 Q And what in this document did you rely on to state  
12 that stockpiles were not protected from wind and rain?

13 A There was a notation on page 2 of Exhibit No. 25  
14 where it states, "Are material stockpiles protected,  
15 covered, contained and located away from non-storm water  
16 discharges?" And it says, Wood/scrap pile should be removed  
17 or protected. Effective: No."

18 Below under the same section that was cited in the  
19 previous exhibit, "Are there any other storm water pollution  
20 issues/concerns?" And it states, "Stockpiles are located  
21 too close to drain in northeast basin. Remove or relocate  
22 them outside of --" I can't -- I can't read what the rest  
23 of that says. And it says, "Not effective."

24 Q The stockpiles next to the basin, is there any  
25 indication about whether they are covered or uncovered?

1           A     Well, if you look at the description up above, it  
2     says, "Wood/scrap pile should be removed or protected."  
3     So the fact that it says "should be protected," to me,  
4     indicates that it was not covered.

5           Q     "Should be removed," and that means to you not  
6     covered?

7           A     It says removed or protected.

8           Q     Oh, I misunderstood you.

9                     Do you think that the stockpile he's talking about  
10    up here is the same as the one below?

11          A     I do.

12          Q     Why do you think that?

13          A     I believe that -- that, although he's got it under  
14    the section "Materials/stockpiles," the fact that it says a  
15    scrap pile or scrap wood, it's -- to me, it's typical that  
16    wood is not covered, but it definitely should not be in a  
17    basin where there's exposure to the storm water, but in his  
18    estimation it said it should be moved or protected.

19          Q     I'm still trying to figure out why you think this  
20    is the same stockpile as the one down here?

21          A     Because if you look at page 3 under his BMP  
22    Recommendations, it says, "Remove the stockpiles that are  
23    near the drain or relocate them outside of the basin."  
24    There's no other description -- well, I guess on 6 remove or  
25    protect scrap pile.



1 Q If they were the same stockpile, wouldn't he have  
2 put all the information together?

3 A Let me see. I agree with you. They are separate  
4 stockpiles.

5 Q Does the Notice of Violation allege that stockpiled  
6 waste material is exposed from January 6th through January  
7 14?

8 A It does not note it. However, in looking at the  
9 two reports that -- it's reasonable to assume that they were  
10 in that position that the inspector deemed a deficiency  
11 because it shows up in both reports.

12 Q You're talking about the stockpiles near the basin?

13 A Correct.

14 Q So are those the stockpiles that you are focused on  
15 for Violation No. 11?

16 A Yes.

17 Q How do we know that they're waste stockpiles?

18 A I would say that I base that upon my confusion that  
19 it was the -- the scrap pile from the one above.

20 Q But you think they're different stockpiles at this  
21 point?

22 A At this point I agree with you. They are different  
23 stockpiles based upon the information in the map.

24 Q And do you have any evidence that waste stockpiles  
25 were not protected from wind and rain from January 6th

1 through January 13?

2 A I do not.

3 Q Let's look at Violation No. 10, please.

4 A I have it in front of me.

5 Q Can you please state what that is for the record?

6 A On page 16 of the "ACL Complaint Violation No. 10"  
7 is: "The failure to protect storm drain inlets (3 days)  
8 pursuant to Section E.6 Attachment D to the Construction  
9 Storm Water Permit.

10 "Dischargers shall ensure that all storm drain  
11 inlets, and perimeter controls. Control BMPs, and pollutant  
12 controls at entrances and exits (Example, tire washout  
13 locations) are maintained and protected from activities that  
14 reduce their effectiveness."

15 Q Let's look at Exhibit No. 4, please, to the ACL.

16 Did you rely on this report for the allegation of  
17 failure to protect storm drain inlets on December 8th?

18 A I did.

19 Q Did you rely on any other evidence for this for  
20 December 8?

21 A Not that I can recall.

22 Q Do you know if there was a discharge resulting from  
23 this alleged violation on December 8th?

24 A I do not.

25 Q Do you know if there was an alleged potential -- or

1 what was the alleged potential discharge volume?

2 A I do not know an alleged potential discharge  
3 volume.

4 Q Let's look at -- going back to May 8.

5 Do you know -- what did you rely on for the  
6 allegation that there was a failure to protect the storm  
7 drain inlets?

8 A I'm looking at Exhibit No. 18 from the ACL  
9 complaint, and you're discussing the May 8.

10 Q No. I'm sorry. The December 8. Yeah, I apologize  
11 if I said May 8.

12 A Okay. Could you repeat the question?

13 Q Yes. Exhibit No. 4. We're talking about December  
14 8, and I'm asking you what are the facts that form the basis  
15 of the alleged violation of failure to protect storm drain  
16 inlets on December 8?

17 A I replied -- I relied upon Gary Harper's December  
18 8, 2014, inspection report of the Valencia Hills site. On  
19 that inspection report it states, "Storm drain inlet  
20 protection." And it says, "Description Explanation. Inlet  
21 to be cleaned. Effect: No."

22 Q Do you know which storm drain inlet he was looking  
23 at?

24 A I do not.

25 Q Could he have been looking at an inlet that was not

1 connected to the MS4?

2 A I don't know.

3 Q Let's look at May 13 and Exhibit No. 19.

4 A I have Exhibit No. 19 in front of me.

5 Q Can you please identify for me what in that  
6 document states that there was failure to protect a storm  
7 drain on May 13th?

8 A I did not write this inspection report. I was at  
9 the site on May 13, 2015, and so I recall documenting  
10 through a photograph and visually seeing this figure that we  
11 have in -- the photograph in Figure 11 on page 16. So it  
12 was not included by Wayne in his inspection report.

13 MS. DRABANDT: May I, please, ask for an  
14 explanation of what photograph you're referring to?

15 THE WITNESS: So in the Technical Analysis to the  
16 ACL complaint on page 16, there's a photograph on -- that's  
17 entitled Figure 11. And it's a photograph I took during the  
18 inspection that Wayne Chiu conducted of the site. And so it  
19 documented the failure to protect a storm drain inlet at the  
20 site.

21 BY MS. BERESFORD:

22 Q So Mr. Chiu's report did not identify that as a  
23 violation on May 13th?

24 A It did not.

25 Q Do you know if that storm drain was -- or if

1 that -- the picture on page 16 of a storm drain inlet, do  
2 you know if that was connected to the MS4?

3 A I don't know.

4 Q If it was not connected to the MS4, is it still a  
5 violation of the Construction General Permit?

6 MS. DRABANDT: Objection. Calls for a legal  
7 conclusion.

8 THE WITNESS: In my opinion, it's a violation of  
9 the Construction Storm Water Permit.

10 BY MS. BERESFORD:

11 Q If it's not connected to the MS4?

12 A Right. And the reason being I have seen many sites  
13 where the developers will say a storm inlet is not  
14 connected, and there will be sediment inside -- which there  
15 was at the time that I took this photograph -- and they will  
16 not clean it out.

17 And so, therefore, as soon as there is a set of --  
18 a storm event and the site is connected, it will discharge  
19 the sediment.

20 Q So you're citing them for a violation that you  
21 think they're going to do, but have not done yet?

22 A It's --

23 MS. DRABANDT: Objection. Argumentative. Calls  
24 for legal conclusion.

25 THE WITNESS: I would say --

1 BY MS. BERESFORD:

2 Q Is it possible that they could have cleaned it out?  
3 Did you ever ask them if they did?

4 A Well, it wasn't protected at the time. And we were  
5 expecting storm events. So, in my mind, that is a violation  
6 of the Construction Storm Water Permit requirement.

7 Q Okay. Even if it's not connected to the MS4?

8 A Even if it's connected to the MS4.

9 Q Where is it going to go?

10 A If it's connected, it's going to go to Encanto  
11 Channel.

12 Q What if it's not connected?

13 A Then, it's going to stay on site.

14 Q And is that still a violation?

15 MS. DRABANDT: Objection. Calls for legal  
16 conclusion.

17 THE WITNESS: I would refer to the Construction  
18 Storm Water Permit.

19 BY MS. BERESFORD:

20 Q If you didn't notify them of this being a potential  
21 violation, how are they supposed to take corrective action  
22 before a storm water event?

23 A I provided the inspection report to the developer.

24 Q Your inspection report?

25 A Oh, I'm sorry, Wayne's did. And it did not include

1 that. I see what you're saying.

2 Q So how are they supposed to take corrective action  
3 if they're not notified that it's a potential violation?

4 A I believe that I had a conversation with -- I'd  
5 have to refer to my phone log notes -- with the project  
6 manager about the condition of the site and the violations  
7 and the need to get the site into compliance.

8 Q And did you specifically talk about this issue?

9 A I believe so.

10 Q And so -- and if they cleaned it out, is it still a  
11 violation if it doesn't leave the site?

12 MS. DRABANDT: Objection. Calls for legal  
13 conclusion.

14 THE WITNESS: Based on the requirements and the  
15 permit, the storm drain inlets are to be protected. It was  
16 not protected, so I'm finding that it was a violation.

17 BY MS. BERESFORD:

18 Q How do you define storm drain inlet?

19 A Well, I would say a storm drain inlet is a device  
20 such as the one that appears on Figure 11.

21 Q Can you be more specific? I mean, what is its  
22 function?

23 A Its function is to convey storm water runoff to the  
24 storm water conveyance system.

25 Q So if it doesn't convey storm water runoff to the

1 storm water runoff system, does that mean it's not a storm  
2 drain inlet?

3 A I still see it as a storm drain inlet. Again,  
4 based upon my experience, it's very common for there to be  
5 sediment in there, and it does not get cleaned out. So I  
6 still see that as a storm drain inlet.

7 Q But you don't know if in this instance whether it  
8 was cleaned out or not?

9 A I don't know if it was cleaned out, and I don't  
10 have any information to show that it wasn't connected to the  
11 storm water conveyance system.

12 Q Okay. Can I ask you to, please, look at  
13 Exhibit No. 20 to the ACL?

14 A I have it in front of me.

15 Q Can you look at Photograph No. 3 on page 6 of 8?

16 A Yes.

17 Q Can you please read the second to last sentence in  
18 the photograph caption?

19 A So on page 6 of 8 under Photograph No. 3, the  
20 second to last sentence says, "The downhill storm drain  
21 inlet is connected to an on-site sediment basin."

22 Q Do you know if that's the same storm drain inlet  
23 that's identified in your photograph on page 16 of the  
24 Technical Analysis?

25 A I do not know. Let me take -- well, let me read



1 this again before I state that.

2 No. It is not because the photograph identifies it  
3 as being on Avalon Way. The photograph that was taken in  
4 Figure 11 was on Tangelos Place.

5 Q Do you know if any of the storm drain inlets on the  
6 site that day were connected to the MS4?

7 A I do not know --

8 Q Okay.

9 A -- for certain.

10 Q Let's look at Exhibit No. 22 to the ACL, please?

11 A I have it in front of me.

12 Q Can you please identify -- did you rely on this  
13 document for the allegations that there was a failure to  
14 protect storm drain inlets on September 15?

15 A Yes, I did.

16 Q And what are the facts in that document to support  
17 that allegation?

18 A Exhibit No. 22 is the City of Lemon Grove  
19 inspection report from Tad Nakatani dated September 15,  
20 2015. In his inspection report on the first page under  
21 "Storm Drain Inlet Protection Sediment Trap Desalting Base  
22 and Gravel Bag Barrier." It states, for a description "No  
23 inlet protection on drain near southeast corner. Effective:  
24 No."

25 Q Do you know if there was a discharge resulting from

1       this alleged violation?

2           A     I do not.

3           Q     Do you know if there was an alleged potential  
4       discharge volume on September 15th?

5           A     I do not.

6           Q     Okay. Let's talk about Violation No. 5, please.

7                 Can you, please, state what alleged violation No. 5  
8       is, please?

9           A     Violation No. 5 appears on page 11 of the ACL  
10       Complaint Technical Analysis. It states, "Failure to  
11       implement perimeter sediment control BMPs (14 days) pursuant  
12       to Section E.1 and Attachment D to the Construction Storm  
13       Water Permit.

14                 "Dischargers are required to establish and maintain  
15       effective perimeter controls and stabilize all construction  
16       entrances and exits to sufficiently control erosion and  
17       sediment discharges from the site."

18          Q     I would like to talk about December 5 through 7.

19                 Do you have any evidence that there was a discharge  
20       from the site on December 5 through 7?

21          A     It is my assertion that the violations continued  
22       based upon looking at the inspection reports for December 4,  
23       2014, December 8, 2014. Based upon those, the violations on  
24       the 4th and the 8th that it was reasonable to conclude that  
25       those violations continued in those ensuing days.

1 Q Do you know what the weather was on December 5  
2 through 7?

3 A I believe that there were numerous storm events  
4 that we had in December. I don't recall exactly the dates  
5 of them, but I know that, again, we had storm events  
6 basically every week of December 2014.

7 Q Well, if -- let's take December 5, for example.  
8 If there's no rain on December 5, can there be a discharge  
9 from the site? Can there be sediment discharge from the  
10 site if there's no rain?

11 A If there's an on-storm water discharge there could  
12 be, but as far as, like, what you're stating, if there's not  
13 a storm event, then it would be unlikely that there would be  
14 a storm water runoff.

15 Q And is there still a violation of the permit for  
16 failure to implement perimeter sediment control BMPs, if  
17 there's no discharge from the site?

18 A Yes.

19 MS. DRABANDT: Objection. Calls for legal  
20 conclusion.

21 THE WITNESS: In my opinion yes, it is a violation.  
22 BY MS. BERESFORD:

23 Q And why is that?

24 A Based upon the permit requirements that we talked  
25 about -- establishing and maintaining effective perimeter

1 controls.

2 There were threats of storm events throughout this  
3 time period, and the site needed to have effective BMPs.  
4 They couldn't just expect that they would be there on the  
5 day of a storm event.

6 Q Does the permit require somebody to prepare for a  
7 storm event that's farther away than 48 hours?

8 A The permit has requirements for the implementation  
9 of effective best management practices throughout the year,  
10 and dependent upon certain conditions like forecast of a  
11 storm event, some other requirements are added in.

12 As far as this requirement, it's not dependent upon  
13 whether there's a storm event or not.

14 Q How do you know if something -- if the BMP is  
15 effective if there's no discharge?

16 A If there are gaps or holes in a perimeter control,  
17 then it is highly unlikely that it would be able to be  
18 effective such as the photograph that we have in Figure 6 on  
19 page 11 of the Technical Analysis.

20 Q Let's look at Exhibit 4 to the ACL.

21 A I have it in front of me.

22 Q Did you rely on this document for the allegation  
23 that there was failure to implement perimeter sediment  
24 control BMPs for December 8th?

25 A Yes, I did.

1 Q And what is the basis of that allegation?

2 A Looking at page 1 of Exhibit No. 4 which is an  
3 inspection report done by Gary Harper with the City of Lemon  
4 Grove on December 8, 2014, of the Valencia Hills  
5 construction site under "Perimeter Protection," it states  
6 "Effective: No."

7 Q Do you know if he was inspecting for compliance  
8 with the Construction General Permit?

9 A I do not --

10 MS. DRABANDT: Objection. Speculative.

11 THE WITNESS: I do not know.

12 BY MS. BERESFORD:

13 Q Is there any other evidence in the December 8  
14 report that you're relying on for this Notice of Violation  
15 on December 8?

16 A I don't think so.

17 Q So do you know what he cited for his -- what his  
18 concern was for December 8th?

19 A What I know is what is in his inspection report  
20 which says, "Perimeter Protection. Effective: Yes or no.  
21 No."

22 Q How do you know that that same issue occurred on  
23 December 7th?

24 I do not know that the same exact issue occurred on  
25 December 7th, but I do have the inspection report from

1 December 4th that states that there were inlet protection --  
2 or there was perimeter protection issues.

3 Q Let's look at December 4 Report, Exhibit No. 3 to  
4 the ACL.

5 Is this the report that you're relying on?

6 A Yes.

7 Q And what are the -- what's the basis for that  
8 allegation on Exhibit 4?

9 A Sure. Exhibit No. 3 is the Stop Work Notice issued  
10 by the City of Lemon Grove to Valencia Hills on December 4,  
11 2014.

12 Under the following deficiencies are noted  
13 stabilized construction entrance, and also runoff from the  
14 site which are indications that they were not able to  
15 contain sediment.

16 But most importantly, looking at the photographs,  
17 on page 1 of the photographs, if you look at the middle far  
18 right photograph, you can see where there are crumbling  
19 gravel bags, and it's dark. You can see where sediment  
20 overtopped that. There are other photographs that  
21 demonstrate sediment in the street which is indicative that  
22 perimeter control BMPs were not effective.

23 Looking at the photograph on page 2, upper  
24 right-hand corner, that is a construction entrance and it is  
25 lacking of some sort of perimeter control there.

1 Q Was there a discharge to the -- was there sediment  
2 in the street noted on December 8th?

3 A It does not. However, it does say -- there's a  
4 notation by Gary Harper on his inspection report on page 2  
5 that the street needs to be swept. So that would indicate  
6 to me that there was sediment in the street.

7 MS. DRABANDT: Which exhibit are you reading from?

8 THE WITNESS: I'm reading from Exhibit No. 4.

9 BY MS. BERESFORD:

10 Q On page 2 can you please identify for me where it  
11 says --

12 A Under "Tracking Controls" at the very top.  
13 Entrance being rebuilt street sweep.

14 Q What does that say? Street sweep this week?

15 A Uh-huh.

16 Q Could that be just a note that they are going to  
17 just sweep the street that week?

18 A It's possible.

19 Q So how do you know that some of the issues on  
20 December 4 were not -- did not reoccur on December 5, 6, and  
21 7?

22 A Based upon the information on Exhibit 4 on page 2  
23 at the bottom states, "Are there discharge locations free of  
24 significant erosion or sediment transport. Description:  
25 Still cleaning. Effective: No."

1 Q Could that be down the street and not related to  
2 the perimeter?

3 A I don't think so because it says, "Discharge  
4 location," so that is typically an entrance or exit area.

5 Q Have you talked to Mr. Harper about what location  
6 he meant there?

7 A I did not.

8 Q Are there any pictures of the discharge locations  
9 from December 8th?

10 A Not in the attached photos to Exhibit No. 4.

11 Q So there's no evidence of a discharge on 5, 6, or  
12 7; is that correct?

13 A That would be correct.

14 Q Let's talk about May 9 through 12, please.

15 Do you have any inspection reports from May 9  
16 through 12?

17 A I do not.

18 Do you know what the weather was like on May 10,  
19 11, 12?

20 A I don't recall.

21 Q How do you know that there was insufficient  
22 perimeter controls on May 9, 10, 11, and 12?

23 A I based that allegation upon the fact that there  
24 were inadequate perimeter sediment control BMPs on May 8th  
25 and also on May 13th. And so far I'm inferring that they



1 continued, that they weren't corrected and then were out of  
2 compliance by the 13th.

3 Q Do you know if what you saw on May 13th is the same  
4 as May 8th?

5 A Could you repeat the question?

6 Q Do you know if the issues that you identified on  
7 May 8th were the same as the issues you identified on May  
8 13th?

9 A They were not.

10 Q Is it possible that they could have corrected the  
11 things on May 8th, and then had something else occur on May  
12 13?

13 A It's possible.

14 Q Let's talk about alleged Violation No. 6.

15 A I'm ready.

16 Q Violation No. 6 alleges that the discharger  
17 violated Construction Storm Water Permit, Attachment D,  
18 Section E3 by failing to implement erosion control BMPs in  
19 active areas at the site on 22 days; is that correct?

20 A Yes.

21 Q Does the permit define what appropriate erosion  
22 control BMPs are for active areas?

23 A It does describe in parens after that section  
24 runoff control and soil stabilization in conjunction with  
25 sediment control BMPs.

1 Q But does it identify what the BMPs are?

2 A No, it does not.

3 Q Do you think that the CASQA Storm Water  
4 Construction BMP handbook provides the standard care that  
5 construction companies should follow when implementing  
6 erosion control BMPs?

7 A I would say that the BMP handbook provides options  
8 for developers to implement a variety of BMPs depending on  
9 site characteristics and conditions that may be more  
10 appropriate than others.

11 Q Do you think that all active areas have to be  
12 protected from erosion prior to the onset of rain?

13 MS. DRABANDT: Objection. Calls for a legal  
14 conclusion.

15 THE WITNESS: It is my opinion that to comply with  
16 this section of the permit that a construction site would  
17 need to implement runoff control and soil stabilization on  
18 active areas prior to a storm event.

19 BY MS. BERESFORD:

20 Q Let's look at December 1, so if you could, please,  
21 refer to Exhibit No. 2 --

22 A I have it.

23 Q -- of the ACL. Did you rely on this document for  
24 your allegations for this Notice of Violation for December  
25 1?

1 A Yes.

2 Q Did you rely on any other facts for this  
3 allegation?

4 A Looking at consequent or follow-up inspection  
5 reports that were done to see the state of the site --  
6 condition of the site, I'm sure I looked at rainfall data  
7 and any other information that was available about the site  
8 conditions.

9 Q Do you know if on December 1 there was a 50 percent  
10 or greater chance of rain in the next 48 hours?

11 A I do not know.

12 Q Can you describe to me the basis of the allegation  
13 for December 1?

14 A Looking at the photographs -- looking at page 1 of  
15 the photographs, in the lower right-hand side is a  
16 photograph of some areas that have been sprayed with an  
17 orange bonded fiber matrix.

18 In the center of the photograph it looks like there  
19 are some pipelines, and then there's a large area where  
20 there is no -- it's flat. It's graded, and there are no  
21 soil binders sprayed on it. I also do not see any runoff  
22 controls.

23 Q And it's common that soil binders should be placed  
24 on active areas?

25 A When there's the threat of a storm event, the

1 active areas -- the developer should take precautions to  
2 implement BMPs to stabilize the soil and to implement runoff  
3 control from those active areas.

4 Q Do you know where the runoff would go from this  
5 photograph?

6 A I believe it would flow towards the right of the  
7 photograph and then onto Tangelos Place.

8 Q And how do you know that they didn't have any  
9 runoff control?

10 A I don't see any in the picture. And then if you  
11 look on the upper left-hand picture, there's Tangelos Place  
12 there. That's the road. (Indicating) I don't see any  
13 runoff controls there either or soil stabilization.

14 Q But is it possible that there's some runoff control  
15 down the way that's not shown in the picture?

16 A I don't think that would be an appropriate  
17 application of the best management practice.

18 That's a -- that roadway -- there's slopes there,  
19 and so, therefore, failure to put some sort of runoff  
20 control would allow that sediment runoff -- the runoff to  
21 build up quite a bit of energy.

22 So if there was something down below, it would  
23 probably be overwhelmed and allow for a discharge.

24 Q But you don't know if they had something downstream  
25 or not?

1 A Based on these photographs from December 1st, I --  
2 I do not know.

3 Q They received a Stop Work Notice on December 2nd;  
4 is that right?

5 A Yes.

6 Q So what would be the active areas from December 2nd  
7 through January 6th?

8 A So the active areas would be the areas where they  
9 either plan to do construction -- which they may not have  
10 known how long it was going to take for them to come into  
11 compliance with the deficiencies that were noted in the Stop  
12 Work.

13 As I stated earlier, for most developers, they  
14 don't like being under a Stop Work Notice because they can't  
15 make progress on their development. So, therefore, they  
16 would want to push forward. So it's my assumption that they  
17 would have attempted to cure the deficiencies in their BMPs  
18 so they could start work as soon as possible.

19 Q I'm sorry. I thought earlier when we were talking  
20 about inactive areas, you were indicating to me that  
21 everywhere had to be an inactive area because they were  
22 under a Stop Work Notice.

23 Did I misunderstand?

24 A Perhaps.

25 Q Perhaps I misunderstood? Or perhaps that's what

1     you were saying?

2           A     Perhaps you misunderstood.

3           Q     Okay. So, wow, I'm sorry if I misunderstood. So  
4     when you were talking about the areas of active versus  
5     inactive, there could have been active areas going on in  
6     those days?

7           A     If you look at the definition in the permit, it  
8     talks about an area that is no longer scheduled to be worked  
9     on, or hasn't been worked on in the last 14 days, I believe.  
10    I'd have to refer to the permit, but I would refer to that  
11    definition.

12          Q     So as an -- even if someone is under a Stop Work  
13    Notice, and they were scheduled to work on that area within  
14    the next 14 days, would that still make that area active?

15          A     Yes.

16          Q     So did you ever discuss with anyone what the  
17    schedule of active areas were to be for the month of  
18    December?

19          A     No.

20          Q     Did you ever discuss with anyone what the areas of  
21    active construction was supposed to be for the month of  
22    January?

23          A     No.

24          Q     Are you aware that when Gary Harper was inspecting  
25    the site and identifying areas as inactive versus active,

1 that his definition depended on whether they were going to  
2 work there in 10 days?

3 A I was not aware of that until the depositions.

4 Q And were you aware that when Mr. Nakatani  
5 identified the areas as active versus inactive, his  
6 definition depended on whether they were going to work there  
7 in the next 10 days?

8 A No until the depositions.

9 Q So is it possible that areas that you identified  
10 as -- is it possible that areas that they identified as  
11 inactive were potentially active for purposes of the permit  
12 because they were scheduled to have work on days 11, 12, 13,  
13 or 14?

14 A It's possible.

15 Q Okay.

16 A Linda, could we take a break?

17 Q Absolutely.

18 MS. BERESFORD: Let's go off the record.

19 (Recess.)

20 MS. BERESFORD: Back on the record.

21 BY MS. BERESFORD:

22 Q Okay. Going back to the CASQA handbook, does this  
23 look familiar to you?

24 A Yes, I'm familiar with this.

25 MS. BERESFORD: What exhibit number are we on?

1 THE REPORTER: Five.

2 MS. BERESFORD: Can we, please mark this as  
3 Exhibit 5?

4 (Exhibit No. 5 marked.)

5 BY MS. BERESFORD:

6 Q Can you please state what this is?

7 A This appears to be Section 3 from the Construction  
8 Storm Water BMP handbook that's produced by CASQA.

9 Q And do you see halfway down, the second paragraph  
10 says "All inactive soil-disturbed areas on the project site  
11 and most active areas prior to the onset of rain must be  
12 protected from erosion."

13 Do you see that sentence?

14 A Yes.

15 Q So does that mean that some active areas prior to  
16 the onset of rain might not be protected from erosion?

17 A Well, in the way you've provided to me here, that  
18 appears to be the case on this statement.

19 Q Do you know if the permit defines the term "prior  
20 to the onset of rain"?

21 A I'd have to look at the permit.

22 Q And do you know if the manual defines that term?

23 A I do not.

24 Q Okay. Is it possible for an area on a construction  
25 site to be both active and inactive at the same time?



1 A I don't know. I hadn't thought about it.

2 Q Can we look, please, at Exhibit No. 2 --

3 A Yes. I have Exhibit No. 2.

4 Q -- to the ACL. And I'd like to look at the first  
5 page of photographs, which are date stamped December 1. And  
6 two of the photographs, one in the upper left-hand corner  
7 and one in the lower right-hand corner are time stamped as  
8 10:44 a.m.

9 Do you see that?

10 A Yes, I see that.

11 Q Are these two locations close to each other?

12 A I believe they are close to each other.

13 Q And can you describe how where they are in  
14 relationship to each other?

15 A I believe that the photograph on the lower  
16 right-hand side is slightly down the hill on Tangelos Place  
17 from the photograph in the upper left.

18 Q Can you describe for me why the photograph in the  
19 upper left is considered inactive but the photograph in the  
20 lower right is considered active?

21 A So if you recall when I talked about the photo in  
22 the upper left, that the areas where -- it might be easier  
23 for me to point to you -- but the areas here (indicating)  
24 and along here, I described as being inactive, and I was  
25 making the comment that this area here which is Tangelos

1 Place is a roadway, and that it had been graded and was not  
2 changing significantly -- was not planned or scheduled to be  
3 regraded for many months as far as with pavement and  
4 utilities to be put in.

5 And so my comment was that I deemed this area  
6 (indicating) to be inactive because the only thing that was  
7 occurring on there was some traffic, and it -- very little  
8 because they ended up closing the northeast entrance/exit  
9 very shortly after this time period. So even less traffic  
10 was going on there, and so my comment was even though this  
11 is a graded roadway, and there's some traffic, it was my  
12 opinion that there should also be some soil stabilization on  
13 there. A soil binder could be sprayed on there. This area  
14 along here (indicating).

15 This area has some traffic (indicating), looks like  
16 they have some vehicles parked there, but again it's -- it's  
17 not scheduled to be regraded.

18 Q If somebody is using a location -- a graded area as  
19 a road, just as a road, and the road has some slopes on it,  
20 are the slopes on the road active or inactive?

21 A If the road is graded, and there's no plan to do  
22 any other land disturbance to it, it's just being used as a  
23 dirt road, then I would say it's inactive.

24 Q Okay. And I'm sorry if you already explained this.  
25 Forgive me.

1           **Can you, please, describe for me what characterizes**  
2           **this photograph in the lower right-hand corner as active?**

3           A     Well, I characterize that area as active was  
4           because I see there were some pipes that were laid down  
5           there, and it looks like there some vehicles did some  
6           turning around. And so since there's some materials placed  
7           there, that perhaps that was an area that was going to get  
8           more traffic than what I would expect in some of the other  
9           areas.

10          And so, therefore, they would also be -- it's a  
11          housing pad, so I know at another point they will be  
12          doing -- pouring concrete, digging utilities, that sort of  
13          thing. And that's -- that phase, that area was due to be  
14          worked fairly soon, if I can recall correctly.

15          **Q     How do you know? Like, what's your recollection**  
16          **based on?**

17          A     Based on my discussions with the site  
18          superintendent at later times as far as the sequencing of  
19          the phases for the development.

20          **Q     And do you know when that conversation occurred?**

21          A     I believe it occurred sometime in the May of 2015  
22          on-site. It may have also occurred on March of 2015 when I  
23          was on-site.

24          **Q     Did you inspect the site on March 27th?**

25          A     I was -- I believe I was on the site. Wayne Chiu

1 was the lead on that, so I was there. I observed the  
2 conditions at the time, but I did not produce an inspection  
3 report.

4 Q Do you know if Mr. Chiu produced an inspection  
5 report?

6 A I believe -- I don't believe an inspection report  
7 was created for that.

8 Q Why not?

9 A If I can recall, that was a meeting in which Wayne  
10 was discussing -- Wayne Chiu was discussing with the  
11 developer the potential for enforcement, and it was also a  
12 chance to get the -- the developer, the subcontractors, and  
13 some of the City of Lemon Grove staff together to make sure  
14 that everybody was on the same page when it came to  
15 protecting the site from sediment and runoff.

16 Q Do you recall what the general conclusion of that  
17 inspection was?

18 A I remembered that I was disappointed with the site  
19 conditions, that the developer was planning to use -- what I  
20 would say -- some unorthodox BMPs on the site, and was also  
21 thinking that the rainy season was over, and that there  
22 weren't going to be any more storm events, and so that they  
23 felt they were in the clear.

24 Q Do you recall Mr. Chiu's conclusions after that  
25 inspection were?

1 A I don't recall.

2 Q Do you -- would you be surprised to hear that in  
3 his May 13 inspection, he found that the violations of  
4 2015-0153 had been largely addressed?

5 A It wouldn't surprise me because given that time of  
6 the year and given the site conditions of them not expecting  
7 anymore storm events, that there was -- their approach was a  
8 little different as far as what their expectations on the  
9 site were.

10 And I think many developers are still under the  
11 false impression of the previous permit that really kind of  
12 placed an emphasis on there being a wet season and a dry  
13 season. And this version of the Construction Storm Water  
14 Permit has abandoned that approach and being prepared for  
15 storm events through the entire year, or being on the  
16 lookout such that when one approaches such as what happened  
17 over this summer where we had storm events during the  
18 summer, although it's not typical for this area happened.  
19 And it's more typical for something like an El Nino year.

20 Q But Mr. Chiu found that the violations from the NOV  
21 in December 2015 were largely addressed; is that correct?

22 A If that's what his report said, then that's what it  
23 says. I still recall that I had some concerns with the  
24 site, and I believe Wayne did too and we talked with the  
25 site superintendent about our concerns. And it was our

1 understanding that they would address those concerns.

2 Q Can you please take a look at that?

3 A (Witness complies.)

4 Q Have you seen that before?

5 A I don't recall looking at this specifically, but it  
6 appears to be Section 5 which is a glossary and list of  
7 acronyms to the California Storm Water BMP handbook for  
8 construction activity produced by CASQA.

9 Q And can you read the definition of active areas of  
10 construction?

11 A They define active areas of construction as "All  
12 areas undergoing land surface disturbance activities related  
13 to the project including but not limited to project staging  
14 areas, immediate access areas, and storage areas."

15 Q How would you define land surface -- land -- land  
16 surface disturbance activities?

17 A I'd like to look at the Construction Storm Water  
18 Permit, but off the top of my head, I would say land surface  
19 disturbance activities are those that are related to, say,  
20 grading. Could be grubbing, cleaning a site. That sort of  
21 activities. Digging. Activities related to the disturbance  
22 of the soil.

23 Q And driving over the soil, is that a land surface  
24 disturbance activity?

25 A I don't think that it is typically. I will say

1 that in some aspects if it's a highly active area, meaning,  
2 it's like an entrance or exit, then it would be an active  
3 area. But if it's like on this case where it's Tangelos  
4 Place where it's on the upper end, and they closed off that  
5 entrance, and there is no further traffic going through  
6 there, then no, I don't see that as being a soil  
7 disturbance.

8 Q Do you know when they closed that entrance and  
9 exit?

10 A I don't recall, but I remember it was in one of the  
11 exhibits that we -- we looked at today.

12 Q Okay.

13 A I would just also add that I don't know how this  
14 definition compares to the definition in the Construction  
15 Storm Water Permit. I mean, this is a handbook that's  
16 prepared by somebody other than the State Water Resources  
17 Control Board so their definitions may not be the same. I'd  
18 have to look at the permit to be able to tell you if they  
19 are the same.

20 Q Well, here's the glossary for the permit. You can  
21 take a look at that.

22 A The first part of it appears to be the same.

23 Q The first part of the definition of --

24 A The definition that's in the CASQA BMP handbook  
25 appears to be a part of -- a portion of the one that appears

1 in the Construction Storm Water Permit.

2 Q I'd like you to take a look at this page.

3 Can you, please, state what that is?

4 MS. DRABANDT: I'm sorry. May I have a copy?

5 MS. BERESFORD: I only have one at this point.

6 THE WITNESS: I believe it is, again, from the  
7 Construction Storm Water BMP handbook by CASQA, and it talks  
8 about its technical advisory consultant team, and some other  
9 consultants associated with it, I believe.

10 BY MS. BERESFORD:

11 Q Are members from the State Water Resources Control  
12 Board on the technical advisory team for that handbook?

13 A It appears to be an Eric Burnsten. I'm not  
14 familiar with him, but it does say that he's with the State  
15 Water Resources Control Board.

16 Q And that he's on the technical advisory committee?

17 A Yes.

18 Q Can I have you take a look at this page?

19 A It says acknowledgements at the top, and it  
20 purports to be from the "Storm Water BMP Handbook for  
21 Construction" that's produced CASQA.

22 Q And are there members from the State Water  
23 Resources Control Board on the hearing committee?

24 A Yes.

25 Q And just to be clear for the record, I will give



1 this page back to you for the technical advisory committee.  
2 You identified one gentleman from the State Water Resources  
3 Control Board on the technical advisory committee, but are  
4 there, in fact, three people from the State Water Board on  
5 the technical advisory committee?

6 A At the bottom there it does say State Water  
7 Resource Control Board, and it lists three people, yes.

8 Q So on that basis would you say that the State Water  
9 Board had input on this handbook?

10 MS. DRABANDT: Objection. Speculative.

11 THE WITNESS: I don't know.

12 BY MS. BERESFORD:

13 Q So they were on the technical advisory committee  
14 and the hearing committee, but you don't know if they had  
15 input?

16 A I don't know.

17 MS. DRABANDT: Objection. Beyond the witness's  
18 scope of knowledge.

19 BY MS. BERESFORD:

20 Q Can you take a look at that page?

21 A At the top it says "2011 Handbook Portal Update iv,  
22 and it's the "July 2012 California Storm Water BMP Handbook  
23 for Construction" produced by CASQA.

24 Q Is somebody from the State Water Research and  
25 Control Board on the review -- one of the technical

1 reviewers?

2 A Yes.

3 Q Okay. Let's go back to Notice of Violation No. 6.

4 A Okay.

5 Q And let's look at Exhibit No. 4 which is  
6 December 8.

7 A Okay. I have Exhibit No. 4 in front of me.

8 Q Did you rely on this document for alleged Violation  
9 No. 6 "Failure to Input Erosion Control BMPs in Active Areas  
10 for December 8"?

11 A Yes, I did.

12 Q And can you tell me the facts in there that you  
13 relied on for that allegation?

14 A So I relied upon the photograph in the bottom  
15 left -- actually, excuse me -- in the middle left where it  
16 looks like there are some grading sticks, and some pipe, and  
17 some trenching occurring.

18 Q And what was the lack of erosion control in this  
19 photograph?

20 A I'd have to look at a weather report, but I would  
21 say that there should have been some sort of soil  
22 stabilization and runoff controls from the site, or from  
23 this area, especially with there being some of the trenching  
24 and other things.

25 Q And what type of soil stabilization should they

1 have had there? And let's assume -- do you know whether or  
2 not on December 8th there was a greater than 50 percent  
3 chance of rain within the next 48 hours?

4 A I don't recall.

5 Q Let's assume that there was not a chance of rain  
6 within the next 48 hours on December 8th.

7 What erosion controls should they have implemented  
8 in an active area?

9 A They should have BMPs available to install or use  
10 on the site. I think that would be appropriate.

11 Q Do you know if they have those BMPs available?

12 A Based upon this inspection report, I do not know.

13 Q Is there anything else that forms the basis of your  
14 alleged violation for December 8?

15 A Again, I know I was looking at precipitation  
16 reports for the time period that may have influenced my  
17 decision, and also looking at the other -- other inspection  
18 reports that occurred during this time period.

19 Q So can you say anything specific about  
20 December 8th?

21 A That I made the allegation that they had a lack of  
22 erosion controls in that active area.

23 Q But can you tell me why?

24 A I believe there was a storm event, but I would have  
25 to look at the weather reports to see.

1 Q Okay. Let's talk about December 5, 6, and 7. What  
2 was the basis of your allegations for December 5, 6, and 7?

3 A Again, looking at the inspection report for --  
4 let's see here. So looking at the information from the  
5 December 2nd, December 4th, and December 8th inspection  
6 reports that there was a -- consistent deficiencies for  
7 erosion control, and so, therefore, I'm asserting that those  
8 violations carried through the time period, even though  
9 there were not inspection reports for those days.

10 Q And would that matter whether or not a storm was  
11 expected in the next 48 hours?

12 A It may.

13 Q So let's assume there was a storm, and it ended on  
14 December 4, and starting on December 5 there was no rain  
15 expected for at least the next five days.

16 What can you tell me what lack of erosion controls  
17 in active areas they did not have on December 5, 6, and 7?

18 A I don't think I would allege that then.

19 Q Did you provide your weather reports that you  
20 relied on as part of your technical report?

21 A I did not.

22 Q Did you provide that information in the documents  
23 that you produced to us today?

24 A I did not.

25 Q Do you have that information somewhere?

1 A I obtained it online through a website.

2 Q Did you record it, or, you know, save the webpage  
3 or make a note of it, what the webpage was that you got it  
4 from? I'll stop asking questions.

5 A Could you go ahead and rephrase it, yeah?

6 Q So you obtained the information about the weather  
7 reports online.

8 Did you do that at the time that you were drafting  
9 the ACL?

10 A I believe so.

11 Q Did you make a note of it somewhere what website  
12 you looked at?

13 A I believe that I saved a PDF of it.

14 Q But you did not produce that PDF today?

15 A I did not.

16 Q Can we get that, please? I think that would be  
17 responsive. Is that something that can be reproduced?

18 A I think so.

19 Q Okay. Can we, please, look at Exhibit No. 24?

20 A I have it in front of me.

21 Q Did you rely on this document for your allegations  
22 for January 6 for this Notice of Violation No. 6?

23 A Yes, I believe I did.

24 Q Can you, please, identify for me the basis of the  
25 lack of erosion controls for active areas on January 6?

1           A     I believe I relied upon page 1, "Physical  
2     Stabilization," where it talked about there being  
3     unprotected areas. "Was it effective? No."  
4     Also -- I believe, also, if you look at -- if you look at  
5     No. 7 on the BMP Recommendations, I know it -- I'm unsure  
6     which ones I used for the inactive and which ones I used for  
7     the active.

8           I believe in my previous testimony I talked about  
9     all of those as being for the inactive areas. So based on  
10    this exhibit, I'm unsure.

11          Q     Going back to the first page where you talked about  
12    physical stabilization --

13          A     Yes.

14          Q     -- and the comment says, "Area near Akins entrance  
15    not fully stabilized."

16          A     I believe that is the one I cited for the inactive  
17    area, so I would not then cite that again for the active  
18    area.

19          Q     For the sake of argument, if there's an area -- an  
20    active area, and an inspector says it's not fully  
21    stabilized, and there's no rain in the forecast, is that a  
22    violation of the permit for lack of erosion control BMPs?

23                MS. DRABANDT: Objection. Calls for legal  
24    conclusion.

25                THE WITNESS: I would say no.

1 BY MS. BERESFORD:

2 Q Let's go to Exhibit No. 15, please, and that, I  
3 believe, is a report from March 24.

4 A Yes.

5 Q What is the basis of your allegation for March  
6 23rd?

7 A Included in this inspection report in Exhibit 15  
8 are photographs that were taken on March 24th and March  
9 23rd. If you look at the last page of the photographs, I  
10 had a text box inserted that says, "Lack of erosion controls  
11 in inactive areas," and it shows a photograph from March 23,  
12 2015.

13 Q And can you tell me the basis of the allegation  
14 that there's a lack of erosion control in that area?

15 A I would have to say that I -- I would have probably  
16 looked at the precipitation to see if there was a storm  
17 event forecast or not.

18 Q If there was no storm forecasted, do you still  
19 think there would have been a violation on that day?

20 MS. DRABANDT: Objection. Calls for legal  
21 conclusion.

22 THE WITNESS: I don't know.

23 BY MS. BERESFORD:

24 Q And then how about March 24?

25 A Again, I would state that there -- I believe there

1 was a storm event that was coming, and that the active areas  
2 such as the ones described on page 4 on the left-hand column  
3 would have needed some sort of soil stabilization runoff  
4 control.

5 Q Can you identify the picture for me, please?

6 A The 4th page of photographs, the entire left-hand  
7 column.

8 Q Would your opinion change if there was no storm  
9 forecasted?

10 A It may.

11 Q And what evidence do you have of lack of erosion  
12 control for May 10, 11, and 12?

13 A Based upon the fact that when we inspected the site  
14 on the 13th, that there were problems, and the storm events  
15 were predicted.

16 Q If the storm events were not predicted on 10, 11,  
17 12 would that change your opinion?

18 A It may.

19 Q Do you have any inspection reports from those days?

20 A I do not believe so.

21 Q Okay.

22 MS. DRABANDT: Can we please have a time check?

23 THE WITNESS: I'd actually like a break.

24 MS. BERESFORD: Sure. Let's go off the record.

25 (Recess.)



1 MS. BERESFORD: Back on the record.

2 BY MS. BERESFORD:

3 Q Okay. We are continuing to discuss Notice of  
4 Violation No. 6. I would like you to, please, review  
5 Exhibit No. 22 to the ACL.

6 A I have Exhibit No. 22 in front of me.

7 Q Can you, please, identify for me the active areas  
8 that were the subject of this alleged violation on September  
9 15?

10 A So Exhibit No. 22 is Tad Nakatani's inspection  
11 report for the City of Lemon Grove of the San Altos-Lemon  
12 Grove, Valencia construction site for September 15, 2015.

13 I relied upon the statement that -- under "Physical  
14 Stabilization," on the first page that there were  
15 "significant areas lack of erosion control. Evidence of  
16 erosion throughout site. Effective: Yes or no. No."  
17 Furthermore, there's a notation that there's some sediment  
18 in road and gutter near southeast corner on page 2 under the  
19 heading "Discharge Locations." "Effective: Yes or no?  
20 No."

21 And notice there's a notation on page 3 the BMP  
22 Recommendations No. 5, "Clean Sediment out of roadways and  
23 gutter." And it also on No. 7, "Clean sediment out of  
24 retention basins, significant accumulation, especially by  
25 inlets."

1           What I note on that is that we've been talking  
2 about erosion control BMPs in active areas, and the permit  
3 talks about implement appropriate erosion control BMPs, and  
4 it talks runoff control and soil stabilization in  
5 conjunction sediment control BMPs for areas under active  
6 construction.

7           And you've been asking me about whether there was a  
8 storm event or not, and I have to admit that at this late  
9 time of the evening, I am -- I am tired, but a thought came  
10 to my mind while I was on break thinking about this. Is  
11 that regardless of whether there's a storm event, the permit  
12 does talk about that there be the implementation of  
13 appropriate erosion control BMPs on active areas.

14           And noting in this inspection report the amount of  
15 sediment that is in the bio-retention basins in the streets  
16 and gutters, that there was not appropriate erosion control  
17 BMPs on the site.

18           Because had there been, then there would not have  
19 been the notations, I believe, by the inspectors that there  
20 was significant areas lacking erosion control, and that  
21 there would not have been so much sediment in the streets,  
22 and gutters, and in the bio-retention basins.

23           **Q     How do you know that the areas that he was talking**  
24 **about -- significant areas like erosion control, how do you**  
25 **know whether those were active or inactive areas?**

1       A     Well, one, he identified approximately 60 to 70  
2 percent of the site. And two, is the areas that I see noted  
3 are areas that were phases that were either being completed  
4 or just being started.

5       Q     Which areas are you saying he's marked as -- you  
6 said 60 percent of the site of as --

7       A     Yeah. So I'm referring to No. 1 talks about  
8 utilizing erosion controls in on the map on the next page,  
9 it shows all of the housing lots on the north side of  
10 Tangelos Place -- on the side of Tangelos Place, those along  
11 Orlando Drive, and on the east side of Valencia Court, and  
12 then on the south side of Orlando Drive abutting or above  
13 the park -- the future park. Those are all the last phases  
14 to be developed.

15       I'm not surprised that the other -- Avalon Way had  
16 any notation because those would have been built out and  
17 people would have been in them by now.

18       Q     So how do we know that they were working within two  
19 weeks of that entire area?

20       A     I would say based upon the information that I have  
21 of the site and based upon the information that's provided  
22 in this report, that's it's a reasonable assumption that I'm  
23 making.

24       Q     But did you talk to anybody about where they were  
25 actually working on September 15th?

1 A No.

2 Q And do you know where they were intending to be  
3 working for the next 14 days?

4 A No. I would say that in my conversations in May,  
5 and then -- I'm trying to think if I was on the site more  
6 recently than that -- I think when I met Chiu, Wayne out at  
7 the site, and we talked about scheduling that's when I got  
8 the most recent information about the phasing of the  
9 development (indicating).

10 Q Well, that's a pretty big area. I mean, is it  
11 possible that they're working on all of it?

12 A No. But I think it's reasonable to infer that some  
13 of that 60 to 70 percent was under active construction.

14 Q And how do we know -- I mean, is he -- do you read  
15 this report to say that there is lack of erosion control on  
16 every single pad?

17 A No, I don't think --

18 Q It says significant areas, not all areas.

19 A I don't think every single pad, but he highlighted  
20 on the map specific areas. And there's some pads that he  
21 didn't highlight, so I would assume there's some accuracy to  
22 the number of pads that were lacking in erosion control.

23 Q Do you read this map where he was -- one, do you  
24 read this map -- I'm looking at the area south of Tangelos  
25 Place. In the three pads to the left, you do not have an

1 arrow across it.

2 Do you think those three pads are encompassed in  
3 his or not?

4 A I do not.

5 Q You do not think that they are?

6 A I do not think that they are because the arrows go  
7 up to the edge of that lot line and then to the edge.

8 Q So you are reading his arrows literally that his  
9 comments only cover the places where he had -- he physically  
10 wrote the arrows?

11 A That is the way I'm interpreting it.

12 Q Did you ever talk with him about if that's what he  
13 meant?

14 A I did not.

15 Q You talked about the sediment in the road as an  
16 indicator as lack of erosion BMPs?

17 A Yes.

18 Q How do you do you know that the sediment was from  
19 active areas and not inactive areas?

20 A I don't know for sure, but if it was an inactive  
21 area, then there would be the requirement that it be covered  
22 and have soil stabilization. So I would think that it would  
23 be less likely that it would come from that area, but it  
24 could also come from an inactive area.

25 Q Well, did you notice them for a violation of

1 inactive BMPs on September 15th?

2 A Yes.

3 Q And did you notice them for failure to implement  
4 stockpile BMPs on -- I'll retract that.

5 So you did notice them for failure to have  
6 sufficient BMPs of inactive areas on September 15th?

7 A Yes.

8 Q So if they didn't have sufficient BMPs in inactive  
9 areas, could it have come from the inactive areas?

10 A It could.

11 MS. BERESFORD: I don't have anymore questions for  
12 tonight. Should we go off the record?

13 (Recess.)

14 (The deposition was adjourned at 5:52 p.m.)  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

Declaration Under Penalty of Perjury

I, FRANK MELBOURN, declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct; that I have read my deposition and have made the necessary corrections, additions, or changes to my answers that I deem necessary.

Executed on this 21<sup>ST</sup> day of JANUARY, 2016.

A handwritten signature in cursive script, reading "Frank Melbourn", written in black ink.

FRANK MELBOURN

REPORTER'S CERTIFICATE

1 STATE OF CALIFORNIA

2 COUNTY OF SAN DIEGO

3

4 I, DULCEMARIA DUARTE, Certified Shorthand Reporter,  
5 in and for the State of California, Certificate Number 13968,  
6 do hereby certify:

7 That the witness in the foregoing deposition was by  
8 me first duly sworn to testify to the truth, the whole truth,  
9 and nothing but the truth; that said deposition was taken  
10 before me pursuant to notice, at the time and place therein  
11 set forth, and reported by me in shorthand and transcribed,  
12 through computer-aided transcription, under my direction; and  
13 that the above and foregoing pages are a true record of the  
14 testimony elicited and proceedings had at said deposition.

15 I do further certify that I am a disinterested  
16 person and am in no way interested in the outcome of this  
17 action or connected with or related to any of the parties in  
18 this action or to their respective counsel.

19

20 In witness whereof, I have hereunto set my hand

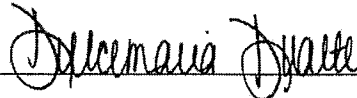
21 This 19th day of January, 20 16.

22

23

24

25



DULCEMARIA DUARTE, CSR No. 13968





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92:19 93:5	46:22	157:9,24 158:4		
96:7,8,10,19		158:7,11 176:2		
106:10,11	<u>7</u>	176:6,20 177:5		
113:8,10,11	7 2:11 38:7,8,10	<b>8/10ths</b> 49:13		
120:24 151:6,7	38:13,13,23	<b>8:55</b> 62:3		
151:9,18,20	39:8 60:5			
152:1,7,8	67:14 68:1,2	<u>9</u>		
156:20 157:11	69:7 74:3	<b>9</b> 2:18 96:6,11		
165:3,4 171:6	92:14,19 93:5	96:17,21,25		
177:1,2,14,17	106:24 107:6	97:8,9,19		
182:22	107:15 109:10	98:17,23 99:13		
<b>5A2</b> 27:22	113:17,20	99:14 114:7,10		
<b>5th</b> 63:22	151:18,20	138:9 157:14		
<b>5:52</b> 187:14	152:2 156:21	157:15,22		
<b>50</b> 36:23 51:21	157:12 177:1,2	<b>9th</b> 74:7 99:2		
54:21 78:15	177:17 179:5	<b>9:00</b> 7:17		
160:9 176:2	182:23	<b>9:02</b> 3:2 5:1		
	<b>7th</b> 64:19 82:1	<b>916</b> 3:19		
<u>6</u>	154:23,25	<b>92</b> 9:20		
<b>6</b> 43:19 44:6,8	<b>70</b> 184:1 185:13	<b>92101</b> 4:5		
60:2 67:14	<b>71</b> 2:17	<b>93</b> 11:12		
68:1,2 69:7	<b>72</b> 35:6	<b>95</b> 67:23		
74:8 92:14,19	<u>8</u>	<b>95812</b> 3:19		
93:5 103:16,20	<b>8</b> 26:21 48:17			
103:23 104:6	54:2 64:1,3			
106:18 112:9	65:20,22 66:6			
112:12,16	67:14 68:1,2			
115:8 140:4	69:7 92:12,14			
141:24 149:15	94:7,13 114:22			
149:19 153:18	143:20 144:4,9			
156:20 157:11	144:10,11,14			
158:14,16	144:16,18			
175:3,9 177:1	149:15,19			
177:2,17	151:23 154:4			
178:22,22,25	154:13,15			
182:4	175:6,10			
<b>6th</b> 64:17	176:14			
107:22 111:8	<b>8th</b> 27:2 65:8			
111:14 112:12	66:8,11,19,21			
139:2 142:6,25	67:2,11 74:9			
162:7	91:22 92:17			
<b>60</b> 184:1,6	94:11 95:2,20			
185:13	143:17,23			
<b>600096</b> 1:22	151:24 153:24			
<b>619</b> 4:5				



ORIGINAL

VOLUME 1 OF 1  
EXHIBITS 1 THROUGH 5

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN DIEGO REGION

IN THE MATTER OF:

ADMINISTRATIVE CIVIL LIABILITY COMPLAINT  
NO. R9-2015-0110  
AGAINST SAN ALTOS- LEMON GROVE, LLC

---

**EXHIBIT  
BOOKLET**

DEPOSITION OF FRANK MELBOURN  
TAKEN AT SAN DIEGO, CALIFORNIA  
JANUARY 13, 2016

Job Number 600096

REPORTED BY DULCEMARIA DUARTE, CSR  
CERTIFICATE NO. 13968

# Melbourn, Frank - Vol. 1



Litigation  
SERVICES

Job: 600096

Exhibit: 00001



**BEFORE THE SAN DIEGO REGIONAL WATER QUALITY CONTROL BOARD  
SUBPOENA FOR ADJUDICATIVE ACTION**

<b>ATTORNEY OR PARTY WITHOUT ATTORNEY REQUESTING SUBPOENA (name, address, and telephone no.):</b> S. Wayne Rosenbaum, Esq. (619) 231-5858 Opper & Varco LLP, 225 Broadway, 19th Fl., San Diego REPRESENTING: San Altos - Lemon Grove, LLC CA 92101	<b>FOR REGIONAL WATER BOARD USE ONLY</b>
<b>TITLE OF THE PROCEEDING:</b> Administrative Civil Liability Complaint No. R9-2015-0110	
<input checked="" type="checkbox"/> SUBPOENA <input checked="" type="checkbox"/> SUBPOENA DUCES TECUM	<input type="checkbox"/> RE HEARING <input type="checkbox"/> RE DEPOSITION

THE PEOPLE OF THE STATE OF CALIFORNIA, TO (name): **Frank Melbourn**

1. YOU ARE ORDERED TO APPEAR AS A WITNESS in this proceeding as follows unless you make special agreement with the person named in item 3:

a. Date: <b>January 13, 2016</b>	Time: <b>9:00 a.m.</b>
b. Address: <b>225 Broadway, 19th Fl., San Diego, CA 92101</b>	

2. AND YOU ARE:

- a. ☐ Ordered to appear in person. (Wat. Code, § 1080; Gov. Code, § 11450.10; Cal. Code Regs., tit. 23, § 649.6.)  
b. ☐ Not required to appear in person if you produce the records described in the accompanying affidavit in compliance with Evidence Code sections 1560 and 1561. (Wat. Code, § 1080; Gov. Code, § 11450.10(b); Cal. Code Regs., tit. 23, § 649.6.)  
c. ☒ Ordered to appear in person and to produce the records described in the accompanying affidavit. The personal attendance of the custodian or other qualified witness and the production of the original records is required by this subpoena. The procedure authorized by subdivision (b) of section 1560, and sections 1561 and 1562, of the Evidence Code will not be deemed sufficient compliance with this subpoena. (Wat. Code, § 1080; Gov. Code, § 11450.10; Cal. Code Regs., tit. 23, § 649.6.)

3. IF YOU HAVE ANY QUESTIONS ABOUT WITNESS FEES OR THE TIME OR DATE FOR YOU TO APPEAR, OR IF YOU WANT TO BE CERTAIN THAT YOUR PRESENCE IS REQUIRED, CONTACT THE FOLLOWING PERSON BEFORE THE DATE ON WHICH YOU ARE TO APPEAR:

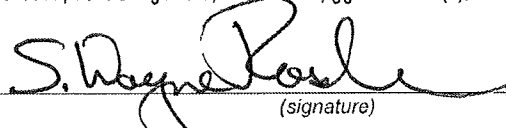
a. Name: <b>S. Wayne Rosenbaum</b>	b. Telephone number: <b>(619) 231-5858</b> <small>(Gov. Code, § 11450.20(a); Code Civ. Proc., § 1985.2.)</small>
------------------------------------	---

4. **WITNESS FEES:** You are entitled to witness fees and mileage actually traveled, both ways, as provided by law. Request them from the person who serves this subpoena or from the person named in item 3. (Wat. Code, §§ 1081, 1083, 1084; Gov. Code, §§ 11450.40, 68070 et seq.; Code Civ. Proc., §§ 1986.5, 2065.)
5. If you object to the terms of this subpoena, you may file a motion for a protective order including a motion to quash. Motions must be made within a reasonable period after receipt of the subpoena, and shall be made with written notice to all parties, with proof of service upon all parties attached. In response to your motion, the hearing officer may make an order quashing the subpoena entirely, modifying it, or directing compliance with it, or may make any order needed to protect the parties or witnesses from unreasonable or oppressive demands, including unreasonable violations of the right to privacy. (Gov. Code, § 11450.30.) (Send motions to: San Diego Regional Water Quality Control Board, 2375 Northside Drive, Suite 100, San Diego, CA 92108, Attn: David Gibson, with copies to all parties and to Catherine George Hagan, State Water Resources Control Board, Office of Chief Counsel, c/o San Diego Water Board, 2375 Northside Drive, Suite 100, San Diego, CA 92108.)

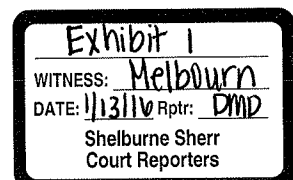
**DISOBEDIENCE OF THIS SUBPOENA MAY CAUSE YOU TO BE LIABLE FOR CONTEMPT AND OTHER PENALTIES PROVIDED BY LAW**

(Wat. Code, §§ 1090-1097; 23 CCR §648.8; Gov. Code, §§ 11450.20(b), 11455.10-11455.30.)

Dated: **December 29, 2015**

  
(signature)

Name: **S. Wayne Rosenbaum**  
Title: **Partner - Opper & Varco LLP**  
**Attorney for San Altos - Lemon Grove**



1 S. WAYNE ROSENBAUM (SBN 182456)  
2 OPPER & VARCO, LLP  
225 Broadway, Suite 1900  
San Diego, California 92101  
Telephone: 619.231.5858  
Facsimile: 619.231.5853  
Email: swr@envirolawyer.com

5 Attorney for San Altos – Lemon Grove, LLC

6 BEFORE THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

7 SAN DIEGO REGION

8 IN THE MATTER OF;

9 Administrative Civil Liability Complaint  
10 No. R9-2015-0110 Against San Altos – Lemon Grove, LLC

AFFIDAVIT IN SUPPORT OF SUBPOENA FOR  
DOCUMENTS AND THINGS FROM FRANK  
MELBOURN

11 1. I, S. Wayne Rosenbaum, declare that I am counsel for San Altos – Lemon Grove, LLC (“San  
12 Altos”), a Designated Party in the above-entitled matter.

13 2. On December 4, 2015, the Advisory Team for the California Regional Water Quality Control  
14 Board, San Diego Region (“Advisory Team”) issued the Final Hearing Procedures for ACLC R9-2015-0110. (“Final  
15 Hearing Procedures”), which included a list of deadlines (the “Schedule”) prior to the currently scheduled hearing  
16 date of February 10, 2016.

17 3. The Schedule requires San Altos submit “All evidence (other than witness testimony to be  
18 presented orally at the hearing) that the Designated Party would like the San Diego Water Board to consider” by  
19 January 4, 2016.

20 4. Good cause exists for the production of the document described below because such evidence is  
21 probative of the veracity of the alleged violations of the Complaint.

22 5. As an Employee of the San Diego Water Board, Frank Melbourn has, or should have, the  
23 documents described below in his possession or control.

24 6. The exact documents to be produced include:

25 a. All records and documents, including, but not limited to, inspection reports, notices of  
26 violation, administrative citations, stop work notices, correct work notices, field notes, photographs, audio  
27

28 AFFIDAVIT IN SUPPORT OF SUBPOENA FOR DOCUMENTS AND THINGS FROM FRANK MELBOURN



1 or video recordings, phone logs, and internal communications, including emails, related to inspections that  
2 occurred at the San Altos – Lemon Grove, LLC Valencia Hills Construction Site on the following dates:

3 December 1, 2014

4 December 2, 2014

5 December 3, 2014

6 December 4, 2014

7 December 5, 2014

8 December 6, 2014

9 December 7, 2014

10 December 8, 2014

11 December 9, 2014

12 December 11, 2014

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14 December 15, 2014

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25 January 13, 2015

26 March 1, 2015

1	March 18, 2015
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8	March 25, 2015
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10	March 27, 2015
11	March 28, 2015
12	March 29, 2015
13	March 30, 2015
14	March 31, 2015
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17	May 9, 2015
18	May 10, 2015
19	May 11, 2015
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21	May 13, 2015
22	May 14, 2015
23	May 15, 2015
24	September 15, 2015
25	October 5, 2015

AFFIDAVIT IN SUPPORT OF SUBPOENA FOR DOCUMENTS AND THINGS FROM FRANK MELBOURN

1           b.       Any additional records and documents, including, but not limited to, inspection reports,  
2 notices of violation, administrative citations, stop work notices, correct work notices, field notes,  
3 photographs, audio or video recordings, phone logs, and internal communications, including emails, related  
4 to inspections that occurred at the San Altos – Lemon Grove, LLC Valencia Hills Construction Site,  
5 regardless of whether or not the inspection led to the issuance of a formal report, notice, or citation from Mr.  
6 Melbourn and/or the San Diego or State Water Quality Control Boards to San Altos – Lemon Grove, LLC  
7 from March 6, 2014 to October 19, 2015.

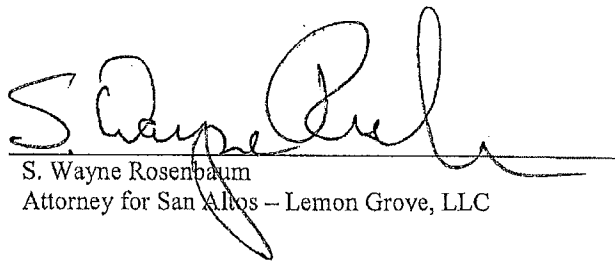
8           c.       Any documents, contracts, work orders, requests for services, communications or records  
9 thereof including but not limited to emails, or invoices related to inspections, testing, report writing, or  
10 materials related to services rendered by D-Max Engineering, Inc. on behalf of the City of Lemon Grove  
11 that involved or affected the San Altos – Lemon Grove, LLC Valencia Hills Project Site during the period  
12 of March 6, 2014 through October 19, 2015.

13           d.       A copy of Mr. Melbourn's curriculum vitae listing his education, qualifications, and  
14 experience.

15       7.       Emails, writings, or photographs should be provided in both printed and digital formats. Audio or  
16 video recordings may be provided in conventional formats accessible on personal computers without the assistance  
17 of specialized software.

18  
19 I declare under penalty of perjury that the foregoing is true and correct.

20  
21           Dated this 10th of December, 2015.

22  
23   
24 S. Wayne Rosenbaum  
25 Attorney for San Altos – Lemon Grove, LLC  
26  
27  
28

1 **OPPER & VARCO, LLP**  
S. WAYNE ROSENBAUM (Bar No. 182456)  
2 LINDA C. BERESFORD (Bar No. 199145)  
225 BROADWAY, SUITE 1900  
SAN DIEGO, CALIFORNIA 92101  
3 TELEPHONE: 619.231.5858  
FACSIMILE: 619.231.5853

4 ATTORNEYS FOR SAN ALTOS – LEMON GROVE, LLC

5  
6  
7  
8 **CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD**  
9 **SAN DIEGO REGION**  
10

11 IN THE MATTER OF: ) **SAN ALTOS – LEMON GROVE, LLC'S**  
12 ADMINISTRATIVE CIVIL LIABILITY COMPLAINT ) **AMENDED NOTICE OF DEPOSITION**  
13 No. R9-2015-0110 ) **OF FRANK MELBOURN AND**  
AGAINST SAN ALTOS – LEMON GROVE, LLC ) **REQUEST FOR PRODUCTION OF**  
14 ) **DOCUMENTS**  
15 ) Date: January 13, 2016  
16 ) Time: 9:00 a.m.  
17 ) Place: Law Offices of Oppen & Varco LLP  
225 Broadway, Suite 1900  
San Diego, CA 92101

18 TO ALL PARTIES AND TO THEIR ATTORNEYS OF RECORD:

19 PLEASE TAKE NOTICE that on January 13, 2016 at 9:00 a.m., San Altos – Lemon  
20 Grove, LLC will take the deposition of Frank Melbourn in accordance with the enclosed  
21 subpoena. This deposition will take place at the law firm of Oppen & Varco, LLP, located at 225  
22 Broadway, Suite 1900, San Diego, CA 92101, before a certified reporter or person authorized to  
23 administer oaths who is present at the specified time and place. Said deposition will continue  
24 from day to day, Saturdays, Sundays and holidays excepted, until completed.

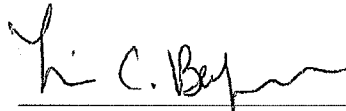
25 YOU ARE FURTHER NOTIFIED that the deposition may also be recorded by videotape  
26 as authorized by the Code of civil Procedure section 2025.340 and Plaintiff reserves the right to  
27 use any videotaped portion of the deposition testimony at a hearing in this matter. The  
28 deposition may also be recorded through such means as to provide the instant display of the

1 testimony as also authorized by Code of Civil Procedure section 2025.340.

2 YOU ARE FURTHER NOTIFIED that San Altos-Lemon Grove, LLC requests that  
3 Frank Melbourn produce the documents identified in Attachment A to this Notice of Deposition  
4 and Request for Production of Documents.

5  
6 Dated: December 29, 2015

OPPER & VARCO LLP

7  
8 

9  
10 Linda C. Beresford

11 Attorney for San Altos – Lemon Grove, LLC  
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1 S. WAYNE ROSENBAUM (SBN 182456)  
2 OPPER & VARCO, LLP  
225 Broadway, Suite 1900  
San Diego, California 92101  
Telephone: 619.231.5858  
Facsimile: 619.231.5853  
Email: swr@envirolawyer.com

5 Attorney for San Altos -- Lemon Grove, LLC

6 BEFORE THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

7 SAN DIEGO REGION

8 IN THE MATTER OF;

9 **Administrative Civil Liability Complaint**  
10 **No. R9-2015-0110 Against San Altos -- Lemon Grove, LLC**

AFFIDAVIT IN SUPPORT OF SUBPOENA FOR  
DOCUMENTS AND THINGS FROM FRANK  
MELBOURN

11 1. I, S. Wayne Rosenbaum, declare that I am counsel for San Altos -- Lemon Grove, LLC ("San  
12 Altos"), a Designated Party in the above-entitled matter.

13 2. On December 4, 2015, the Advisory Team for the California Regional Water Quality Control  
14 Board, San Diego Region ("Advisory Team") issued the Final Hearing Procedures for ACLC R9-2015-0110. ("Final  
15 Hearing Procedures"), which included a list of deadlines (the "Schedule") prior to the currently scheduled hearing  
16 date of February 10, 2016.

17 3. The Schedule requires San Altos submit "All evidence (other than witness testimony to be  
18 presented orally at the hearing) that the Designated Party would like the San Diego Water Board to consider" by  
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21 probative of the veracity of the alleged violations of the Complaint.

22 5. As an Employee of the San Diego Water Board, Frank Melbourn has, or should have, the  
23 documents described below in his possession or control.

24 6. The exact documents to be produced include:

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28 AFFIDAVIT IN SUPPORT OF SUBPOENA FOR DOCUMENTS AND THINGS FROM FRANK MELBOURN

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24	September 15, 2015
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26	
27	
28	



b. Any additional records and documents, including, but not limited to, inspection reports, notices of violation, administrative citations, stop work notices, correct work notices, field notes, photographs, audio or video recordings, phone logs, and internal communications, including emails, related to inspections that occurred at the San Altos – Lemon Grove, LLC Valencia Hills Construction Site, regardless of whether or not the inspection led to the issuance of a formal report, notice, or citation from Mr. Melbourn and/or the San Diego or State Water Quality Control Boards to San Altos – Lemon Grove, LLC from March 6, 2014 to October 19, 2015.


c. Any documents, contracts, work orders, requests for services, communications or records thereof including but not limited to emails, or invoices related to inspections, testing, report writing, or materials related to services rendered by D-Max Engineering, Inc. on behalf of the City of Lemon Grove that involved or affected the San Altos – Lemon Grove, LLC Valencia Hills Project Site during the period of March 6, 2014 through October 19, 2015.

d. A copy of Mr. Melbourn's curriculum vitae listing his education, qualifications, and experience.

7. Emails, writings, or photographs should be provided in both printed and digital formats. Audio or video recordings may be provided in conventional formats accessible on personal computers without the assistance of specialized software.

I declare under penalty of perjury that the foregoing is true and correct.

Dated this 10th of December, 2015.

  
S. Wayne Rosenbaum  
Attorney for San Altos – Lemon Grove, LLC

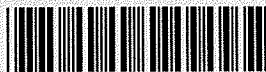
# Melbourn, Frank - Vol. 1



Litigation  
SERVICES

Job: 600096

Exhibit: 00002





San Diego Regional Water Quality Control Board

October 19, 2015

**Certified Mail – Return Receipt Requested**  
Article Number: 7011 0470 0002 8952 5263

Mr. Ben C. Anderson  
San Altos-Lemon Grove, LLC  
Suite 225  
5780 Fleet Street  
Carlsbad, California 92008

**In reply refer to:** SM-828060:FMelbourn

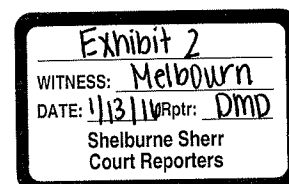
**Notice of Hearing and Issuance of Complaint No. R9-2015-0110 for Administrative Civil Liability Against San Altos-Lemon Grove, LLC for Violations of Order No. 2009-0009-DWQ, as amended.**

Mr. Anderson:

Enclosed find Complaint No. R9-2015-0110 (Complaint) for Administrative Civil Liability against San Altos-Lemon Grove, LLC (Discharger) for \$848,374 for violations of State Water Resources Control Board Order No. 2009-0009-DWQ, as amended by Order Nos. 2010-0014-DWQ and 2012-0006-DWQ, *National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities*, California Water Code (Water Code) section 13376, the Water Quality Control Plan for the San Diego Basin, and federal Clean Water Act section 301. The alleged violations are described in the Complaint and the attached Technical Analysis to the Complaint. Pursuant to Water Code section 13323, the California Regional Water Quality Control Board, San Diego Region (San Diego Water Board) shall hold a hearing on the Complaint no later than ninety (90) days after it is issued.

**Waiver of Hearing**

You may elect to waive your right to a hearing before the San Diego Water Board. Waiver of the hearing constitutes admission of the violations alleged in the Complaint and acceptance of the assessment of civil liability as set forth in the Complaint. For the San Diego Water Board to accept the waiver of your right to a public hearing, you must sign, as the Legally Responsible Person for San Altos-Lemon Grove, LLC, the enclosed waiver form with Option 1 selected, and submit it to the San Diego Water Board by 5:00 p.m. on **October 30, 2015**.



HENRY ARABIANELL, PH.D., CHAIR | DAVID GIBSON, EXECUTIVE OFFICER

2375 Northside Drive, Suite 100, San Diego, California 92108-2700 • [www.waterboards.ca.gov/sandiego](http://www.waterboards.ca.gov/sandiego)

Public Hearing

Alternatively, if you elect to proceed to a public hearing, a hearing is tentatively scheduled to be held at the San Diego Water Board meeting on **December 16, 2015**. The meeting is scheduled to convene at the San Diego Water Board, 2375 Northside Drive, Suite 100, San Diego, California at 9:00 a.m. At that time, the San Diego Water Board will accept testimony, public comment, and decide whether to affirm, reject, or modify the proposed liability, or whether to refer the matter for judicial civil action.

Enclosed is the recommended hearing procedure for the San Diego Water Board to follow in conducting the hearing. Please note that comments on the proposed procedure are due by **October 26, 2015**, to the San Diego Water Board's advisory attorney, Catherine Hagan, at the address indicated in the hearing procedure.

Please submit all written documents as Portable Document Format (PDF) files to [sandiego@waterboards.ca.gov](mailto:sandiego@waterboards.ca.gov). In the subject line of any response, please include the reference number **SM-828060:FMelbourn**. For questions or comments, please contact Frank Melbourn by telephone at (619) 521-3372, or by email at [fmelbourn@waterboards.ca.gov](mailto:fmelbourn@waterboards.ca.gov).

Respectfully,



JAMES G. SMITH  
Assistant Executive Officer

Mr. Ben C. Anderson  
San Altos-Lemon Grove, LLC  
ACL Complaint No. R9-2015-0110

- 3 -

October 19, 2015

JGS:jch:ljd:cmc:ftm

Enclosures:

1. ACL Complaint No. R9-2015-0110 with attached Technical Analysis
2. ACL Complaint Fact Sheet
3. Proposed Hearing Procedure
4. Waiver of Public Hearing Form

cc with enclosures:

David Boyers, State Water Resources Control Board, [dboyers@waterboards.ca.gov](mailto:dboyers@waterboards.ca.gov)  
Wayne Chiu, San Diego Water Board, [wchiu@waterboards.ca.gov](mailto:wchiu@waterboards.ca.gov)  
Chiara Clemente, San Diego Water Board, [cclemente@waterboards.ca.gov](mailto:cclemente@waterboards.ca.gov)  
Laura Drabandt, State Water Resources Control Board, [ldrabandt@waterboards.ca.gov](mailto:ldrabandt@waterboards.ca.gov)  
Jeremy Haas, San Diego Water Board, [jhaas@waterboards.ca.gov](mailto:jhaas@waterboards.ca.gov)  
Catherine Hagan, State Water Resources Control Board, [chagan@waterboards.ca.gov](mailto:chagan@waterboards.ca.gov)  
Deborah Jayne, San Diego Water Board, [djayne@waterboards.ca.gov](mailto:djayne@waterboards.ca.gov)  
Marc Ozarski, Agent for Service of Process, Ste. 225, 5780 Fleet St., Carlsbad, CA 92008  
Malik Tamimi, City of Lemon Grove, [mtamimi@lemongrove.ca.gov](mailto:mtamimi@lemongrove.ca.gov)  
Laurie Walsh, San Diego Water Board, [lwalsh@waterboards.ca.gov](mailto:lwalsh@waterboards.ca.gov)

SMARTS:

Place ID: SM-828060  
Violation IDs: 855345, 855346, 857231, 857232, 857243, and 857267  
WDID No: 9 37C369143  
Enforcement ID: 420236

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN DIEGO REGION**

In the matter of:

**San Altos-Lemon Grove, LLC  
Valencia Hills Construction Site  
San Diego County**

**COMPLAINT NO. R9-2015-0110  
FOR  
ADMINISTRATIVE CIVIL LIABILITY**

**Noncompliance with  
Order No. 2009-0009-DWQ,  
Water Code § 13376,  
Water Quality Control Plan for the  
San Diego Basin, and  
Clean Water Act § 301**

**PIN: SM-828060**

**October 19, 2015**

**SAN ALTOS-LEMON GROVE, LLC IS HEREBY GIVEN NOTICE THAT:**

1. San Altos-Lemon Grove, LLC (Discharger) has violated provisions of law for which the California Regional Water Quality Control Board, San Diego Region (San Diego Water Board) may impose civil liability pursuant to Water Code section 13385.
2. This Administrative Civil Liability Complaint is issued under authority of Water Code section 13323.
3. The Discharger is constructing Valencia Hills, a single family detached home community of 78 homes on 18.26 acres (Site). The Site is located at 1350 San Altos Place, in the southwest corner of the City of Lemon Grove, County of San Diego, California.
4. The Discharger is the property owner. Ben C. Anderson is the contact and the "Legally Responsible Person" (LRP) for the Discharger.
5. On March 6, 2014, Ben C. Anderson, on behalf of the Discharger filed a Notice of Intent (NOI) to comply with California State Water Resources Control Board (State Water Board) Order No. 2009-0009-DWQ, as amended by Order Nos. 2010-0014-DWQ and 2012-0006-DWQ, *National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities* (Construction Storm Water Permit).

6. The Discharger stated in the NOI that construction activities would begin at the Site on March 1, 2014, and end on December 31, 2015. Additionally, the Discharger stated in the NOI that the Site is a Risk Level 2 construction site; thus acknowledging that the Discharger must implement the requirements in Attachment D to the Construction Storm Water Permit to achieve Best Available Technology Economically Achievable (BAT) and Best Conventional Pollutant Control Technology (BCT). On March 12, 2014, the State Water Board processed the NOI and assigned Waste Discharge Identification (WDID) No. 9 37C369143 to the Site.
7. Construction Storm Water Permit section V.A.2. requires the implementation of best management practices (BMPs), using best available technology economically achievable (BAT) and best conventional pollutant control technology (BCT) to reduce pollution from storm water runoff from construction sites.
8. On December 12, 2014, the City of Lemon Grove (City) requested the San Diego Water Board's assistance in obtaining regulatory compliance at the Site after documenting the Discharger's second sediment discharge. By this time, the City had inspected the Site at least seven times; resulting in two administrative citations, three stop work notices, and one correct work notice. San Diego Water Board staff inspected the Site on December 15, 2014. Based upon the results of the inspection and previous inspections by the City, the San Diego Water Board issued Notice of Violation No. R9-2014-0153 on December 19, 2014, to the Discharger.
9. The City provided its Site inspection reports and enforcement documents to the San Diego Water Board for the following days: August 14, 2014; December 2, 2014; December 4, 2014; December 8, 2014; December 9, 2014; December 11, 2014; December 12, 2014; December 15, 2014; December 16, 2014; December 17, 2014; December 23, 2014; December 24, 2014; December 29, 2014; December 31, 2014; January 6, 2015; January 14, 2015; January 19, 2015; March 1, 2015; March 5, 2015; March 18, 2015; March 24, 2015; April 1, 2015; September 15, 2015; and October 5, 2015.
10. The City issued administrative citations to the Discharger on the following dates: December 11, 2014; December 15, 2014; December 16, 2014; March 19, 2015 (2 citations); March 24, 2015; April 1, 2015; September 22, 2015; and October 5, 2015.
11. The San Diego Water Board inspected the Site on the following days: December 15, 2014; May 8, 2015; May 13, 2015; and May 15, 2015.

12. The Site lies within the Chollas Hydrologic Subarea (HSA) (908.22) of the Pueblo San Diego Hydrologic Unit. Storm water discharges from the Site flow directly into Encanto Channel and thence Chollas Creek.
13. The Water Quality Control Plan for the San Diego Basin (Basin Plan) designates the following beneficial uses for Chollas Creek and its tributaries:
  1. Contact Water Recreation (REC-1);
  2. Non-contact Water Recreation (REC-2);
  3. Warm Freshwater Habitat (WARM); and
  4. Wildlife Habitat (WILD).
14. Chollas Creek is designated as impaired for diazinon, dissolved metals (copper, lead, and zinc), indicator bacteria, nutrients (phosphorus and nitrogen), and trash pursuant to Clean Water Act section 303(d).

#### ALLEGED VIOLATIONS

15. **Violation No. 1:** The Discharger violated Water Code section 13376; Construction Storm Water Permit Discharge Prohibitions III.A. and III.B., section V.A.2. and Attachment D section A.1.b; Basin Plan Waste Discharge Prohibition No. 8; and the Federal Water Pollution Control Act (Clean Water Act) (33 U.S.C. § 1251 et seq.) section 301 (33 U.S.C. § 1311) by discharging sediment laden storm water from the Site into Encanto Channel and thence Chollas Creek on the following six days: December 4, 2014; December 12, 2014; December 17, 2014; December 31, 2014; May 8, 2015, and September 15, 2015.
16. **Violation No. 2:** The Discharger violated Construction Storm Water Permit Attachment D, section B.1.b. by failing to implement material stockpile BMPs at the Site on the following 10 days: December 2 through 8, 2014; December 15, 2014; May 13, 2015; and September 15, 2015.
17. **Violation No. 3:** The Discharger violated Construction Storm Water Permit Attachment D, section B.3.a. by failing to implement vehicle fluid leak BMPs at the Site on the following two days: December 15, 2014; and May 13, 2015.
18. **Violation No. 4:** The Discharger violated Construction Storm Water Permit Attachment D, section D.2. by failing to implement erosion control BMPs in inactive areas at the Site on the following 22 days: December 1 through 9, 2014; December 15 through 16, 2014; January 6, 2015; January 14, 2015; May 8 through 15, 2015; and September 15, 2015.



19. **Violation No. 5:** The Discharger violated Construction Storm Water Permit Attachment D, section E.1. by failing to implement perimeter sediment control BMPs at the Site on the following 14 days: December 4 through 8, 2014; December 15 through 16, 2014; May 8 through 13, 2015; and September 15, 2015.
20. **Violation No. 6:** The Discharger violated Construction Storm Water Permit Attachment D, section E.3. by failing to implement erosion control BMPs in active areas at the Site on the following 22 days: December 1 through 8, 2014; December 15 – 16, 2014; January 6, 2015; March 23 through 24, 2015; May 8 through 15, 2015; and September 15, 2015.
21. **Violation No. 7:** The Discharger violated Construction Storm Water Permit Risk Attachment D, section E.4. by failing to apply linear sediment controls at the Site on the following nine days: December 15 through 16, 2014; May 8 through 13, 2015; and September 15, 2015.
22. **Violation No. 8:** The Discharger violated Construction Storm Water Permit Attachment D, section F. by failing to effectively manage run-on and runoff at the Site on the following seven days: December 15, 2014; and May 8 through 13, 2015.
23. **Violation No. 9:** The Discharger violated Construction Storm Water Permit Attachment D, section E.7. by failing to remove sediment or other construction materials from roads at the Site on the following 10 days: December 2 through 9, 2014; December 16, 2014; and September 15, 2015.
24. **Violation No. 10:** The Discharger violated Construction Storm Water Permit Attachment D, section E.6. by failing to protect storm drain inlets at the Site on the following three days: December 8, 2014; May 13, 2015; and September 15, 2015.
25. **Violation No. 11:** The Discharger violated Construction Storm Water Permit Attachment D, section B.2.f. by failing to contain and securely protect stockpiles waste material from wind and rain at the Site on the following nine days: January 6 through 14, 2015.
26. **Violation No. 12:** The Discharger violated Construction Storm Water Permit Attachment D, section B.1.c. by failing to properly store chemicals at the Site on the following seven days: March 18 through 24, 2015.

27. **Violation No. 13:** The Discharger violated Construction Storm Water Permit Attachment D, section B.2.i. by failing to prevent the discharge of concrete waste to the ground at the Site on the following 15 days: March 18 through April 1, 2015.
28. The details of these violations are set forth in full in the accompanying Technical Analysis, which is incorporated herein by this reference as if set forth in full.

#### MAXIMUM LIABILITY

29. Pursuant to Water Code section 13385(a), a person who violates either Water Code section 13376, a waste discharge requirement, a basin plan prohibition, or a requirement of section 301 of the federal Clean Water Act is subject to administrative civil liability pursuant to Water Code section 13385(c)

*...in an amount not to exceed the sum of both of the following:*

*(1) Ten thousand dollars (\$10,000) for each day in which the violation occurs.*

*(2) Where there is a discharge, any portion of which is not susceptible to cleanup or is not cleaned up, and the volume discharged but not cleaned up exceeds 1,000 gallons, an additional liability not to exceed ten dollars (\$10) multiplied by the number of gallons by which the volume discharged but not cleaned up exceeds 1,000 gallons.*

30. Due to the difficulty in accurately determining the volume of sediment laden storm water discharged during the discharge events, civil liability was only calculated on a per day basis for the discharge violations. Therefore, the maximum liability that the San Diego Water Board may assess for the alleged violations listed above is \$1,360,000 pursuant to Water Code section 13385(c).

#### MINIMUM LIABILITY

31. Water Code section 13385(e) requires that when pursuing civil liability under section 13385, "[a]t a minimum, liability shall be assessed at a level that recovers the economic benefits, if any, derived from the acts that constitute the violation." The State Water Board Enforcement Policy (Enforcement Policy) further instructs the Regional Water Boards to assess liability against a violator at least ten percent higher than the economic benefit realized from the violation, such that liabilities are not construed as the cost of doing business and provide a meaningful deterrent to future violators.

32. As detailed in the attached Technical Analysis, and based on a calculated economic benefit of \$29,923, the minimum liability amount the San Diego Water Board may assess the Discharger is \$32,915.

**PROPOSED LIABILITY**

33. Pursuant to Water Code section 13385(e), in determining the amount of any civil liability, the San Diego Water Board shall consider the nature, circumstances, extent, and gravity of the violations, whether the discharge is susceptible to cleanup or abatement, the degree of toxicity of the discharge; and with respect to the Discharger, the ability to pay, the effect on the Discharger's ability to continue in business, any voluntary cleanup efforts undertaken, any prior history of violations, the degree of culpability, economic benefit or savings, if any, resulting from the violations, and other matters as justice may require.
34. The Enforcement Policy establishes a methodology for assessing administrative civil liability. The use of this methodology addresses the factors that are required to be considered when imposing a civil liability as outlined in Water Code section 13385(e). The required factors have been considered for the violations alleged herein using the methodology in the Enforcement Policy, as explained in detail in the Technical Analysis and summarized in Technical Analysis Exhibit No. 27, Penalty Methodology Summary.
35. Based on consideration of the above facts, the applicable law, and after applying the penalty calculation methodology in section VI of the Enforcement Policy, the Prosecution Team recommends that the San Diego Water Board impose civil liability against the Discharger in the amount of \$848,374 for the violations alleged herein and set forth in full in the accompanying Technical Analysis. The assessed amount includes \$15,763 for 212.5 hours of San Diego Water Board staff time to investigate and prepare the enforcement documents. Should this matter proceed to hearing, the San Diego Water Board may choose to increase the recommended liability to recover additional necessary staff costs accrued after this Complaint is issued and through the hearing.

  
\_\_\_\_\_  
JAMES G. SMITH  
Assistant Executive Officer

Signed pursuant to the authority delegated by the Executive Officer to the Assistant Executive Officer.

**ACL Complaint No. R9-2015-0110  
San Altos-Lemon Grove, LLC  
Valencia Hills Construction Site**

**October 19, 2015**

Attachment: Technical Analysis

SMARTS:

Place ID: SM-828060

Violation IDs: 855345, 855346, 857231, 857232, 857243, and 857267

WDID No: 9 37C369143

Enforcement ID: 420236



**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN DIEGO REGION**

**TECHNICAL ANALYSIS**

**ADMINISTRATIVE CIVIL LIABILITY CONTAINED IN  
COMPLAINT NO. R9-2015-0110**

**for**

**SAN ALTOS-LEMON GROVE, LLC  
VALENCIA HILLS CONSTRUCTION SITE  
WDID 9 37C369143**

**NONCOMPLIANCE**

**with**

**State Water Resources Control Board Order No. 2009-0009-DWQ,  
as amended by Order No. 2010-0014-DWQ and 2012-0006-DWQ,  
*National Pollutant Discharge Elimination System (NPDES)*  
*General Permit for Storm Water Discharges associated with  
Construction and Land Disturbance Activities***

**and**

**Water Quality Control Plan for the San Diego Basin**

**and**

**Water Code Section 13376**

**and**

**Clean Water Act Section 301**

**Prepared by**

**Frank Melbourn  
Water Resource Control Engineer  
Compliance Assurance Unit**

**October 19, 2015**

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**EXHIBITS**

- Exhibit No. 1: Notice of Intent
- Exhibit No. 2: City Stop Work Notice December 2, 2014
- Exhibit No. 3: City Stop Work Notice December 4, 2014
- Exhibit No. 4: City Inspection Report December 8, 2014
- Exhibit No. 5: City Inspection Report December 9, 2014
- Exhibit No. 6: City Administrative Citation December 11, 2014
- Exhibit No. 7: City Administrative Citation December 15, 2014
- Exhibit No. 8: San Diego Water Board Inspection Report December 15, 2014
- Exhibit No. 9: City Letter with Administrative Citation and Inspection Report December 16, 2014
- Exhibit No. 10: City Contractor Report December 17, 2014
- Exhibit No. 11: Notice of Violation No. R9-2014-0153
- Exhibit No. 12: City Contractor Report December 31, 2014
- Exhibit No. 13: City Inspection Report March 18, 2015
- Exhibit No. 14: City Administrative Citation March 19, 2015
- Exhibit No. 15: City Correct Work Notice March 24, 2015
- Exhibit No. 16: City Administrative Citation March 24, 2015
- Exhibit No. 17: City Administrative Citation April 1, 2015
- Exhibit No. 18: San Diego Water Board Inspection Report May 8, 2015
- Exhibit No. 19: San Diego Water Board Inspection Report May 13, 2015
- Exhibit No. 20: San Diego Water Board Inspection Report May 15, 2015
- Exhibit No. 21: City Administrative Citation September 15, 2015
- Exhibit No. 22: City Inspection Report September 15, 2015
- Exhibit No. 23: City Administrative Citation October 5, 2015
- Exhibit No. 24: City Contractor Report January 16, 2015
- Exhibit No. 25: City Inspection Report January 6, 2015
- Exhibit No. 26: City Inspection Report January 14, 2015
- Exhibit No. 27: Penalty Methodology Summary
- Exhibit No. 28: Economic Benefit Calculation and Supporting Documentation
- Exhibit No. 29: Staff Cost Summary

## I. INTRODUCTION

This technical analysis provides a summary of factual and analytical evidence that support the findings in Administrative Civil Liability Complaint No. R9-2015-0110 (Complaint) and the recommended assessment of civil liability in the amount of **\$848,374** against San Altos-Lemon Grove, LLC (Discharger) for violations of California State Water Resources Control Board (State Water Board) Order No. 2009-0009-DWQ, as amended by Order Nos. 2010-0014-DWQ and 2012-0006-DWQ, *National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities* (Construction Storm Water Permit).

### A. Construction Storm Water Permit

The Construction Storm Water Permit authorizes discharges of storm water associated with construction activity so long as the dischargers comply with all requirements, provisions, limitations and prohibitions in the permit. Pursuant to federal statutes and regulations, the Construction Storm Water Permit requires the implementation of the best available technology economically achievable (BAT) and best conventional pollutant control technology (BCT) to reduce or eliminate pollutants in storm water runoff, as well as additional requirements necessary to implement applicable water quality standards.

Sites with any construction or demolition activity resulting in a land disturbance of equal to or greater than one acre are required to obtain coverage under the Construction Storm Water Permit. Dischargers that have obtained coverage under the Construction Storm Water Permit are required to implement controls, structures, and management practices (a.k.a. Best Management Practices [BMPs]<sup>1</sup>) that achieve BAT for toxic and non-conventional pollutants and BCT for conventional pollutants.

Based upon each site's sediment transport and receiving water risk (Risk Level), the Construction Storm Water Permit requires different BMPs, monitoring, and reporting to achieve and demonstrate BAT and BCT. The specific requirements for each Risk Level are contained in Attachments C, D, and E to the permit (Risk Level 1, 2, or 3, respectively). Sites that fail to implement one or more of the requirements contained in Attachments C, D, or E, as applicable, are not in compliance with the implementation of BMPs that achieve BAT and BCT. Discharges of storm water or non-storm water from sites where BMPs have not been implemented that achieve BAT and BCT, as required by the Construction Storm Water Permit, are unauthorized discharges.

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<sup>1</sup> Best Management Practices (BMPs) are "schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of 'waters of the United States.' BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage." (40 C.F.R. § 122.2)

### B. Site Description

The 18.26 acre Valencia Hills construction site (Site) is located within the City of Lemon Grove, and is within the Chollas Hydrologic Subarea (HSA 902.22) of the Pueblo San Diego Hydrologic Unit. Runoff from the Site discharges into Encanto Channel, and then discharges into Chollas Creek which discharges into San Diego Bay. Encanto Channel runs parallel to Akins Avenue along the southeastern side of the Site. See Figure 1.



**Figure 1.** Valencia Construction Site Location (Outlined in Red)

The Site is owned by San Altos-Lemon Grove, LLC (Discharger). Ben C. Anderson is the contact and the "Legally Responsible Person" (LRP) for the Discharger. On March 6, 2014, Ben Anderson, on behalf of the Discharger, filed a Notice of Intent (NOI) with the State Water Board to comply with the requirements of the Construction Storm Water Permit. See Exhibit No. 1, Notice of Intent. On March 12, 2014, the State Water Board processed the NOI and assigned Waste Discharge Identification (WDID) No. 9 37C369143 to the Discharger. The submitted NOI lists BCA Development, Inc. as the "Contractor/Developer" and Ben Anderson as its contact.

The NOI identifies the Site as a Risk Level 2 construction site that must implement the requirements in Attachment D to the Construction Storm Water Permit to achieve BAT and BCT. The submitted NOI, states that construction activities will disturb all 18.26 acres of the Site. The NOI further states that construction activities would begin on March 1, 2014, and final stabilization would be completed on December 31, 2015.

**C. Beneficial Uses of Potentially Affected Waters**

The Site indirectly discharges to Chollas Creek. The Water Quality Control Plan for the San Diego Basin (Basin Plan) designates beneficial uses for all surface and ground waters in the San Diego Region. These beneficial uses "*form the cornerstone of water quality protection under the Basin Plan.*" (Basin Plan, Chapter 2) Beneficial uses are defined in the Basin Plan as "*the uses of water necessary for the survival or well being of man, plants and wildlife.*" (*Id.*)

The Basin Plan also designates water quality objectives to protect the designated beneficial uses. Water Code section 13050(h) defines "water quality objectives" as "the limits or levels of water quality constituents or characteristics which are established for the reasonable protection of beneficial uses of water or the prevention of nuisance within a specific area."

The Basin Plan designates the following potential and existing beneficial uses for Chollas Creek:

- Contact Water Recreation (REC-1)
- Non-contact Water Recreation (REC-2)
- Warm Freshwater Habitat (WARM)
- Wildlife Habitat (WILD)

Chollas Creek is designated as impaired for diazinon, dissolved metals (copper, lead, and zinc), indicator bacteria, nutrients (phosphorus and nitrogen), and trash pursuant to Clean Water Act section 303(d). In August 2002, the San Diego Water Board adopted its first Total Maximum Daily Load (TMDL) to address diazinon impairment in Chollas Creek. In June 2007, the San Diego Water Board adopted a TMDL to address the dissolved metals impairment in Chollas Creek. In February 2010, the San Diego Water Board adopted a TMDL to address the indicator bacteria impairment in Chollas Creek.

**D. Compliance History**

December 2014: The City issued the Discharger a Stop Work Notice on December 2, 2014, for failing to implement required BMPs. See Exhibit No. 2, City Stop Work Notice December 2, 2014. The City warned the Discharger that without adequate BMPs, a "*discharge is imminent.*" The Discharger failed to implement the required BMPs and there was an unauthorized discharge of sediment and sediment laden storm water runoff from the Site into Encanto Channel on December 4, 2014. This resulted in the City issuing the Discharger a second Stop Work Notice on December 4, 2014. See Exhibit No. 3, Stop Work Notice December 4, 2014. The same BMP deficiencies identified before the storm event, as well as additional deficiencies in perimeter sediment controls were identified in a follow up City inspection of the Site on December 8 and 9, 2014. See Exhibit No. 4, City Inspection Report December 8, 2014; and Exhibit No. 5, City Inspection Report December 9, 2014.

On December 11, 2014, the City issued an Administrative Citation to the Discharger warning that if recommended BMPs were not installed by December 15, 2014, then monetary penalties would begin. See Exhibit No. 6, City Administrative Citation December 11, 2014. The City documented another unauthorized discharge of sediment and sediment laden storm water on December 12, 2014, from the Site into Encanto Channel and issued a second Administrative Citation. See Exhibit No. 7, City Administrative Citation December 15, 2014.

On December 12, 2014, the City requested the San Diego Water Board's assistance in obtaining regulatory compliance at the Site after the Discharger's second sediment discharge. By this time, the City had inspected the Site at least seven times; resulting in two administrative citations, three stop work notices, and one correct work notice. Therefore, the San Diego Water Board inspected the Site on December 15, 2014, and noted violations of the Construction Storm Water Permit. See Exhibit No. 8, San Diego Water Board Inspection Report December 15, 2014. On December 16, 2014, the City issued the Discharger its third Administrative Citation for failure to install adequate BMPs. See Exhibit No. 9, City Letter with Administrative Citation and Inspection Report December 16, 2014. On December 17, 2014, after a storm event, the City inspected the Site and observed workers power washing a City of San Diego street south of the Site to remove accumulated sediment discharged from the Site. See Exhibit No. 10, City Contractor Report December 17, 2014. On December 19, 2014, the San Diego Water Board issued Notice of Violation No. R9-2014-0153 to the Discharger, and requested a written response to confirm that the violations were corrected. See Exhibit No. 11, NOV No. R9-2014-0153. On December 31, 2014, after a storm event, the City documented another discharge from the Site. See Exhibit No. 12, City Contractor Report December 31, 2014.

January 2015: The City lifted the Site's Stop Work Order on January 22, 2015, after the Discharger corrected the bulk of the violations.

March 2015: The City documented Discharger BMP violations on March 18, 2015; including discharges of cement to the ground for which the City fined the Discharger \$1,000. See Exhibit No. 13, City Inspection Report March 18, 2015; and Exhibit No. 14, City Administrative Citation March 19, 2015. The City noted continued BMP violations on March 23 and 24, 2015, and issued a \$1,000 Administrative Citation for the discharge of cement to the ground. See Exhibit No. 15, City Inspection Report March 24, 2015; and Exhibit No. 16, City Administrative Citation March 24, 2015. On March 27, 2015, San Diego Water Board staff during an inspection found that the Discharger had implemented corrective actions that largely addressed the violations noted in Notice of Violation No. R9-2015-0153.



April 2015: The City issued the Discharger a second \$1,000 fine for cement discharges to the ground. See Exhibit No. 17, City Administrative Citation April 1, 2015.

May 2015: On the morning of May 8, 2015, San Diego Water Board staff advised the Discharger that an Administrative Civil Liability was being considered. On the evening of May 8, 2015, San Diego Water Board staff documented a sediment discharge from the Site into Encanto Channel, as well as other BMP violations. See Exhibit No. 18, San Diego Water Board Inspection Report May 8, 2015. On May 12, 2015, the San Diego Water Board provided the Site Superintendent with the May 8, 2015, inspection report. San Diego Water Board staff documented additional Site BMP violations on May 13, 2015. See Exhibit No. 19, San Diego Water Board Inspection Report May 13, 2015. On May 14, 2015, San Diego Water Board staff spoke by telephone with the Site Superintendent about the approaching storm event, the inadequacy of existing Site BMPs, the strong likelihood of an administrative civil liability, and that San Diego Water Board staff would inspect the Site again on May 15, 2015. On May 15, 2015, after a storm event, San Diego Water Board staff documented additional BMP violations at the Site. See Exhibit No. 20, San Diego Water Board Inspection Report May 15, 2015.

June through October 2015: The City inspected the site once in June and once in July 2015. The City characterizes the Site as "High Priority" and returned to inspecting the Site every other week beginning in September 2015. The City issued a \$1,000 Administrative Citation to the Discharger for discharging sediment from the Site into Encanto Channel and for failing to have adequate BMPs during an inspection on September 15, 2015. See Exhibit No. 21, City Administrative Citation September 22, 2015; and Exhibit No. 22, City Inspection Report September 15, 2015. On September 17, 2015, the City sent letters warning all active construction sites within the City that failure to implement effective BMPs may result in City, State or Federal penalties. The City issued another \$1,000 Administrative Citation on October 5, 2015, for inadequate erosion control BMPs. See Exhibit No. 23, City Administrative Citation October 5, 2015. The City found BMP deficiencies in every inspection since May 2015; erosion control BMP deficiencies were the most prevalent.

## II. ALLEGED VIOLATIONS

The following allegations against the Discharger are the basis for assessing administrative civil liability pursuant to Water Code section 13385, and also appear in the Complaint:

### A. Violation No. 1: Unauthorized Discharge of Sediment. (6 Days)

The Discharger discharged pollutants to waters of the United States without filing a Report of Waste Discharge as required under Water Code section 13376. Pursuant to section III.B. of the Construction Storm Water Permit, “[a]ll discharges are prohibited except for storm water and non-storm water discharges specifically authorized by [the Construction Storm Water Permit].” Furthermore, pursuant to section III.A. of the Construction Storm Water Permit, “[d]ischargers shall not violate any discharge prohibitions contained in applicable Basin Plans or statewide water quality control plans.” Waste Discharge Prohibition No. 8 in Chapter 4 of the Basin Plan prohibits discharges to the storm water conveyance system that are not composed entirely of storm water. In addition, pursuant to section V.A.2. and Attachment D, section A.1.b. of the Construction Storm Water Permit, “[d]ischargers shall minimize or prevent pollutants in storm water discharges and authorized non-storm water discharges through the use of controls, structures, and management practices that achieve BAT for toxic and non-conventional pollutants and BCT for conventional pollutants.”

Sediment-laden water was discharged from the Site into Encanto Channel and Chollas Creek on December 4, 12, 17, 31, 2014, May 8, 2015, and September 15, 2015. See Figure 2. May 8, 2015, Sediment Discharge. The violations were noted in the following documents: City Stop Work Notice December 4, 2014 (Exhibit No. 3); City Administrative Citation December 15, 2014 (Exhibit No. 7), and San Diego Water Board Inspection Report December 15, 2014 (Exhibit No. 8); City Contractor Report December 17, 2014 (Exhibit No. 10); City Contractor Report December 31, 2014 (Exhibit No. 12); in photographs and text in San Diego Water Board Inspection Report May 8, 2015 (Exhibit No. 18), and City Administrative Citation September 15, 2015 (Exhibit No. 21). The discharges into Encanto Channel and Chollas Creek were unauthorized and a violation of the Construction Storm Water Permit section III.B. because the Discharger failed to reduce or eliminate the pollutants in the storm water runoff prior to discharge (i.e., to implement BMPs that achieve BAT and BCT).



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**Figure 2. May 8, 2015, Sediment Discharge.** View of sediment in street (Orlando Drive) after storm event. Photograph taken by Frank Melbourne, San Diego Water Board. 20150508\_191716.jpg

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- B. Violation No. 2: Failure to Implement Material Stockpile BMPs. (10 days)**  
Pursuant to section B.1.b. in Attachment D to the Construction Storm Water Permit, dischargers are required to “[c]over and berm loose stockpiled construction materials that are not actively being used (i.e. soil, spoils, aggregate, fly-ash, stucco, hydrated lime, etc.).”



The Discharger was in violation of section B.1.b. for 10 days; from December 2 through 8, 2014, December 15, 2014, May 13, 2015, and September 15, 2015. See Figure 3. Failure to implement material stockpile BMPs. The violations were noted in the following documents: City Stop Work Notice December 2, 2014 (Exhibit No. 2); City Stop Work Notice December 4, 2014 (Exhibit No. 3); City Inspection Report December 8, 2014 (Exhibit No. 4); San Diego Water Board Inspection Report December 15, 2014 (Exhibit No. 8); San Diego Water Board Inspection Report May 13, 2015 (Exhibit No. 19), and City Inspection Report September 15, 2015 (Exhibit No. 22).



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**Figure 3. Failure to implement material stockpile BMPs.** Photograph taken by the City of Lemon Grove on December 2, 2014.

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**C. Violation No. 3: Failure to Implement Vehicle Fluid Leak BMPs. (2 days)**

Pursuant to section B.3.a. in Attachment D to the Construction Storm Water Permit, dischargers are required to “[p]revent oil, grease, or fuel to leak in to the ground, storm drains or surface waters.” The Discharger was in violation of section B.3.a. for two days: December 15, 2014; and May 13, 2015. See Figure 4. Failure to have vehicle fluid leak protection. The violations were noted in the following documents: San Diego Water Board Inspection Report December 15, 2014 (Exhibit No. 8); and San Diego Water Board Inspection Report May 13, 2015 (Exhibit No. 19).



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**Figure 4. Failure to have vehicle fluid leak protection.** Photograph taken by Wayne Chiu, San Diego Water Board on December 15, 2014, of heavy equipment without vehicle fluid leak protection. IMG\_5064.jpg

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**D. Violation No. 4: Failure to Implement Erosion Control BMPs in Inactive Areas. (22 days)**

Pursuant to section D.2. in Attachment D to the Construction Storm Water Permit, dischargers are required to *“provide effective soil cover for inactive areas and all finished slopes, open space, utility backfill, and completed lots.”* The Discharger was in violation of section B.2. for 22 days: 9 days (December 1 through 9, 2014); 2 days (December 15 through 16, 2014); 1 day (January 6, 2015); 1 day (January 14, 2015); 8 days (May 8 through 15, 2015), and 1 day (September 15, 2015). See Figure 5. Failure to implement erosion control BMPs on inactive areas.

The violations were noted in the following documents: in photographs and text in City Stop Work Notice December 2, 2014 (Exhibit No. 2); City Stop Work Notice December 4, 2014 (Exhibit No. 3); City Inspection Report December 8, 2014 (Exhibit No. 4); City Inspection Report December 16, 2014 (Exhibit No. 9); City Contractor Report January 16, 2015 (Exhibit No. 24); San Diego Water Board Inspection Report December 15, 2014 (Exhibit No. 8); City Inspection Report January 6, 2015 (Exhibit No. 25); City Inspection Report January 14, 2015 (Exhibit No. 26); San Diego Water Board Inspection Report May 8, 2015 (Exhibit No. 18); San Diego Water Board Inspection Report May 13, 2015 (Exhibit No. 19); San Diego Water Board Inspection Report May 15, 2015 (Exhibit No. 20), and City Inspection Report September 15, 2015 (Exhibit No. 22).



**Figure 5. Failure to implement erosion control BMPs on inactive areas.**

Photograph taken by Wayne Chiu, San Diego Water Board on December 15, 2014, of housing pad without erosion control BMPs. Note the erosion rills. IMG\_5061.jpg



**E. Violation No. 5: Failure to Implement Perimeter Sediment Control BMPs.  
(14 days)**

Pursuant to section E.1. in Attachment D to the Construction Storm Water Permit, dischargers are required to “*establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from the site.*” The Discharger was in violation of section E.1. for 14 days: 5 days (December 4 through 8, 2014); 2 days (December 15 through 16, 2014); 6 days (May 8 through 13, 2015), and 1 day (September 15, 2015). See Figure 6. Failure to implement perimeter sediment control BMPs. The violations were noted in the following documents: in photographs and text in City Stop Work Notice December 4, 2014 (Exhibit No. 3); City Inspection Report December 8, 2014 (Exhibit No. 4); San Diego Water Board Inspection Report December 15, 2014 (Exhibit No. 8); City Inspection Report December 16, 2014 (Exhibit No. 9); San Diego Water Board Inspection Report May 8, 2015 (Exhibit No. 18); San Diego Water Board Inspection Report May 13, 2015 (Exhibit No. 19), and City Inspection Report September 15, 2015 (Exhibit No. 21).



**Figure 6. Failure to implement perimeter sediment control BMPs.** Photograph taken by Frank Melbourn, San Diego Water Board on May 8, 2015, of gap (identified by red arrow) in perimeter sediment control BMPs that resulted in sediment discharge to Encanto Channel. 20150508\_192234.jpg



**F. Violation No. 6: Failure to Implement Erosion Control BMPs in Active Areas. (22 days)**

Pursuant to section E.3. in Attachment D to the Construction Storm Water Permit, dischargers are required to *"implement appropriate erosion control BMPs (runoff control and soil stabilization) in conjunction with sediment control BMPs for areas under active construction."* The Discharger was in violation of section E.3. for 22 days: 8 days (December 1 through 8, 2014); 2 days (December 15 through 16, 2014); 1 day (January 6, 2015); 2 days (March 23 through 24, 2015); 8 days (May 8 through 15, 2015), and 1 day (September 15, 2015). See Figure 7. Lack of erosion control BMPs in active areas. The violations were noted in the following documents: in photographs and text in City Stop Work Notice December 2, 2014 (Exhibit No. 2); City Stop Work Notice December 4, 2014 (Exhibit No. 3); in photograph in City Inspection Report December 8, 2014 (Exhibit No. 4); San Diego Water Board Inspection Report December 15, 2014 (Exhibit No. 8); City Inspection Report December 16, 2014 (Exhibit No. 9); City Contractor Report January 16, 2015 (Exhibit No. 24); in photograph in City Administrative Citation March 24, 2015 (Exhibit No. 16); in photograph in San Diego Water Board Inspection Report May 8, 2015 (Exhibit No. 18); San Diego Water Board Inspection Report May 13, 2015 (Exhibit No. 19); San Diego Water Board Inspection Report May 15, 2015 (Exhibit No. 20), and City Inspection Report September 15, 2015 (Exhibit No. 22).



**Figure 7. Lack of erosion control BMPs in active areas.** Photograph on May 15, 2015, of muddy thoroughfare (Tangelos Place) lacking erosion control BMPs after rain event. Photograph taken by Frank Melbourn, San Diego Water Board.  
IMG\_0354.jpg



**G. Violation No. 7: Failure to Apply Linear Sediment Controls. (9 days)**

Pursuant to section E.4. in Attachment D to the Construction Storm Water Permit, dischargers are required to “*apply linear sediment controls along toe of slope, face of the slope, and at the grade breaks of exposed slopes to comply with the sheet flow lengths in accordance with Table 1.*” The Discharger was in violation of section E.4. for nine days: 2 days (December 15 through 16, 2014); 6 days (May 8 through 13, 2015), and 1 day (September 15, 2015). See Figure 8. Failure to apply linear sediment controls. The violations were noted in the following documents: San Diego Water Board Inspection Report December 15, 2014 (Exhibit No. 8); City Inspection Report December 16, 2014 (Exhibit No. 9); San Diego Water Board Inspection Report May 8, 2015 (Exhibit No. 18); San Diego Water Board Inspection Report May 13, 2015 (Exhibit No. 19), and City Inspection Report September 15, 2015 (Exhibit No. 22).



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**Figure 8. Failure to apply linear sediment controls.** Photograph taken by Wayne Chiu, San Diego Water Board, on December 15, 2014, depicting the lack of linear sediment controls on a slope. IMG\_5035.jpg

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**H. Violation No. 8: Failure to Manage Run-On and Runoff. (7 days)**

Pursuant to section F. in Attachment D to the Construction Storm Water Permit, dischargers are required to “effectively manage all run-on, all runoff within the site and all runoff that discharges off the site. Run-on from off site shall be directed away from all disturbed areas or shall be collectively be in compliance with the effluent limitations in this General Permit.” The Discharger was in violation of section F. for seven days: 1 day (December 15, 2014); and 6 days (May 8 through 13, 2015). See Figure 9. Failure to manage run-on and runoff. The violations were noted in the following documents: San Diego Water Board Inspection Report December 15, 2014 (Exhibit No. 8); San Diego Water Board Inspection Report May 8, 2015 (Exhibit No. 18); and San Diego Water Board Inspection Report May 13, 2015 (Exhibit No. 19).



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**Figure 9. Failure to manage run-on and runoff.** Photograph taken by Wayne Chiu, San Diego Water Board on December 15, 2014, displaying erosion caused by runoff flowing under fence and offsite. IMG\_5042.jpg.

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**I. Violation No. 9: Failure to Remove Sediment or Other Construction Materials from Roads. (10 days)**

Pursuant to section E.7. in Attachment D to the Construction Storm Water Permit, dischargers are required *“at a minimum daily (when necessary) and prior to any rain event, the discharger shall remove any sediment or other construction activity-related materials that are deposited on the roads (by vacuuming or sweeping).”* The Discharger was in violation of section E.7. for 10 days: 8 days (December 2 through 9, 2014) December 16, 2014, and September 15, 2015.

See Figure 10. Failure to remove sediment from roads. The violations were noted in the City Stop Work Notice December 2, 2014 (Exhibit No. 2); in City photographs from December 4, 2014; City Inspection Report December 8, 2014 (Exhibit No. 4); City Inspection Report December 9, 2014 (Exhibit No. 5); City Inspection Report December 16, 2014 (Exhibit No. 9), and City Inspection Report September 15, 2015 (Exhibit No. 22).



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**Figure 10. Failure to remove sediment from roads.** Photograph taken by the City of Lemon Grove on December 4, 2014, depicting sediment on Akins Avenue southwest of the Site.

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**J. Violation No. 10: Failure to Protect Storm Drain Inlets. (3 days)**

Pursuant to section E.6. in Attachment D to the Construction Storm Water Permit, dischargers “shall ensure that all storm drain inlets and perimeter controls, runoff control BMPs, and pollutant controls at entrances and exits (e.g. tire washoff locations) are maintained and protected from activities that reduce their effectiveness.” The Discharger was in violation of section E.6. for three days: December 8, 2014; May 13, 2015, and September 15, 2015. See Figure 11. Failure to protect storm drain inlets. The violation was noted in the City Inspection Report December 8, 2014 (Exhibit No. 4); in San Diego Water Board photographs from May 13, 2015 (Exhibit No. 19), and City Inspection Report September 15, 2015 (Exhibit No. 22).



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**Figure 11. Failure to protect storm drain inlets.** Photograph taken by Frank Melbourn, San Diego Water Board on May 13, 2015, displaying unprotected storm drain inlet. IMG\_0295.jpg.

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**K. Violation No. 11: Failure to Contain and Securely Protect Stockpiled Waste Material from Wind and Rain. (9 days)**

Pursuant to section B.2.f. in Attachment D to the Construction Storm Water Permit, dischargers are required to “[c]ontain and securely protect stockpiled waste material from wind and rain at all times unless actively being used.” The Discharger was in violation of section B.2.f. for nine days (January 6 through 14, 2015). The violations were noted in the following documents: City Inspection Report January 6, 2015 (Exhibit No. 25); and City Inspection Report January 14, 2015 (Exhibit No. 26).

**L. Violation No. 12: Failure to Properly Store Chemicals. (7 days)**

Pursuant to section B.1.c. in Attachment D to the Construction Storm Water Permit, dischargers are required to “[s]tore chemicals in watertight containers (with appropriate secondary containment to prevent any spillage or leakage) or in a storage shed (completely enclosed).” The Discharger was in violation of section B.1.c. for seven days (March 18 through 24, 2015). See Figure 12. Failure to properly store chemicals. The violations were noted in the following documents: City Inspection Report March 18, 2015 (Exhibit No. 13); and City Correct Work Notice March 24, 2015 (Exhibit No. 15).



**Figure 12. Failure to properly store chemicals.** Photograph taken by the City of Lemon Grove on March 24, 2015, depicting chemicals and vehicle lubricants stored on pallets without protection from the elements and without secondary containment.



**M. Violation No. 13: Failure to Prevent Discharge of Concrete Waste to the Ground. (15 days)**

Pursuant to section B.2.i. in Attachment D to the Construction Storm Water Permit, dischargers are required to “[e]nsure the containment of concrete washout areas and other washout areas that may contain additional pollutants so there is no discharge into the underlying soil and onto the surrounding areas.”

The Discharger was in violation of section B.2.i. for 15 days (March 18 through April 1, 2015). See Figure 13. Failure to prevent discharge of concrete waste to the ground. The violations were noted in the following documents: City Administrative Citation March 19, 2015 (Exhibit No. 14); City Administrative Citation March 24, 2015 (Exhibit No. 16); and City Administrative Citation April 1, 2015 (Exhibit No. 17).



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**Figure 13. Failure to prevent the discharge of concrete waste to the ground.** Photograph taken by the City of Lemon Grove on March 24, 2015, depicting discharge of concrete waste on slope (identified by red circle).

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### III. LIABILITY CALCULATIONS

#### A. Determination of Administrative Civil Liability

An administrative civil liability may be imposed pursuant to the procedures in Water Code section 13323. The Complaint alleges the act(s) or failure to act that constitutes a violation of law, the provision of law authorizing civil liability, and the proposed civil liability. Pursuant to the relevant portions of Water Code section 13385(a):

*A person who violates any of the following shall be liable civilly in accordance with this section:*

- (1) Section 13375 or 13376.*
- (2) A waste discharge requirement or dredged or fill material permit issued pursuant to this chapter or any water quality certification issued pursuant to Section 13160.*
- (3) A requirement established pursuant to section 13383.*

Furthermore, Water Code section 13385 (c) provides that:

*Civil liability may be imposed administratively by the state board or a regional board pursuant to Article 2.5 (commencing with section 13323) of Chapter 5 in an amount not to exceed the sum of both of the following:*

- (1) Ten thousand dollars (\$10,000) for each day in which the violation occurs.*
- (2) Where there is a discharge, any portion of which is not susceptible to cleanup or is not cleaned up, and the volume discharged but not cleaned up exceeds 1,000 gallons, an additional liability not to exceed ten dollars (\$10) multiplied by the number of gallons by which the volume discharged but not cleaned up exceeds 1,000 gallons.*

Water Code section 13385(e) requires the consideration of several factors when determining the amount of civil liability to impose. These factors include:

*...the nature, circumstances, extent, and gravity of the violation or violations, whether the discharge is susceptible to cleanup or abatement, the degree of toxicity of the discharge, and, with respect to the violator, the ability to pay, the effect on its ability to continue its business, any voluntary cleanup efforts undertaken, any prior history of violations, the degree of culpability, economic benefit or savings, if any, resulting from the violation, and other matters that justice may require. At a minimum, liability shall be assessed at a level that recovers the economic benefits, if any, derived from the acts that constitute the violation.*

**B. State Water Board Enforcement Policy**

On November 17, 2009, the State Water Board adopted Resolution No. 2009-0083 amending the Water Quality Enforcement Policy (Enforcement Policy). The Enforcement Policy was approved by the Office of Administrative Law and became effective on May 20, 2010. The Enforcement Policy establishes a methodology for assessing administrative civil liability. Use of the methodology addresses the factors in Water Code section 13385(e). The liability calculation methodology enables the Regional Water Boards to fairly and consistently implement liability provisions of the Water Code for maximum enforcement impact to address, correct, and deter water quality violations.

Pursuant to the Enforcement Policy, Regional Water Boards determine an initial liability factor based on the Potential for Harm and the extent of Deviation from Requirements for a violation. Regional Water Boards may then use three adjustment factors for modification of the initial liability amount. These factors are Culpability, Cleanup and Cooperation, and History of Violations. The initial liability amount can be increased or decreased based on these adjustment factors. Additional adjustments may be used regarding multiple violations resulting from the same incident and multiple day violations.

**C. Proposed Base Civil Liabilities for Alleged Violations**

This section provides the recommendations for the proposed base civil liabilities for each of the alleged violations discussed in Section II, developed in accordance with the procedures in the Enforcement Policy methodology. A summary of the information and factors used to develop the proposed base civil liabilities for each of the violations are provided in Exhibit No. 27, Penalty Methodology Summary.

**1. Violation No. 1: Unauthorized Discharge of Sediment.**

**STEP 1 - Potential for Harm for Discharge Violations (Violation No. 1)**

The Potential for Harm for Discharge Violations is determined by using a three-factor scoring system to quantify: (1) the potential for harm to beneficial uses; (2) the degree of toxicity of the discharge; and (3) the discharge's susceptibility to cleanup or abatement. The determination of these three factors and the final score are discussed below.

***Factor 1: Harm or Potential Harm to Beneficial Uses***

A score between 0 and 5 is assigned in accordance with the statutory factors of the nature, circumstances, extent, and gravity of the violation, based on a determination of whether the harm or potential for harm is negligible (0), minor (1), below moderate (2), moderate (3), above moderate (4), or major (5).

The San Diego Water Board Prosecution Team (Prosecution Team) assigned a score of **3**. The Enforcement Policy defines a score of **3** as a *"moderate threat to beneficial uses (i.e., impacts are observed or reasonably expected and impacts to beneficial uses are moderate and likely to attenuate without appreciable acute or chronic effects)."* A score of **3** was selected because:

- a. Sediment, the primary storm water pollutant from construction sites, was indirectly discharged into Chollas Creek.
- b. Chollas Creek is designated as an impaired water body for dissolved metals (copper, lead, and zinc) pursuant to Clean Water Act section 303(d). Storm water runoff containing sediment discharged from the Site likely transported other pollutants such as metals; therefore it is reasonable to state that the unauthorized discharge further degraded the already impaired waters of Chollas Creek.
- c. Sediment discharges from the Site into Chollas Creek are reasonably expected to have a negative impact on its beneficial uses (REC-1, REC-2, WARM, and WILD). However the discharges are likely to attenuate without appreciable acute and chronic effects.

***Factor 2: The Physical, Chemical, Biological or Thermal Characteristics of the Discharge***

A score between 0 and 4 is assigned based on a determination of whether the discharged material poses a negligible (0), minor (1), moderate (2), above moderate (3), or major (4) risk or threat to potential receptors. "Potential receptors" are those identified considering human, environmental and ecosystem health exposure pathways.

The Prosecution Team assigned a score of **2**. The Enforcement Policy defines a score of **2** as "[d]ischarged material poses a moderate risk or threat to potential receptors (i.e. the chemical and/or physical characteristics of the discharged material have some level of toxicity or pose a moderate level of concern regarding receptor protection)." A score of **2** was selected because:

- a. Sediment discharges can adversely impact the physical quality of in-stream waterways by altering or obstructing flows and affecting existing riparian functions.
- b. Sediment acts as a binding carrier to other toxic constituents like metals and organic contaminants (i.e., pesticides and PCBs).
- c. Sediment discharges typically increase receiving water turbidity levels which have an adverse impact on the quality of receiving waters and the ability to support habitat related beneficial uses by reducing visibility and interfering with biotic feeding and reproduction.
- d. Sediment discharges cause acute effects on the invertebrate aquatic community (e.g., it can be lethal when the benthic community is buried in sediment).

***Factor 3: Susceptibility to Cleanup and Abatement***

A score of 0 is assigned if 50 percent or more of the discharge is susceptible to cleanup or abatement. A score of 1 is assigned if less than 50 percent of the discharge is susceptible to cleanup or abatement.

The Prosecution Team assigned a score of **1**. A score of **1** was selected because the San Diego Water Board determined that less than 50 percent of the unauthorized discharges of sediment and sediment laden water to Encanto Channel and Chollas Creek was susceptible to cleanup or abatement.

***FINAL SCORE – “Potential for Harm”***

The Potential for Harm for Discharge Violations is the sum of Factors 1, 2, and 3. Based on the determinations above, the final Potential for Harm score is **6** ( $3 + 2 + 1$ ).

**STEP 2 – Assessment for Discharge Violations (Violation No. 1)**

According to Water Code section 13385, a Regional Water Board may impose civil liability on a per day basis, a per gallon basis, or both. Due to the difficulty in accurately determining the volume of unauthorized discharges from the Site, civil liability was only calculated on a per day basis for the violation.

Per day assessments for discharge violations are determined based on the final Potential for Harm score and the extent of the Deviation from Requirement, which are used in Table 2 of the Enforcement Policy to determine the Per Day Factor. The Per Day Factor is multiplied by the Statutory Maximum Liability amount allowed under the Water Code (i.e. \$10,000 per day).

***Deviation from Requirement***

The Deviation from Requirement is based on a determination of whether the intended effectiveness of the requirement “remains generally intact” (Minor), “has been partially compromised” (Moderate), or “rendered ineffective” (Major). The Enforcement Policy defines a Major “Deviation from Requirement” as “[t]he requirement has been rendered ineffective (e.g., discharger disregards the requirement, and/or the requirement is rendered ineffective in its essential functions).”

The Prosecution Team has determined that the Deviation from Requirement is **Major** because the Construction Storm Water Permit prohibits all discharges except for storm water and non-storm water discharges specifically authorized by the permit. Only discharges that have been controlled with BMPs that achieve BAT and BCT are authorized. Because the Discharger did not implement BMPs that achieve BAT and BCT, the requirements of the Construction Storm Water Permit were “rendered ineffective.”

***Per Day Factor***

Using a Potential for Harm factor score of **6** (see Step 1) and Deviation from Requirement of **Major**, the Per Day Factor for the unauthorized discharges from the Site to Chollas Creek is **0.220** in Table 2 of the Enforcement Policy.



***Days of Discharge Violations***

Sediment laden water was discharged from the Site into Encanto Channel and Chollas Creek on December 4, 12, 17, 31, 2014, May 8, 2015, and September 15, 2015. Therefore, there were six days of discharge.

**STEP 3 – Per Day Assessment of Non-Discharge Violations (Violation No. 1)**

Step 3 does not apply to Discharge Violations

**STEP 4 – Adjustment Factors (Violation No. 1)**

There are three additional factors that are considered for modification of the amount of the initial liability: the Discharger's Culpability, the Discharger's efforts for Cleanup and Cooperation after the violation, and the Discharger's History of Violations. These three factors are discussed below.

***Culpability***

An adjustment for the initial liability based on the Discharger's Culpability should result in a multiplier between 0.5 to 1.5, with a lower multiplier for accidental or non-negligent violations, and a higher multiplier for intentional or negligent violations. The test is what a reasonable and prudent person would have done or not done under similar circumstances. The Prosecution Team assigned a Culpability multiplier of **1.3** for this violation because the Discharger either intentionally or due to negligence did not implement BMPs that achieve BAT and BCT, which resulted in the unauthorized discharges from the Site. The Discharger was informed by the City and the San Diego Water Board in writing various times that the Site's BMPs were inadequate. A reasonable person would have corrected the deficient BMPs to prevent future discharges.

***Cleanup and Cooperation***

An adjustment for the initial liability based on the Discharger's efforts for Cleanup and Cooperation should result in a multiplier between 0.75 to 1.5, with a lower multiplier where there is a high degree of cleanup and cooperation, and a higher multiplier where this is absent. The Prosecution Team assigned a Cleanup and Cooperation multiplier of **1.1** for this violation because the Discharger in many cases ignored the BMP recommendations or took longer than 72 hours to correct deficiencies.

***History of Violations***

Where there is a history of repeat violations, a minimum multiplier of 1.1 should be used to reflect this. The Prosecution Team assigned a History of Violations multiplier of **1.0** for this violation because the Discharger does not have a history of construction storm water violations determined by this Board.

**STEP 5 – Determination of Total Base Liability Amount (Violation No. 1)**

The Total Base Liability Amount (i.e. initial amount of liability) is determined by multiplying the Per Day Assessment by the Days of Violation and then applying the adjustment factors as follows:

$$\begin{array}{l} \text{Total} \\ \text{Base} \\ \text{Liability} \end{array} = \begin{array}{l} \text{Days of} \\ \text{Violation} \end{array} \times \begin{array}{l} \text{Per Day} \\ \text{Factor} \end{array} \times \begin{array}{l} \text{Statutory} \\ \text{Maximum} \\ \text{Liability} \end{array} \times \begin{array}{l} \text{Culpability} \\ \text{Multiplier} \end{array} \times \begin{array}{l} \text{Cleanup \&} \\ \text{Cooperation} \\ \text{Multiplier} \end{array} \times \begin{array}{l} \text{History of} \\ \text{Violations} \\ \text{Multiplier} \end{array}$$
  

Total Base Liability	=	6	x	0.220	x	\$10,000	x	1.3	x	1.1	x	1.0	=	\$18,876
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**STEP 6 – Ability to Pay and Ability to Continue in Business (Violation No. 1)**

See discussion in Section III.D.

**STEP 7 – Other Factors as Justice May Require (Violation No. 1)**

See discussion in Section III.E.

**STEP 8 – Economic Benefit (Violation No. 1)**

The Discharger derived an economic benefit by not properly implementing the erosion and sediment control BMPs that are required for all construction sites. At a minimum, the Discharger should have implemented erosion control and sediment control requirements for a Risk Level 1 construction site. The estimated cost to implement effective soil cover and effective perimeter sediment controls is **\$13,500** based upon costs estimated by the San Diego Water Board. Using the US EPA BEN Model the Discharger enjoyed an economic benefit of **\$9,476**. See Exhibit No. 28, Economic Benefit Calculation and Supporting Documentation.

**STEP 9 – Maximum and Minimum Liability Amounts (Violation No. 1)**

For all violations, Water Code section 13385 sets a maximum liability amount that may be assessed for each violation. For some violations, the statute also requires the assessment of a liability at no less than a specified amount. The maximum and minimum amounts for each violation must be determined for comparison to the amounts being proposed.

***Maximum Liability Amount***

Pursuant to Water Code section 13385 the maximum civil liability that the San Diego Water Board may assess for this violation is (a) ten thousand dollars (\$10,000) per day of violation (per violation); and (b) ten dollars (\$10) for every gallon discharged, over one thousand (1,000) gallons discharged, that was not cleaned up. In this instance, the Prosecution Team is proposing the assessment of civil liability for the discharge of sediment to waters of the United States only on a per day basis based on information currently available. The Maximum Liability Amount that could be assessed for this violation is **\$10,000 per day per discharge**. Therefore, the maximum liability amount is **\$60,000** for five days of discharge.

***Minimum Liability Amount***

Water Code section 13385(e) requires that when pursuing civil liability under section 13385, "*at a minimum, liability shall be assessed at a level that recovers the economic benefit, if any, derived from the acts that constitute the violation.*" The Enforcement Policy requires that the adjusted Total Base Liability Amount be at least ten percent (10%) higher than the Economic Benefit. Therefore the Minimum Liability Amount that should be assessed for this violation is  $(1.1 \times \$9,476) = \$10,424$ .

**STEP 10 – Final Liability Amount (Violation No. 1)**

Based on the unique facts of this case, and the liability calculation methodology within Section VI of the Enforcement Policy, the proposed civil liability for **six days** of discharge in violation of the Construction Storm Water Permit is **\$18,876**, plus staff costs. The proposed liability is within the minimum and maximum liability range. See Exhibit No. 27.

**2. Violation No. 2: Failure to Implement Material Stockpile BMPs.**

**STEP 1 - Potential for Harm for Discharge Violations (Violation No. 2)**

Step 1 does not apply to Non-Discharge Violations.

**STEP 2 – Assessment for Discharge Violations (Violation No. 2)**

Step 2 does not apply to Non-Discharge Violations.

**STEP 3 – Per Day Assessment of Non-Discharge Violations (Violation No. 2)**

While non-discharge violations may not directly or immediately impact beneficial uses, they harm or undermine the regulatory program. Per day assessments of non-discharge violations are determined based on the Potential for Harm and the extent of Deviation from Requirement, which are used in Table 3 of the Enforcement Policy to determine the Per Day Factor. The Per Day Factor is multiplied by the Statutory Maximum Liability amount allowed under the Water Code (i.e. \$10,000 per day).

***Potential for Harm***

The violation poses either a Minor, Moderate, or Major threat to beneficial uses. The Potential for Harm for this violation is characterized as **Moderate**. The Enforcement Policy defines Moderate Potential for Harm as "[t]he characteristics of the violation present a substantial threat to beneficial uses, and/or the circumstances of the violation indicate a substantial potential for harm." The Prosecution Team has determined that the Potential for Harm is **Moderate** because the failure to implement adequate stockpile management BMPs poses a substantial potential for harm if there is storm water or non-storm water runoff that flows through and transports sediment from the Site to receiving waters.

***Deviation from Requirement***

The violation is characterized as either a Minor, Moderate, or Major deviation from the requirement. In this case, the Prosecution Team characterized the violation as a **Moderate** Deviation from Requirement. The Enforcement Policy defines a Moderate Deviation from Requirement as “[t]he intended effectiveness of the requirement has been partially compromised (e.g., the requirement was not met, and the effectiveness of the requirement is only partially achieved).” **Moderate** was selected because the Discharger covered only some of the material stockpiles, thus rendering the requirement only partially effective.

***Per Day Factor***

Using a Potential for Harm determination of **Moderate** and Deviation from Requirement determination of **Moderate**, the Per Day Factor for the failure to implement the stockpile management requirements is **0.35** in Table 3 of the Enforcement Policy.

***Days of Non-Discharge Violation***

According to the documentation included with this technical analysis, the Discharger was in violation of the stockpile management requirements of or B.1.b. in Attachment D to the Construction Storm Water Permit for **10 days** (December 2 through 8, 2014, December 15, 2014, May 13, 2015, and September 15, 2015).

**STEP 4 – Adjustment Factors (Violation No. 2)**

There are three additional factors that are considered for modification of the amount of the initial liability: the Discharger’s Culpability, the Discharger’s efforts for Cleanup and Cooperation after the violation, and the Discharger’s History of Violations. These three factors are discussed below.

***Culpability***

An adjustment for the initial liability based on the Discharger’s Culpability should result in a multiplier between 0.5 to 1.5, with a lower multiplier for accidental or non-negligent violations, and a higher multiplier for intentional or negligent violations. The test is what a reasonable and prudent person would have done or not done under similar circumstances. The Prosecution Team assigned a Culpability multiplier of **1.3** for this violation because the Discharger either intentionally or due to negligence did not adequately implement the stockpile management requirements. There was no reason BMPs could not reasonably have been implemented to be in compliance with the Construction Storm Water Permit.

***Cleanup and Cooperation***

An adjustment for the initial liability based on the Discharger's efforts for Cleanup and Cooperation should result in a multiplier between 0.75 to 1.5, with a lower multiplier where there is a high degree of cleanup and cooperation, and a higher multiplier where this is absent. The Prosecution Team assigned a Cleanup and Cooperation multiplier of **1.1** for this violation because the Discharger repeatedly failed to comply with the requirement over several months.

***History of Violations***

Where there is a history of repeated violations, a minimum multiplier of 1.1 should be used to reflect this. The Prosecution Team assigned a History of Violations multiplier of **1.0** for this violation because the Discharger does not have a history of construction storm water violations determined by this Board.

**STEP 5 – Determination of Total Base Liability Amount (Violation No. 2)**

The Total Base Liability Amount (i.e. initial amount of liability) is determined by multiplying the Per Day Assessment by the Days of Violation and then applying the adjustment factors as follows:

<table border="1"><tr><td>Total Base Liability</td></tr></table>	Total Base Liability	=	Days of Violation	x	Per Day Factor	x	Statutory Maximum Liability	x	Culpability Multiplier	x	Cleanup & Cooperation Multiplier	x	History of Violations Multiplier		
Total Base Liability															
<table border="1"><tr><td>Total Base Liability</td></tr></table>	Total Base Liability	=	10	x	0.35	x	\$10,000	x	1.3	x	1.1	x	1.0	= <table border="1"><tr><td>\$50,050</td></tr></table>	\$50,050
Total Base Liability															
\$50,050															

**STEP 6 – Ability to Pay and Ability to Continue in Business (Violation No. 2)**

See discussion in Section III.D.

**STEP 7 – Other Factors as Justice May Require (Violation No. 2)**

See discussion in Section III.E.

**STEP 8 – Economic Benefit (Violation No. 2)**

The Discharger derived an economic benefit by not properly implementing the stockpile management BMPs that are required for all construction sites. At a minimum, the Discharger should have properly covered and contained stockpiles on the Site before the predicted storm events. The estimated cost to properly cover and contain the stockpiles is **\$1,550** based upon costs estimated by the San Diego Water Board. Using the US EPA BEN Model the Discharger enjoyed an economic benefit of **\$1,088**. See Exhibit No. 28.

**STEP 9 – Maximum and Minimum Liability Amounts (Violation No. 2)**

For all violations, Water Code section 13385 sets a maximum liability amount that may be assessed for each violation. For some violations, the statute also requires the assessment of a liability at no less than a specified amount. The maximum and minimum amounts for each violation must be determined for comparison to the amounts being proposed.

***Maximum Liability Amount***

Pursuant to Water Code section 13385 the maximum civil liability that the San Diego Water Board may assess for this violation is ten thousand dollars (\$10,000) per day of violation (per violation). The Maximum Liability Amount that could be assessed for this violation is **\$10,000 per day**. Therefore the maximum liability amount for ten days of violation is **\$100,000**.

***Minimum Liability Amount***

Water Code section 13385(e) requires that when pursuing civil liability under section 13385, "*at a minimum, liability shall be assessed at a level that recovers the economic benefit, if any, derived from the acts that constitute the violation.*" The Enforcement Policy requires that the adjusted Total Base Liability shall be at least ten percent (10%) higher than the Economic Benefit. Therefore, the minimum liability is  $(1.1 \times \$1,088) = \mathbf{\$1,197}$ .

**STEP 10 – Final Liability Amount (Violation No. 2)**

Based on the unique facts of this case, and the liability calculation methodology within Section VI of the Enforcement Policy, the proposed civil liability for 10 days of violation of the Construction Storm Water Permit is **\$50,050**, plus staff costs. The proposed liability is within the minimum and maximum liability range. See Exhibit No. 27.

**3. Violation No. 3: Failure to Implement Vehicle Fluid Leak BMPs.**

**STEP 1 - Potential for Harm for Discharge Violations (Violation No. 3)**

Step 1 does not apply to Non-Discharge Violations.

**STEP 2 – Assessment for Discharge Violations (Violation No. 3)**

Step 2 does not apply to Non-Discharge Violations.

**STEP 3 – Per Day Assessment of Non-Discharge Violations (Violation No. 3)**

While non-discharge violations may not directly or immediately impact beneficial uses, they harm or undermine the regulatory program. Per day assessments of non-discharge violations are determined based on the Potential for Harm and the extent of Deviation from Requirement, which are used in Table 3 of the Enforcement Policy to determine the Per Day Factor. The Per Day Factor is multiplied by the Statutory Maximum Liability amount allowed under the Water Code (i.e. \$10,000 per day).

***Potential for Harm***

The Potential for Harm is based on a determination of whether the circumstances of the violation indicate “a minor potential for harm” (Minor), “a substantial potential for harm” (Moderate), or “a very high potential for harm” (Major). The Potential for Harm for this violation was characterized as **Moderate**. The Enforcement Policy defines Moderate Potential for Harm as “[t]he characteristics of the violation present a substantial threat to beneficial uses, and/or the circumstances of the violation indicate a substantial potential for harm. The Prosecution Team has determined that the Potential for Harm is **Moderate** because the failure to implement adequate vehicle storage and maintenance BMPs poses a substantial potential for harm if there is storm water or non-storm water runoff that flows through and transports oil, grease, or fuel from the Site to receiving waters.

***Deviation from Requirement***

The Deviation from Requirement is based on a determination of whether the intended effectiveness of the requirement “remains generally intact” (Minor), “has been partially compromised” (Moderate), or “rendered ineffective” (Major). The Enforcement Policy defines a Major “Deviation from Requirement” as “[t]he requirement has been rendered ineffective (e.g., discharger disregards the requirement, and/or the requirement is rendered ineffective in its essential functions).” The Prosecution Team has determined that the Deviation from Requirement is **Major** because the Discharger failed to provide drip pans for vehicles stored on the Site, thus rendering the requirement ineffective.

***Per Day Factor***

Using a Potential for Harm determination of **Moderate** and Deviation from Requirement determination of **Major**, the Per Day Factor for the failure to implement vehicle fluid leak BMPs is **0.55** in Table 3 of the Enforcement Policy.

***Days of Non-Discharge Violation***

According to the documentation included with this technical analysis, the Discharger was in violation of the vehicle storage and maintenance requirements of Sections B.3.a. in Attachment D to the Construction Storm Water Permit for **2 days** (December 15, 2014, and May 13, 2015).

**STEP 4 – Adjustment Factors (Violation No. 3)**

There are three additional factors that are considered for modification of the amount of the initial liability: the Discharger’s Culpability, the Discharger’s efforts for Cleanup and Cooperation after the violation, and the Discharger’s History of Violations. These three factors are discussed below.

***Culpability***

An adjustment for the initial liability based on the Discharger's Culpability should result in a multiplier between 0.5 to 1.5, with a lower multiplier for accidental or non-negligent violations, and a higher multiplier for intentional or negligent violations. The test is what a reasonable and prudent person would have done or not done under similar circumstances. The Prosecution Team assigned a Culpability multiplier of **1.3** for this violation because the Discharger either intentionally or due to negligence did not adequately implement the vehicle storage and maintenance requirements. There was no reason BMPs could not reasonably have been implemented to be in compliance with the Construction Storm Water Permit.

***Cleanup and Cooperation***

An adjustment for the initial liability based on the Discharger's efforts for Cleanup and Cooperation should result in a multiplier between 0.75 to 1.5, with a lower multiplier where there is a high degree of cleanup and cooperation, and a higher multiplier where this is absent. The Prosecution Team assigned a Cleanup and Cooperation multiplier of **1.1** for this violation because the Discharger failed to comply with the requirement twice over several months.

***History of Violations***

Where there is a history of repeated violations, a minimum multiplier of 1.1 should be used to reflect this. The Prosecution Team assigned a History of Violations multiplier of **1.0** for this violation because the Discharger does not have a history of construction storm water violations determined by this Board.

**STEP 5 – Determination of Total Base Liability Amount (Violation No. 3)**

The Total Base Liability Amount (i.e. initial amount of liability) is determined by multiplying the Per Day Assessment by the Days of Violation and then applying the adjustment factors as follows:

Total Base Liability	=	Days of Violation	x	Per Day Factor	x	Statutory Maximum Liability	x	Culpability Multiplier	x	Cleanup & Cooperation Multiplier	x	History of Violations Multiplier	
Total Base Liability	=	2	x	0.55	x	\$10,000	x	1.3	x	1.1	x	1.0	= \$15,730

**STEP 6 – Ability to Pay and Ability to Continue in Business (Violation No. 3)**

See discussion in Section III.D.

**STEP 7 – Other Factors as Justice May Require (Violation No. 3)**

See discussion in Section III.E.



**STEP 8 – Economic Benefit (Violation No. 3)**

The Discharger derived an economic benefit by not properly implementing the vehicle storage and maintenance BMPs that are required. At a minimum, the Discharger should have provided drip pans for construction equipment stored on the Site. The estimated cost to provide drip pans for construction vehicles on the Site is **\$1,286** based upon costs estimated by the San Diego Water Board. Using the US EPA BEN Model the Discharger enjoyed an economic benefit of **\$823**. See Exhibit No. 27.

**STEP 9 – Maximum and Minimum Liability Amounts (Violation No. 3)**

For all violations, Water Code section 13385 sets a maximum liability amount that may be assessed for each violation. For some violations, the statute also requires the assessment of a liability at no less than a specified amount. The maximum and minimum amounts for each violation must be determined for comparison to the amounts being proposed.

***Maximum Liability Amount***

Pursuant to Water Code section 13385 the maximum civil liability that the San Diego Water Board may assess for this violation is ten thousand dollars (\$10,000) per day of violation (per violation). The Maximum Liability Amount that could be assessed for this violation is **\$10,000 per day of violation**. Therefore the maximum liability amount is **\$20,000**.

***Minimum Liability Amount***

Water Code section 13385(e) requires that when pursuing civil liability under section 13385, "*at a minimum, liability shall be assessed at a level that recovers the economic benefit, if any, derived from the acts that constitute the violation.*" The Enforcement Policy requires that the adjusted Total Base Liability shall be at least ten percent (10%) higher than the Economic Benefit. Therefore, the minimum liability is  $(1.1 \times \$823) = \$905$ .

**STEP 10 – Final Liability Amount (Violation No. 3)**

Based on the unique facts of this case, and the liability calculation methodology within Section VI of the Enforcement Policy, the proposed civil liability for failing to adequately implement vehicle storage and maintenance requirements for **two days** in violation of the Construction Storm Water Permit is **\$15,730**, plus staff costs. The proposed liability is within the minimum and maximum liability range.

**4. Violation No. 4: Failure to Implement Erosion Control BMPs in Inactive Areas.**

**STEP 1 - Potential for Harm for Discharge Violations (Violation No. 4)**

Step 1 does not apply to Non-Discharge Violations.

**STEP 2 – Assessment for Discharge Violations (Violation No. 4)**

Step 2 does not apply to Non-Discharge Violations.

**STEP 3 – Per Day Assessment of Non-Discharge Violations (Violation No. 4)**

While non-discharge violations may not directly or immediately impact beneficial uses, they harm or undermine the regulatory program. Per day assessments of non-discharge violations are determined based on the Potential for Harm and the extent of Deviation from Requirement, which are used in Table 3 of the Enforcement Policy to determine the Per Day Factor. The Per Day Factor is multiplied by the Statutory Maximum Liability amount allowed under the Water Code (i.e. \$10,000 per day).

***Potential for Harm***

The Potential for Harm is based on a determination of whether the circumstances of the violation indicate “a minor potential for harm” (Minor), “a substantial potential for harm” (Moderate), or “a very high potential for harm” (Major). The Potential for Harm for this violation was characterized as **Moderate**. The Enforcement Policy defines Moderate Potential for Harm as “[t]he characteristics of the violation present a substantial threat to beneficial uses, and/or the circumstances of the violation indicate a substantial potential for harm. The Prosecution Team has determined that the Potential for Harm is **Moderate** because the failure to implement adequate erosion control BMPs poses a substantial potential for harm if there is storm water or non-storm water runoff that flows through the Site and erodes exposed soil areas which generates sediment that can be transported in runoff to receiving waters.

***Deviation from Requirement***

The Deviation from Requirement is based on a determination of whether the intended effectiveness of the requirement “remains generally intact” (Minor), “has been partially compromised” (Moderate), or “rendered ineffective” (Major). The Enforcement Policy defines a Major “Deviation from Requirement” as “[t]he requirement has been rendered ineffective (e.g., discharger disregards the requirement, and/or the requirement is rendered ineffective in its essential functions).” The Prosecution Team has determined that the Deviation from Requirement is **Major** because San Diego Water Board and City inspectors consistently found inactive areas without erosion control BMPs.

***Per Day Factor***

Using a Potential for Harm determination of **Moderate** and Deviation from Requirement determination of **Major**, the Per Day Factor for the failure to implement erosion control BMPs on inactive areas is **0.55** in Table 3 of the Enforcement Policy.

***Days of Non-Discharge Violation***

According to the documentation included with this technical analysis, the Discharger was in violation of the erosion control requirements of Section D.2. in Attachment D to the Construction Storm Water Permit for a period of **22 days**: 9 days (December 1 through 9, 2014); 2 days (December 15 through 16, 2014); 1 day (January 6, 2015); 1 day (January 14, 2015); 8 days (May 8 through 15, 2015), and 1 day (September 15, 2015).

**STEP 4 – Adjustment Factors (Violation No. 4)**

There are three additional factors that are considered for modification of the amount of the initial liability: the Discharger's Culpability, the Discharger's efforts for Cleanup and Cooperation after the violation, and the Discharger's History of Violations. These three factors are discussed below.

***Culpability***

An adjustment for the initial liability based on the Discharger's Culpability should result in a multiplier between 0.5 to 1.5, with a lower multiplier for accidental or non-negligent violations, and a higher multiplier for intentional or negligent violations. The test is what a reasonable and prudent person would have done or not done under similar circumstances. The Prosecution Team assigned a Culpability multiplier of **1.3** for this violation because the Discharger either intentionally or due to negligence did not adequately implement the erosion control requirements for inactive areas of the Site. There was no reason BMPs could not reasonably have been implemented to be in compliance with the Construction Storm Water Permit.

***Cleanup and Cooperation***

An adjustment for the initial liability based on the Discharger's efforts for Cleanup and Cooperation should result in a multiplier between 0.75 to 1.5, with a lower multiplier where there is a high degree of cleanup and cooperation, and a higher multiplier where this is absent. The Prosecution Team assigned a Cleanup and Cooperation multiplier of **1.1** for this violation because the Discharger was repeatedly told by San Diego Water Board and City inspectors to address the violation.

***History of Violations***

Where there is a history of repeated violations, a minimum multiplier of 1.1 should be used to reflect this. The Prosecution Team assigned a History of Violations multiplier of **1.0** for this violation because the Discharger does not have a history of construction storm water violations determined by this Board.

**STEP 5 – Determination of Total Base Liability Amount (Violation No. 4)**

The Total Base Liability Amount (i.e. initial amount of liability) is determined by multiplying the Per Day Assessment by the Days of Violation and then applying the adjustment factors as follows:

Total Base Liability	=	Days of Violation	x	Per Day Factor	x	Statutory Maximum Liability	x	Culpability Multiplier	x	Cleanup & Cooperation Multiplier	x	History of Violations Multiplier	
Total Base Liability	=	22	x	0.55	x	\$10,000	x	1.3	x	1.1	x	1.0	= \$173,030

**STEP 6 – Ability to Pay and Ability to Continue in Business (Violation No. 4)**

See discussion in Section III.D.

**STEP 7 – Other Factors as Justice May Require (Violation No. 4)**

See discussion in Section III.E.

**STEP 8 – Economic Benefit (Violation No. 4)**

The Discharger derived an economic benefit by not properly implementing the erosion control BMPs that are required for inactive areas. At a minimum, the Discharger should have provided effective soil cover for all inactive areas on the Site. The estimated cost to provide effective soil cover for all inactive areas on the Site is **\$8,500** based upon costs estimated by the San Diego Water Board. Using the US EPA BEN Model the Discharger enjoyed an economic benefit of **\$5,966**. See Exhibit No. 28.

**STEP 9 – Maximum and Minimum Liability Amounts (Violation No. 4)**

For all violations, Water Code section 13385 sets a maximum liability amount that may be assessed for each violation. For some violations, the statute also requires the assessment of a liability at no less than a specified amount. The maximum and minimum amounts for each violation must be determined for comparison to the amounts being proposed.

***Maximum Liability Amount***

Pursuant to Water Code section 13385 the maximum civil liability that the San Diego Water Board may assess for this violation is ten thousand dollars (\$10,000) per day of violation (per violation). Therefore, the Maximum Liability Amount that could be assessed for this violation is **\$220,000**.

***Minimum Liability Amount***

Water Code section 13385(e) requires that when pursuing civil liability under section 13385, "at a minimum, liability shall be assessed at a level that recovers the economic benefit, if any, derived from the acts that constitute the violation."

The Enforcement Policy requires that the adjusted Total Base Liability shall be at least ten percent (10%) higher than the Economic Benefit. Therefore, the minimum liability is  $(1.1 \times \$5,966) = \$6,563$ .

**STEP 10 – Final Liability Amount (Violation No. 4)**

Based on the unique facts of this case, and the liability calculation methodology within Section VI of the Enforcement Policy, the proposed civil liability for failing to adequately implement erosion control requirements for inactive areas for **22 days** in violation of the Construction Storm Water Permit is **\$173,030**, plus staff costs. The proposed liability is within the minimum and maximum liability range. See Exhibit No. 27.

**5. Violation No. 5: Failure to Implement Perimeter Sediment Control BMPs**

**STEP 1 - Potential for Harm for Discharge Violations (Violation No. 5)**

Step 1 does not apply to Non-Discharge Violations.

**STEP 2 – Assessment for Discharge Violations (Violation No. 5)**

Step 2 does not apply to Non-Discharge Violations.

**STEP 3 – Per Day Assessment of Non-Discharge Violations (Violation No. 5)**

While non-discharge violations may not directly or immediately impact beneficial uses, they harm or undermine the regulatory program. Per day assessments of non-discharge violations are determined based on the Potential for Harm and the extent of Deviation from Requirement, which are used in Table 3 of the Enforcement Policy to determine the Per Day Factor. The Per Day Factor is multiplied by the Statutory Maximum Liability amount allowed under the Water Code (i.e. \$10,000 per day).

***Potential for Harm***

The Potential for Harm is based on a determination of whether the circumstances of the violation indicate "a minor potential for harm" (Minor), "a substantial potential for harm" (Moderate), or "a very high potential for harm" (Major). The Enforcement Policy defines Moderate Potential for Harm as "[t]he characteristics of the violation present a substantial threat to beneficial uses, and/or the circumstances of the violation indicate a substantial potential for harm. The Prosecution Team has determined that the Potential for Harm is **Moderate** because the failure to implement adequate perimeter sediment control BMPs poses a substantial potential for harm if there is loose or eroded sediment that can be transported from the Site in storm water or non-storm water runoff to receiving waters.

***Deviation from Requirement***

The Deviation from Requirement is based on a determination of whether the intended effectiveness of the requirement “remains generally intact” (Minor), “has been partially compromised” (Moderate), or “rendered ineffective” (Major). The Enforcement Policy defines a Moderate “Deviation from Requirement” as “[t]he intended effectiveness of the requirement has been partially compromised (e.g., the requirement was not met, and the effectiveness of the requirement is only partially achieved).” The Prosecution Team has determined that the Deviation from Requirement is **Moderate** because there was evidence that the Discharger had attempted to implement perimeter sediment control BMPs; however they were ineffective as evidenced by sediment discharges, gaps in perimeter protection, and unmaintained BMPs during inspections.

***Per Day Factor***

Using a Potential for Harm determination of **Moderate** and Deviation from Requirement determination of **Moderate**, the Per Day Factor for the failure to implement the perimeter sediment control BMPs is **0.35** in Table 3 of the Enforcement Policy.

***Days of Non-Discharge Violation***

According to the documentation included with this technical analysis, the Discharger was in violation of the perimeter sediment control requirements of Section E.1. in Attachment D to the Construction Storm Water Permit for a period of **14 days**: 5 days (December 4 through 8, 2014); 2 days (December 15 through 16, 2014); 6 days (May 8 through 13, 2015), and 1 day (September 15, 2015).

**STEP 4 – Adjustment Factors (Violation No. 5)**

There are three additional factors that are considered for modification of the amount of the initial liability: the Discharger’s Culpability, the Discharger’s efforts for Cleanup and Cooperation after the violation, and the Discharger’s History of Violations. These three factors are discussed below.

***Culpability***

An adjustment for the initial liability based on the Discharger’s Culpability should result in a multiplier between 0.5 to 1.5, with a lower multiplier for accidental or non-negligent violations, and a higher multiplier for intentional or negligent violations. The test is what a reasonable and prudent person would have done or not done under similar circumstances. The Prosecution Team assigned a Culpability multiplier of **1.3** for this violation because the Discharger either intentionally or due to negligence did not adequately implement the perimeter sediment control requirements to prevent erosion and sediment discharges from the Site. There was no reason BMPs could not reasonably have been implemented to be in compliance with the Construction Storm Water Permit.

***Cleanup and Cooperation***

An adjustment for the initial liability based on the Discharger's efforts for Cleanup and Cooperation should result in a multiplier between 0.75 to 1.5, with a lower multiplier where there is a high degree of cleanup and cooperation, and a higher multiplier where this is absent. The Prosecution Team assigned a Cleanup and Cooperation multiplier of **1.1** for this violation because the Discharger did not adequately implement perimeter sediment control BMPs over several months.

***History of Violations***

Where there is a history of repeated violations, a minimum multiplier of 1.1 should be used to reflect this. The Prosecution Team assigned a History of Violations multiplier of **1.0** for this violation because the Discharger does not have a history of construction storm water violations determined by this Board.

**STEP 5 – Determination of Total Base Liability Amount (Violation No. 5)**

The Total Base Liability Amount (i.e. initial amount of liability) is determined by multiplying the Per Day Assessment by the Days of Violation and then applying the adjustment factors as follows:

<table border="1"><tr><td>Total Base Liability</td></tr></table>	Total Base Liability	=	Days of Violation	x	Per Day Factor	x	Statutory Maximum Liability	x	Culpability Multiplier	x	Cleanup & Cooperation Multiplier	x	History of Violations Multiplier	
Total Base Liability														
<table border="1"><tr><td>Total Base Liability</td></tr></table>	Total Base Liability	=	14	x	0.35	x	\$10,000	x	1.3	x	1.1	x	1.0	= \$70,070
Total Base Liability														

**STEP 6 – Ability to Pay and Ability to Continue in Business (Violation No. 5)**

See discussion in Section III.D.

**STEP 7 – Other Factors as Justice May Require (Violation No. 5)**

See discussion in Section III.E.

**STEP 8 – Economic Benefit (Violation No. 5)**

The Discharger derived an economic benefit by not properly implementing the perimeter sediment control BMPs that are required. At a minimum, the Discharger should have maintained or repaired gaps in perimeter sediment control BMPs when identified. The estimated cost to maintain or repair gaps in perimeter sediment control BMPs is **\$3,100** based upon costs estimated by the San Diego Water Board. Using the US EPA BEN Model the Discharger enjoyed an economic benefit of **\$2,175**. See Exhibit No. 28.

**STEP 9 – Maximum and Minimum Liability Amounts (Violation No. 5)**

For all violations, Water Code section 13385 sets a maximum liability amount that may be assessed for each violation. For some violations, the statute also requires the assessment of a liability at no less than a specified amount. The maximum and minimum amounts for each violation must be determined for comparison to the amounts being proposed.

***Maximum Liability Amount***

Pursuant to Water Code section 13385 the maximum civil liability that the San Diego Water Board may assess for this violation is ten thousand dollars (\$10,000) per day of violation (per violation). Therefore, the Maximum Liability Amount that could be assessed for this violation is **\$140,000**.

***Minimum Liability Amount***

Water Code section 13385(e) requires that when pursuing civil liability under section 13385, "*at a minimum, liability shall be assessed at a level that recovers the economic benefit, if any, derived from the acts that constitute the violation.*" The Enforcement Policy requires that the adjusted Total Base Liability shall be at least ten percent (10%) higher than the Economic Benefit. Therefore, the minimum liability is  $(1.1 \times \$2,175) = \mathbf{\$2,393}$ .

**STEP 10 – Final Liability Amount (Violation No. 5)**

Based on the unique facts of this case, and the liability calculation methodology within Section VI of the Enforcement Policy, the proposed civil liability for failing to adequately implement perimeter sediment control requirements for **14 days** in violation of the Construction Storm Water Permit is **\$70,070**, plus staff costs. The proposed liability is within the minimum and maximum liability range. See Exhibit No. 27.

**6. Violation No. 6: Failure to Implement Erosion Control BMPs in Active Areas.**

**STEP 1 - Potential for Harm for Discharge Violations (Violation No. 6)**

Step 1 does not apply to Non-Discharge Violations.

**STEP 2 – Assessment for Discharge Violations (Violation No. 6)**

Step 2 does not apply to Non-Discharge Violations.

**STEP 3 – Per Day Assessment of Non-Discharge Violations (Violation No. 6)**

While non-discharge violations may not directly or immediately impact beneficial uses, they harm or undermine the regulatory program. Per day assessments of non-discharge violations are determined based on the Potential for Harm and the extent of Deviation from Requirement, which are used in Table 3 of the Enforcement Policy to determine the Per Day Factor. The Per Day Factor is multiplied by the Statutory Maximum Liability amount allowed under the Water Code (i.e. \$10,000 per day).



***Potential for Harm***

The Potential for Harm is based on a determination of whether the circumstances of the violation indicate “a minor potential for harm” (Minor), “a substantial potential for harm” (Moderate), or “a very high potential for harm” (Major). The Enforcement Policy defines Moderate Potential for Harm as “[t]he characteristics of the violation present a substantial threat to beneficial uses, and/or the circumstances of the violation indicate a substantial potential for harm. The Prosecution Team has determined that the Potential for Harm is **Moderate** because the failure to implement the additional erosion control requirements for a Risk Level 2 construction site to reduce the higher potential of sediment generation poses a substantial potential for harm that may be caused by additional sediment potentially discharged in storm water runoff to receiving waters.

***Deviation from Requirement***

The Deviation from Requirement is based on a determination of whether the intended effectiveness of the requirement “remains generally intact” (Minor), “has been partially compromised” (Moderate), or “rendered ineffective” (Major). The Enforcement Policy defines a Major “Deviation from Requirement” as “[t]he requirement has been rendered ineffective (e.g., discharger disregards the requirement, and/or the requirement is rendered ineffective in its essential functions).” The Prosecution Team has determined that the Deviation from Requirement is **Major** because there was no evidence that the Discharger had adequately implemented, or was prepared to implement erosion control BMPs for active areas, thus rendering the requirement ineffective.

***Per Day Factor***

Using a Potential for Harm determination of **Moderate** and Deviation from Requirement determination of **Major**, the Per Day Factor for the failure to implement the additional Risk Level 2 erosion control requirements is **0.55** in Table 3 of the Enforcement Policy.

***Days of Non-Discharge Violation***

According to the documentation included with this technical analysis, the Discharger was in violation of the Risk Level 2 erosion control requirements of Section E.3. in Attachment D to the Construction Storm Water Permit for **22 days**: 8 days (December 1 through 8, 2014); 2 days (December 15 through 16, 2014); 1 day (January 6, 2015); 2 days (March 23 through 24, 2015); 8 days (May 8 through 15, 2015), and 1 day (September 15, 2015).

**STEP 4 – Adjustment Factors (Violation No. 6)**

There are three additional factors that are considered for modification of the amount of the initial liability: the Discharger's Culpability, the Discharger's efforts for Cleanup and Cooperation after the violation, and the Discharger's History of Violations. These three factors are discussed below.

***Culpability***

An adjustment for the initial liability based on the Discharger's Culpability should result in a multiplier between 0.5 to 1.5, with a lower multiplier for accidental or non-negligent violations, and a higher multiplier for intentional or negligent violations. The test is what a reasonable and prudent person would have done or not done under similar circumstances. The Prosecution Team assigned a Culpability multiplier of **1.3** for this violation because the Discharger either intentionally or due to negligence did not adequately implement the additional Risk Level 2 erosion control requirements for active areas of the Site. There was no reason BMPs could not reasonably have been implemented to be in compliance with the Construction Storm Water Permit.

***Cleanup and Cooperation***

An adjustment for the initial liability based on the Discharger's efforts for Cleanup and Cooperation should result in a multiplier between 0.75 to 1.5, with a lower multiplier where there is a high degree of cleanup and cooperation, and a higher multiplier where this is absent. The Prosecution Team assigned a Cleanup and Cooperation multiplier of **1.1** for this violation because the Discharger was repeatedly told by San Diego Water Board and City inspectors to address the violation.

***History of Violations***

Where there is a history of repeated violations, a minimum multiplier of 1.1 should be used to reflect this. The Prosecution Team assigned a History of Violations multiplier of **1.0** for this violation because the Discharger does not have a history of construction storm water violations determined by this Board.

**STEP 5 – Determination of Total Base Liability Amount (Violation No. 6)**

The Total Base Liability Amount (i.e. initial amount of liability) is determined by multiplying the Per Day Assessment by the Days of Violation and then applying the adjustment factors as follows:

<table border="1"><tr><td>Total Base Liability</td></tr></table>	Total Base Liability	=	Days of Violation	x	Per Day Factor	x	Statutory Maximum Liability	x	Culpability Multiplier	x	Cleanup & Cooperation Multiplier	x	History of Violations Multiplier		
Total Base Liability															
<table border="1"><tr><td>Total Base Liability</td></tr></table>	Total Base Liability	=	22	x	0.55	x	\$10,000	x	1.3	x	1.1	x	1.0	= <table border="1"><tr><td>\$173,030</td></tr></table>	\$173,030
Total Base Liability															
\$173,030															

**STEP 6 – Ability to Pay and Ability to Continue in Business (Violation No. 6)**

See discussion in Section III.D.

**STEP 7 – Other Factors as Justice May Require (Violation No. 6)**

See discussion in Section III.E.

**STEP 8 – Economic Benefit (Violation No. 6)**

The Discharger derived an economic benefit by not properly implementing the additional erosion control BMPs that are required on active areas for Risk Level 2 construction sites. At a minimum, the Discharger should have applied erosion control BMPs on active areas of the Site prior to the predicted storm events, and have BMPs available on site for deployment. The estimated cost to have materials available on site and provide erosion control BMPs for active areas on the Site is **\$8,500** based upon costs estimated by the San Diego Water Board. Using the US EPA BEN Model the Discharger enjoyed an economic benefit of **\$5,966**. See Exhibit No. 28.

**STEP 9 – Maximum and Minimum Liability Amounts (Violation No. 6)**

For all violations, Water Code section 13385 sets a maximum liability amount that may be assessed for each violation. For some violations, the statute also requires the assessment of a liability at no less than a specified amount. The maximum and minimum amounts for each violation must be determined for comparison to the amounts being proposed.

***Maximum Liability Amount***

Pursuant to Water Code section 13385 the maximum civil liability that the San Diego Water Board may assess for this violation is ten thousand dollars (\$10,000) per day of violation (per violation). Therefore, the Maximum Liability Amount that could be assessed for this violation is **\$220,000**.

***Minimum Liability Amount***

Water Code section 13385(e) requires that when pursuing civil liability under section 13385, "*at a minimum, liability shall be assessed at a level that recovers the economic benefit, if any, derived from the acts that constitute the violation.*" The Enforcement Policy requires that the adjusted Total Base Liability shall be at least ten percent (10%) higher than the Economic Benefit. Therefore, the minimum liability is  $(1.1 \times \$5,966) = \mathbf{\$6,563}$ .

**STEP 10 – Final Liability Amount (Violation No. 6)**

Based on the unique facts of this case, and the liability calculation methodology within Section VI of the Enforcement Policy, the proposed civil liability for failing to adequately implement additional Risk Level 2 erosion control requirements for **22 days** in violation of the Construction Storm Water Permit is **\$173,030**, plus staff costs. The proposed liability is within the minimum and maximum liability range. See Exhibit No. 27.

## 7. Violation No. 7: Failure to Apply Linear Sediment Controls

### **STEP 1 - Potential for Harm for Discharge Violations (Violation No. 7)**

Step 1 does not apply to Non-Discharge Violations.

### **STEP 2 – Assessment for Discharge Violations (Violation No. 7)**

Step 2 does not apply to Non-Discharge Violations.

### **STEP 3 – Per Day Assessment of Non-Discharge Violations (Violation No. 7)**

While non-discharge violations may not directly or immediately impact beneficial uses, they harm or undermine the regulatory program. Per day assessments of non-discharge violations are determined based on the Potential for Harm and the extent of Deviation from Requirement, which are used in Table 3 of the Enforcement Policy to determine the Per Day Factor. The Per Day Factor is multiplied by the Statutory Maximum Liability amount allowed under the Water Code (i.e. \$10,000 per day).

#### ***Potential for Harm***

The Potential for Harm is based on a determination of whether the circumstances of the violation indicate “a minor potential for harm” (Minor), “a substantial potential for harm” (Moderate), or “a very high potential for harm” (Major). The Enforcement Policy defines Moderate Potential for Harm as “[t]he characteristics of the violation present a substantial threat to beneficial uses, and/or the circumstances of the violation indicate a substantial potential for harm. The Prosecution Team has determined that the Potential for Harm is **Moderate** because the failure to implement the additional sediment control requirements for a Risk Level 2 construction site to reduce the higher potential of sediment generation and transport from exposed slopes poses a substantial potential for harm that may be caused from additional sediment potentially discharged in storm water runoff to receiving waters.

#### ***Deviation from Requirement***

The Deviation from Requirement is based on a determination of whether the intended effectiveness of the requirement “remains generally intact” (Minor), “has been partially compromised” (Moderate), or “rendered ineffective” (Major). The Enforcement Policy defines a Major “Deviation from Requirement” as “[t]he requirement has been rendered ineffective (e.g., discharger disregards the requirement, and/or the requirement is rendered ineffective in its essential functions).” The Prosecution Team has determined that the Deviation from Requirement is **Major** because the failure of the Discharger to implement effective BMPs resulted in sediment discharges.

***Per Day Factor***

Using a Potential for Harm determination of **Moderate** and Deviation from Requirement determination of **Major**, the Per Day Factor for the failure to implement the additional Risk Level 2 linear sediment control requirements is **0.55** in Table 3 of the Enforcement Policy.

***Days of Non-Discharge Violation***

According to the documentation included with this technical analysis, the Discharger was in violation of the Risk Level 2 linear sediment control requirements of Section E.4. in Attachment D to the Construction Storm Water Permit for **nine days**: 2 days (December 15 through 16, 2014); 6 days (May 8 through 13, 2015), and 1 day (September 15, 2015).

**STEP 4 – Adjustment Factors (Violation No. 7)**

There are three additional factors that are considered for modification of the amount of the initial liability: the Discharger's Culpability, the Discharger's efforts for Cleanup and Cooperation after the violation, and the Discharger's History of Violations. These three factors are discussed below.

***Culpability***

An adjustment for the initial liability based on the Discharger's Culpability should result in a multiplier between 0.5 to 1.5, with a lower multiplier for accidental or non-negligent violations, and a higher multiplier for intentional or negligent violations. The test is what a reasonable and prudent person would have done or not done under similar circumstances. The Prosecution Team assigned a Culpability multiplier of **1.3** for this violation because the Discharger either intentionally or due to negligence did not adequately implement the additional Risk Level 2 linear sediment control requirements for exposed slopes on the Site. There was no reason BMPs could not reasonably have been implemented to be in compliance with the Construction Storm Water Permit.

***Cleanup and Cooperation***

An adjustment for the initial liability based on the Discharger's efforts for Cleanup and Cooperation should result in a multiplier between 0.75 to 1.5, with a lower multiplier where there is a high degree of cleanup and cooperation, and a higher multiplier where this is absent. The Prosecution Team assigned a Cleanup and Cooperation multiplier of **1.1** for this violation because the Discharger did not adequately implement the additional Risk Level 2 sediment control BMPs for exposed slopes over several months.

***History of Violations***

Where there is a history of repeated violations, a minimum multiplier of 1.1 should be used to reflect this. The Prosecution Team assigned a History of Violations multiplier of **1.0** for this violation because the Discharger does not have a history of construction storm water violations determined by this Board.

**STEP 5 – Determination of Total Base Liability Amount (Violation No. 7)**

The Total Base Liability Amount (i.e. initial amount of liability) is determined by multiplying the Per Day Assessment by the Days of Violation and then applying the adjustment factors as follows:

Total Base Liability	=	Days of Violation	x	Per Day Factor	x	Statutory Maximum Liability	x	Culpability Multiplier	x	Cleanup & Cooperation Multiplier	x	History of Violations Multiplier	
Total Base Liability	=	9	x	0.55	x	\$10,000	x	1.3	x	1.1	x	1.0	= \$70,785

**STEP 6 – Ability to Pay and Ability to Continue in Business (Violation No. 7)**

See discussion in Section III.D.

**STEP 7 – Other Factors as Justice May Require (Violation No. 7)**

See discussion in Section III.E.

**STEP 8 – Economic Benefit (Violation No. 7)**

The Discharger derived an economic benefit by not properly implementing the additional sediment control BMPs that are required on exposed slopes for Risk Level 2 construction sites. At a minimum, the Discharger should have applied linear sediment control BMPs on exposed areas of the Site prior to the predicted storm events. The estimated cost to implement linear sediment control BMPs for exposed slopes on the Site is **\$1,000** based upon costs estimated by the San Diego Water Board. Using the US EPA BEN Model the Discharger enjoyed an economic benefit of **\$700**. See Exhibit No. 28.

**STEP 9 – Maximum and Minimum Liability Amounts (Violation No. 7)**

For all violations, Water Code section 13385 sets a maximum liability amount that may be assessed for each violation. For some violations, the statute also requires the assessment of a liability at no less than a specified amount. The maximum and minimum amounts for each violation must be determined for comparison to the amounts being proposed.

***Maximum Liability Amount***

Pursuant to Water Code section 13385 the maximum civil liability that the San Diego Water Board may assess for this violation is ten thousand dollars (\$10,000) per day of violation (per violation). Therefore, the Maximum Liability Amount that could be assessed for this violation is **\$90,000**.

***Minimum Liability Amount***

Water Code section 13385(e) requires that when pursuing civil liability under section 13385, "*at a minimum, liability shall be assessed at a level that recovers the economic benefit, if any, derived from the acts that constitute the violation.*"

The Enforcement Policy requires that the adjusted Total Base Liability shall be at least ten percent (10%) higher than the Economic Benefit. Therefore, the minimum liability is  $(1.1 \times \$700) = \$770$ .

**STEP 10 – Final Liability Amount (Violation No. 7)**

Based on the unique facts of this case, and the liability calculation methodology within Section VI of the Enforcement Policy, the proposed civil liability for failing to adequately implement additional Risk Level 2 linear sediment control requirements for exposed slopes for **nine days** in violation of the Construction Storm Water Permit is **\$70,785**, plus staff costs. The proposed liability is within the minimum and maximum liability range. See Exhibit No. 27.

**8. Violation No. 8: Failure to Manage Run-On and Runoff.**

**STEP 1 - Potential for Harm for Discharge Violations (Violation No. 8)**

Step 1 does not apply to Non-Discharge Violations.

**STEP 2 – Assessment for Discharge Violations (Violation No. 8)**

Step 2 does not apply to Non-Discharge Violations.

**STEP 3 – Per Day Assessment of Non-Discharge Violations (Violation No. 8)**

While non-discharge violations may not directly or immediately impact beneficial uses, they harm or undermine the regulatory program. Per day assessments of non-discharge violations are determined based on the Potential for Harm and the extent of Deviation from Requirement, which are used in Table 3 of the Enforcement Policy to determine the Per Day Factor. The Per Day Factor is multiplied by the Statutory Maximum Liability amount allowed under the Water Code (i.e. \$10,000 per day).

***Potential for Harm***

The Potential for Harm is based on a determination of whether the circumstances of the violation indicate "a minor potential for harm" (Minor), "a substantial potential for harm" (Moderate), or "a very high potential for harm" (Major). The Enforcement Policy defines Moderate Potential for Harm as "[t]he characteristics of the violation present a substantial threat to beneficial uses, and/or the circumstances of the violation indicate a substantial potential for harm. The Prosecution Team has determined that the Potential for Harm is **Moderate** because the failure to adequately control run-on, runoff within the Site, and runoff that discharged from the Site poses a substantial potential for harm from additional sediment that potentially discharged in storm water runoff to receiving waters.

***Deviation from Requirement***

The Deviation from Requirement is based on a determination of whether the intended effectiveness of the requirement “remains generally intact” (Minor), “has been partially compromised” (Moderate), or “rendered ineffective” (Major). The Enforcement Policy defines a Moderate “Deviation from Requirement” as “[t]he intended effectiveness of the requirement has been partially compromised (e.g., the requirement was not met, and the effectiveness of the requirement is only partially achieved).” The Prosecution Team has determined that the Deviation from Requirement is **Moderate** because there was evidence that the Discharger had at least implemented partially run-on controls, runoff controls within the Site, and runoff controls to prevent discharges off the Site, but the lack of adequate runoff controls within the Site compromised the intended effectiveness of the requirement.

***Per Day Factor***

Using a Potential for Harm determination of **Moderate** and Deviation from Requirement determination of **Moderate**, the Per Day Factor for the failure to implement the run-on and runoff control requirements is **0.35** in Table 3 of the Enforcement Policy.

***Days of Non-Discharge Violation***

According to the documentation included with this technical analysis, the Discharger was in violation of the run-on and runoff control requirements of Section F. in Attachment D to the Construction Storm Water Permit for **seven days**: 1 day (December 15, 2014); and 6 days (May 8 through 13, 2015).

**STEP 4 – Adjustment Factors (Violation No. 8)**

There are three additional factors that are considered for modification of the amount of the initial liability: the Discharger’s Culpability, the Discharger’s efforts for Cleanup and Cooperation after the violation, and the Discharger’s History of Violations. These three factors are discussed below.

***Culpability***

An adjustment for the initial liability based on the Discharger’s Culpability should result in a multiplier between 0.5 to 1.5, with a lower multiplier for accidental or non-negligent violations, and a higher multiplier for intentional or negligent violations. The test is what a reasonable and prudent person would have done or not done under similar circumstances. The Prosecution Team assigned a Culpability multiplier of **1.3** for this violation because the Discharger either intentionally or due to negligence did not adequately implement the run-on and runoff control requirements on the Site. There was no reason BMPs could not reasonably have been implemented to be in compliance with the Construction Storm Water Permit.



***Cleanup and Cooperation***

An adjustment for the initial liability based on the Discharger's efforts for Cleanup and Cooperation should result in a multiplier between 0.75 to 1.5, with a lower multiplier where there is a high degree of cleanup and cooperation, and a higher multiplier where this is absent. The Prosecution Team assigned a Cleanup and Cooperation multiplier of **1.1** for this violation because the Discharger did not adequately implement the run-on and runoff control BMPs over several months.

***History of Violations***

Where there is a history of repeated violations, a minimum multiplier of 1.1 should be used to reflect this. The Prosecution Team assigned a History of Violations multiplier of **1.0** for this violation because the Discharger does not have a history of construction storm water violations determined by this Board.

**STEP 5 – Determination of Total Base Liability Amount (Violation No. 8)**

The Total Base Liability Amount (i.e. initial amount of liability) is determined by multiplying the Per Day Assessment by the Days of Violation and then applying the adjustment factors as follows:

<table border="1"><tr><td>Total Base Liability</td></tr></table>	Total Base Liability	=	Days of Violation	x	Per Day Factor	x	Statutory Maximum Liability	x	Culpability Multiplier	x	Cleanup & Cooperation Multiplier	x	History of Violations Multiplier		
Total Base Liability															
<table border="1"><tr><td>Total Base Liability</td></tr></table>	Total Base Liability	=	7	x	0.35	x	\$10,000	x	1.3	x	1.1	x	1.0	= <table border="1"><tr><td>\$35,035</td></tr></table>	\$35,035
Total Base Liability															
\$35,035															

**STEP 6 – Ability to Pay and Ability to Continue in Business (Violation No. 8)**

See discussion in Section III.D.

**STEP 7 – Other Factors as Justice May Require (Violation No. 8)**

See discussion in Section III.E.

**STEP 8 – Economic Benefit (Violation No. 8)**

The Discharger derived an economic benefit by not properly implementing the run-on and runoff control requirements. At a minimum, the Discharger should have implemented runoff controls within the Site in addition to implementing adequate perimeter sediment controls. The estimated cost to implement runoff controls within the Site is **\$600** based upon costs estimated by the San Diego Water Board. Using the US EPA BEN Model the Discharger enjoyed an economic benefit of **\$420**. See Exhibit No. 28.

**STEP 9 – Maximum and Minimum Liability Amounts (Violation No. 8)**

For all violations, Water Code section 13385 sets a maximum liability amount that may be assessed for each violation. For some violations, the statute also requires the assessment of a liability at no less than a specified amount. The maximum and minimum amounts for each violation must be determined for comparison to the amounts being proposed.

***Maximum Liability Amount***

Pursuant to Water Code section 13385 the maximum civil liability that the San Diego Water Board may assess for this violation is ten thousand dollars (\$10,000) per day of violation (per violation). Therefore, the Maximum Liability Amount that could be assessed for this violation is **\$70,000**.

***Minimum Liability Amount***

Water Code section 13385(e) requires that when pursuing civil liability under section 13385, "*at a minimum, liability shall be assessed at a level that recovers the economic benefit, if any, derived from the acts that constitute the violation.*" The Enforcement Policy requires that the adjusted Total Base Liability shall be at least ten percent (10%) higher than the Economic Benefit. Therefore, the minimum liability is  $(1.1 \times \$420) = \$462$ .

**STEP 10 – Final Liability Amount (Violation No. 8)**

Based on the unique facts of this case, and the liability calculation methodology within Section VI of the Enforcement Policy, the proposed civil liability for failing to adequately implement run-on and runoff control requirements for **seven days** in violation of the Construction Storm Water Permit is **\$35,035**, plus staff costs. The proposed liability is within the minimum and maximum liability range. See Exhibit No. 27.

**9. Violation No. 9: Failure to Remove Sediment or Other Construction Materials from Roads.**

**STEP 1 - Potential for Harm for Discharge Violations (Violation No. 9)**

Step 1 does not apply to Non-Discharge Violations.

**STEP 2 – Assessment for Discharge Violations (Violation No. 9)**

Step 2 does not apply to Non-Discharge Violations.

**STEP 3 – Per Day Assessment of Non-Discharge Violations (Violation No. 9)**

While non-discharge violations may not directly or immediately impact beneficial uses, they harm or undermine the regulatory program. Per day assessments of non-discharge violations are determined based on the Potential for Harm and the extent of Deviation from Requirement, which are used in Table 3 of the Enforcement Policy to determine the Per Day Factor. The Per Day Factor is multiplied by the Statutory Maximum Liability amount allowed under the Water Code (i.e. \$10,000 per day).

***Potential for Harm***

The Potential for Harm is based on a determination of whether the circumstances of the violation indicate “a minor potential for harm” (Minor), “a substantial potential for harm” (Moderate), or “a very high potential for harm” (Major). The Enforcement Policy defines Moderate Potential for Harm as “[t]he characteristics of the violation present a substantial threat to beneficial uses, and/or the circumstances of the violation indicate a substantial potential for harm. The Prosecution Team has determined that the Potential for Harm is **Moderate** because the existence of sediment and/or construction materials and waste in the streets poses a substantial threat to receiving water beneficial uses when there are storm events.

***Deviation from Requirement***

The Deviation from Requirement is based on a determination of whether the intended effectiveness of the requirement “remains generally intact” (Minor), “has been partially compromised” (Moderate), or “rendered ineffective” (Major). The Enforcement Policy defines a Moderate “Deviation from Requirement” as “[t]he intended effectiveness of the requirement has been partially compromised (e.g., the requirement was not met, and the effectiveness of the requirement is only partially achieved).” The Prosecution Team has determined that the Deviation from Requirement is **Moderate** because there was evidence that the Discharger attempted to reduce the existence of sediment and construction materials from roadways however their efforts were clearly unsuccessful as evidenced in the inspection reports.

***Per Day Factor***

Using a Potential for Harm determination of **Moderate** and Deviation from Requirement determination of **Moderate**, the Per Day Factor for the failure to adequately sweep up sediment and construction materials from roadways is **0.35** in Table 3 of the Enforcement Policy.

***Days of Non-Discharge Violation***

According to the documentation included with this technical analysis, the Discharger was in violation of the requirement of Section E.7. in Attachment D to the Construction Storm Water Permit for **10 days**: December 2 through 9, 2014; December 16, 2014, and September 15, 2015.

#### **STEP 4 – Adjustment Factors (Violation No. 9)**

There are three additional factors that are considered for modification of the amount of the initial liability: the Discharger's Culpability, the Discharger's efforts for Cleanup and Cooperation after the violation, and the Discharger's History of Violations. These three factors are discussed below.

##### ***Culpability***

An adjustment for the initial liability based on the Discharger's Culpability should result in a multiplier between 0.5 to 1.5, with a lower multiplier for accidental or non-negligent violations, and a higher multiplier for intentional or negligent violations. The test is what a reasonable and prudent person would have done or not done under similar circumstances.

The Prosecution Team assigned a Culpability multiplier of **1.3** for this violation because the Discharger either intentionally or due to negligence failed to remove sediment and construction materials from roadways. There was no reason the Discharger could not reasonably have hired a street sweeper or employed laborers to sweep the roadways.

##### ***Cleanup and Cooperation***

An adjustment for the initial liability based on the Discharger's efforts for Cleanup and Cooperation should result in a multiplier between 0.75 to 1.5, with a lower multiplier where there is a high degree of cleanup and cooperation, and a higher multiplier where this is absent. The Prosecution Team assigned a Cleanup and Cooperation multiplier of **1.1** for this violation because the Discharger did not sweep the sediment and construction materials within 72 hours after repeated notifications to do so.

##### ***History of Violations***

Where there is a history of repeated violations, a minimum multiplier of 1.1 should be used to reflect this. The Prosecution Team assigned a History of Violations multiplier of **1.0** for this violation because the Discharger does not have a history of construction storm water violations determined by this Board.

#### **STEP 5 – Determination of Total Base Liability Amount (Violation No. 9)**

The Total Base Liability Amount (i.e. initial amount of liability) is determined by multiplying the Per Day Assessment by the Days of Violation and then applying the adjustment factors as follows:

<table border="1"><tr><td>Total Base Liability</td></tr></table>	Total Base Liability	=	Days of Violation	x	Per Day Factor	x	Statutory Maximum Liability	x	Culpability Multiplier	x	Cleanup & Cooperation Multiplier	x	History of Violations Multiplier		
Total Base Liability															
<table border="1"><tr><td>Total Base Liability</td></tr></table>	Total Base Liability	=	10	x	0.35	x	\$10,000	x	1.3	x	1.1	x	1.0	= <table border="1"><tr><td>\$50,050</td></tr></table>	\$50,050
Total Base Liability															
\$50,050															

**STEP 6 – Ability to Pay and Ability to Continue in Business (Violation No. 9)**

See discussion in Section III.D.

**STEP 7 – Other Factors as Justice May Require (Violation No. 9)**

See discussion in Section III.E.

**STEP 8 – Economic Benefit**

The Discharger derived an economic benefit by removing the sediment and construction materials from the roadways. At a minimum, the Discharger should have swept the roadways. The estimated cost to implement the BMPs on the Site is **\$300** based upon costs estimated by the San Diego Water Board. Using the US EPA BEN Model the Discharger enjoyed an economic benefit of **\$211**. See Exhibit No. 28.

**STEP 9 – Maximum and Minimum Liability Amounts (Violation No. 9)**

For all violations, Water Code section 13385 sets a maximum liability amount that may be assessed for each violation. For some violations, the statute also requires the assessment of a liability at no less than a specified amount. The maximum and minimum amounts for each violation must be determined for comparison to the amounts being proposed.

***Maximum Liability Amount***

Pursuant to Water Code section 13385 the maximum civil liability that the San Diego Water Board may assess for this violation is ten thousand dollars (\$10,000) per day of violation (per violation). Therefore, the Maximum Liability Amount that could be assessed for this violation is **\$100,000**.

***Minimum Liability Amount***

Water Code section 13385(e) requires that when pursuing civil liability under section 13385, "*at a minimum, liability shall be assessed at a level that recovers the economic benefit, if any, derived from the acts that constitute the violation.*"

The Enforcement Policy requires that the adjusted Total Base Liability shall be at least ten percent (10%) higher than the Economic Benefit. Therefore, the minimum liability is  $(1.1 \times \$211) = \mathbf{\$232}$ .

**STEP 10 – Final Liability Amount (Violation No. 9)**

Based on the unique facts of this case, and the liability calculation methodology within Section VI of the Enforcement Policy, the proposed civil liability for failing to sweep the streets of sediment and construction materials for **10 days** in violation of the Construction Storm Water Permit is **\$50,050**, plus staff costs. The proposed liability is within the minimum and maximum liability range. See Exhibit No. 27.

**10. Violation No. 10: Failure to Protect Storm Drain Inlets.**

**STEP 1 - Potential for Harm for Discharge Violations (Violation No. 10)**

Step 1 does not apply to Non-Discharge Violations.

**STEP 2 – Assessment for Discharge Violations (Violation No. 10)**

Step 2 does not apply to Non-Discharge Violations.

**STEP 3 – Per Day Assessment of Non-Discharge Violations (Violation No. 10)**

While non-discharge violations may not directly or immediately impact beneficial uses, they harm or undermine the regulatory program. Per day assessments of non-discharge violations are determined based on the Potential for Harm and the extent of Deviation from Requirement, which are used in Table 3 of the Enforcement Policy to determine the Per Day Factor. The Per Day Factor is multiplied by the Statutory Maximum Liability amount allowed under the Water Code (i.e. \$10,000 per day).

***Potential for Harm***

The Potential for Harm is based on a determination of whether the circumstances of the violation indicate “a minor potential for harm” (Minor), “a substantial potential for harm” (Moderate), or “a very high potential for harm” (Major). The Enforcement Policy defines Moderate Potential for Harm as “[t]he characteristics of the violation present a substantial threat to beneficial uses, and/or the circumstances of the violation indicate a substantial potential for harm. The Prosecution Team has determined that the Potential for Harm is **Moderate** because the failure to implement adequate storm drain inlet protections poses a substantial potential for harm because in the event of storm event or non-storm water discharge pollutants will flow unabated into the receiving water.

***Deviation from Requirement***

The Deviation from Requirement is based on a determination of whether the intended effectiveness of the requirement “remains generally intact” (Minor), “has been partially compromised” (Moderate), or “rendered ineffective” (Major). The Enforcement Policy defines a Moderate “Deviation from Requirement” as “[t]he intended effectiveness of the requirement has been partially compromised (e.g., the requirement was not met, and the effectiveness of the requirement is only partially achieved).” The Prosecution Team has determined that the Deviation from Requirement is **Moderate** because there was evidence that the Discharger had attempted to implement storm drain inlet protection on some of the storm drain inlets at the Site but not all.

***Per Day Factor***

Using a Potential for Harm determination of **Moderate** and Deviation from Requirement determination of **Moderate**, the Per Day Factor for the failure to implement the perimeter sediment control BMPs is **0.35** in Table 3 of the Enforcement Policy.

***Days of Non-Discharge Violation***

According to the documentation included with this technical analysis, the Discharger was in violation of the requirement to protect storm drain inlets, Section E.6. in Attachment D to the Construction Storm Water Permit for **three days**: December 8, 2014; May 13, 2015, and September 15, 2015.

**STEP 4 – Adjustment Factors (Violation No. 10)**

There are three additional factors that are considered for modification of the amount of the initial liability: the Discharger's Culpability, the Discharger's efforts for Cleanup and Cooperation after the violation, and the Discharger's History of Violations. These three factors are discussed below.

***Culpability***

An adjustment for the initial liability based on the Discharger's Culpability should result in a multiplier between 0.5 to 1.5, with a lower multiplier for accidental or non-negligent violations, and a higher multiplier for intentional or negligent violations. The test is what a reasonable and prudent person would have done or not done under similar circumstances. The Prosecution Team assigned a Culpability multiplier of **1.3** for this violation because the Discharger either intentionally or due to negligence did not protect some of the storm drain inlets on the Site. There was no reason BMPs could not reasonably have been implemented to be in compliance with the Construction Storm Water Permit.

***Cleanup and Cooperation***

An adjustment for the initial liability based on the Discharger's efforts for Cleanup and Cooperation should result in a multiplier between 0.75 to 1.5, with a lower multiplier where there is a high degree of cleanup and cooperation, and a higher multiplier where this is absent. The Prosecution Team assigned a Cleanup and Cooperation multiplier of **1.0** for this violation because the Discharger corrected the violations with 72 hours of being notified.

***History of Violations***

Where there is a history of repeated violations, a minimum multiplier of 1.1 should be used to reflect this. The Prosecution Team assigned a History of Violations multiplier of **1.0** for this violation because the Discharger does not have a history of construction storm water violations determined by this Board.

**STEP 5 – Determination of Total Base Liability Amount (Violation No. 10)**

The Total Base Liability Amount (i.e. initial amount of liability) is determined by multiplying the Per Day Assessment by the Days of Violation and then applying the adjustment factors as follows:

Total Base Liability	=	Days of Violation	x	Per Day Factor	x	Statutory Maximum Liability	x	Culpability Multiplier	x	Cleanup & Cooperation Multiplier	x	History of Violations Multiplier	
Total Base Liability	=	3	x	0.35	x	\$10,000	x	1.3	x	1.0	x	1.0	= \$13,650

**STEP 6 – Ability to Pay and Ability to Continue in Business (Violation No. 10)**

See discussion in Section III.D.

**STEP 7 – Other Factors as Justice May Require (Violation No. 10)**

See discussion in Section III.E.

**STEP 8 – Economic Benefit (Violation No. 10)**

The Discharger derived an economic benefit by not protecting storm drain inlets as required. At a minimum, the Discharger should have installed storm drain inlet inserts to protect the storm drain inlets. The estimated cost to install storm drain inserts into the storm drain inlets is **\$600** based upon costs estimated by the San Diego Water Board. Using the US EPA BEN Model the Discharger enjoyed an economic benefit of **\$420**. See Exhibit No. 28.

**STEP 9 – Maximum and Minimum Liability Amounts (Violation No. 10)**

For all violations, Water Code section 13385 sets a maximum liability amount that may be assessed for each violation. For some violations, the statute also requires the assessment of a liability at no less than a specified amount. The maximum and minimum amounts for each violation must be determined for comparison to the amounts being proposed.

***Maximum Liability Amount***

Pursuant to Water Code section 13385 the maximum civil liability that the San Diego Water Board may assess for this violation is ten thousand dollars (\$10,000) per day of violation (per violation). Therefore, the Maximum Liability Amount that could be assessed for this violation is **\$30,000**.

***Minimum Liability Amount***

Water Code section 13385(e) requires that when pursuing civil liability under section 13385, "*at a minimum, liability shall be assessed at a level that recovers the economic benefit, if any, derived from the acts that constitute the violation.*" The Enforcement Policy requires that the adjusted Total Base Liability shall be at least ten percent (10%) higher than the Economic Benefit. Therefore, the minimum liability is  $(1.1 \times \$420) = \mathbf{\$462}$ .



**STEP 10 – Final Liability Amount (Violation No. 10)**

Based on the unique facts of this case, and the liability calculation methodology within Section VI of the Enforcement Policy, the proposed civil liability for failing to protect storm drain inlets for **three days** in violation of the Construction Storm Water Permit is **\$13,650**, plus staff costs. The proposed liability is within the minimum and maximum liability range. See Exhibit No. 27.

**11. Violation No. 11: Failure to Contain and Securely Protect Stockpiled Waste Material from Wind and Rain.**

**STEP 1 - Potential for Harm for Discharge Violations (Violation No. 11)**

Step 1 does not apply to Non-Discharge Violations.

**STEP 2 – Assessment for Discharge Violations (Violation No. 11)**

Step 2 does not apply to Non-Discharge Violations.

**STEP 3 – Per Day Assessment of Non-Discharge Violations (Violation No. 11)**

While non-discharge violations may not directly or immediately impact beneficial uses, they harm or undermine the regulatory program. Per day assessments of non-discharge violations are determined based on the Potential for Harm and the extent of Deviation from Requirement, which are used in Table 3 of the Enforcement Policy to determine the Per Day Factor. The Per Day Factor is multiplied by the Statutory Maximum Liability amount allowed under the Water Code (i.e. \$10,000 per day).

***Potential for Harm***

The Potential for Harm is based on a determination of whether the circumstances of the violation indicate “a minor potential for harm” (Minor), “a substantial potential for harm” (Moderate), or “a very high potential for harm” (Major). The Enforcement Policy defines Minor Potential for Harm as “[t]he characteristics of the violation present a minor threat to beneficial uses, and/or the circumstances of the violation indicate a minor potential for harm.” The Prosecution Team has determined that the Potential for Harm is **Minor** because the stockpile that the Discharger failed to cover contained scrap lumber which poses a minor threat to beneficial uses.

***Deviation from Requirement***

The Deviation from Requirement is based on a determination of whether the intended effectiveness of the requirement “remains generally intact” (Minor), “has been partially compromised” (Moderate), or “rendered ineffective” (Major). The Enforcement Policy defines a Moderate “Deviation from Requirement” as “[t]he intended effectiveness of the requirement has been partially compromised (e.g., the requirement was not met, and the effectiveness of the requirement is only partially achieved).” The Prosecution Team has determined that the Deviation from Requirement is **Moderate** because there was evidence that the Discharger had attempted to cover other waste stockpiles at the Site.

***Per Day Factor***

Using a Potential for Harm determination of **Minor** and Deviation from Requirement determination of **Moderate**, the Per Day Factor for the failure to implement the perimeter sediment control BMPs is **0.25** in Table 3 of the Enforcement Policy.

***Days of Non-Discharge Violation***

According to the documentation included with this technical analysis, the Discharger was in violation of the requirement to cover waste stockpiles, Section B.2.f. in Attachment D to the Construction Storm Water Permit for **nine days**: January 6 through 14, 2015.

**STEP 4 – Adjustment Factors (Violation No. 11)**

There are three additional factors that are considered for modification of the amount of the initial liability: the Discharger’s Culpability, the Discharger’s efforts for Cleanup and Cooperation after the violation, and the Discharger’s History of Violations. These three factors are discussed below.

***Culpability***

An adjustment for the initial liability based on the Discharger’s Culpability should result in a multiplier between 0.5 to 1.5, with a lower multiplier for accidental or non-negligent violations, and a higher multiplier for intentional or negligent violations. The test is what a reasonable and prudent person would have done or not done under similar circumstances. The Prosecution Team assigned a Culpability multiplier of **1.3** for this violation because the Discharger either intentionally or due to negligence did not protect some of the storm drain inlets on the Site. There was no reason BMPs could not reasonably have been implemented to be in compliance with the Construction Storm Water Permit.

***Cleanup and Cooperation***

An adjustment for the initial liability based on the Discharger's efforts for Cleanup and Cooperation should result in a multiplier between 0.75 to 1.5, with a lower multiplier where there is a high degree of cleanup and cooperation, and a higher multiplier where this is absent. The Prosecution Team assigned a Cleanup and Cooperation multiplier of **1.1** for this violation because the Discharger failed to correct the violation with 72 hours of being notified.

***History of Violations***

Where there is a history of repeated violations, a minimum multiplier of 1.1 should be used to reflect this. The Prosecution Team assigned a History of Violations multiplier of **1.0** for this violation because the Discharger does not have a history of construction storm water violations determined by this Board.

**STEP 5 – Determination of Total Base Liability Amount (Violation No. 11)**

The Total Base Liability Amount (i.e. initial amount of liability) is determined by multiplying the Per Day Assessment by the Days of Violation and then applying the adjustment factors as follows:

Total Base Liability	=	Days of Violation	x	Per Day Factor	x	Statutory Maximum Liability	x	Culpability Multiplier	x	Cleanup & Cooperation Multiplier	x	History of Violations Multiplier	
Total Base Liability	=	9	x	0.25	x	\$10,000	x	1.3	x	1.1	x	1.0	= \$32,175

**STEP 6 – Ability to Pay and Ability to Continue in Business (Violation No. 11)**

See discussion in Section III.D.

**STEP 7 – Other Factors as Justice May Require (Violation No. 11)**

See discussion in Section III.E.

**STEP 8 – Economic Benefit (Violation No. 11)**

The Discharger derived an economic benefit by not properly protecting waste stockpiles as required. At a minimum, the Discharger should have covered and bermed the waste stockpiles. The estimated cost to cover and berm the waste stockpiles is **\$455** based upon costs estimated by the San Diego Water Board. Using the US EPA BEN Model the Discharger enjoyed an economic benefit of **\$315**. See Exhibit No. 28.

**STEP 9 – Maximum and Minimum Liability Amounts (Violation No. 11)**

For all violations, Water Code section 13385 sets a maximum liability amount that may be assessed for each violation. For some violations, the statute also requires the assessment of a liability at no less than a specified amount. The maximum and minimum amounts for each violation must be determined for comparison to the amounts being proposed.

***Maximum Liability Amount***

Pursuant to Water Code section 13385 the maximum civil liability that the San Diego Water Board may assess for this violation is ten thousand dollars (\$10,000) per day of violation (per violation). Therefore, the Maximum Liability Amount that could be assessed for this violation is **\$90,000**.

***Minimum Liability Amount***

Water Code section 13385(e) requires that when pursuing civil liability under section 13385, "*at a minimum, liability shall be assessed at a level that recovers the economic benefit, if any, derived from the acts that constitute the violation.*" The Enforcement Policy requires that the adjusted Total Base Liability shall be at least ten percent (10%) higher than the Economic Benefit. Therefore, the minimum liability is  $(1.1 \times \$315) = \mathbf{\$347}$ .

**STEP 11 – Final Liability Amount (Violation No. 11)**

Based on the unique facts of this case, and the liability calculation methodology within Section VI of the Enforcement Policy, the proposed civil liability for failing to protect waste stockpiles for **nine days** in violation of the Construction Storm Water Permit is **\$32,175**, plus staff costs. The proposed liability is within the minimum and maximum liability range. See Exhibit No. 27.

**12. Violation No. 12: Failure to Properly Store Chemicals.**

**STEP 1 - Potential for Harm for Discharge Violations (Violation No. 12)**

Step 1 does not apply to Non-Discharge Violations.

**STEP 2 – Assessment for Discharge Violations (Violation No. 12)**

Step 2 does not apply to Non-Discharge Violations.

**STEP 3 – Per Day Assessment of Non-Discharge Violations (Violation No. 12)**

While non-discharge violations may not directly or immediately impact beneficial uses, they harm or undermine the regulatory program. Per day assessments of non-discharge violations are determined based on the Potential for Harm and the extent of Deviation from Requirement, which are used in Table 3 of the Enforcement Policy to determine the Per Day Factor. The Per Day Factor is multiplied by the Statutory Maximum Liability amount allowed under the Water Code (i.e. \$10,000 per day).

***Potential for Harm***

The Potential for Harm is based on a determination of whether the circumstances of the violation indicate “a minor potential for harm” (Minor), “a substantial potential for harm” (Moderate), or “a very high potential for harm” (Major). The Enforcement Policy defines Major Potential for Harm as “[t]he characteristics of the violation present a particularly egregious threat to beneficial uses, and/or the circumstances of the violation indicate a very high potential for harm.” The Prosecution Team has determined that the Potential for Harm is **Major** because the failure to have secondary containment of diesel fuels and asphaltic material poses an egregious threat to beneficial uses because there is a very high potential for harm if these materials were discharged to the receiving waters.

***Deviation from Requirement***

The Deviation from Requirement is based on a determination of whether the intended effectiveness of the requirement “remains generally intact” (Minor), “has been partially compromised” (Moderate), or “rendered ineffective” (Major). The Enforcement Policy defines a Moderate “Deviation from Requirement” as “[t]he intended effectiveness of the requirement has been partially compromised (e.g., the requirement was not met, and the effectiveness of the requirement is only partially achieved).” The Prosecution Team has determined that the Deviation from Requirement is **Moderate** because although there was no secondary containment for the chemicals they were in water tight containers.

***Per Day Factor***

Using a Potential for Harm determination of **Major** and Deviation from Requirement determination of **Moderate**, the Per Day Factor for the failure to implement the perimeter sediment control BMPs is **0.55** in Table 3 of the Enforcement Policy.

***Days of Non-Discharge Violation***

According to the documentation included with this technical analysis, the Discharger was in violation of the requirement to provide secondary containment for stored chemicals and fuels, Section B.1.c. in Attachment D to the Construction Storm Water Permit for **7 days**: March 18 through 24, 2015.

**STEP 4 – Adjustment Factors (Violation No. 12)**

There are three additional factors that are considered for modification of the amount of the initial liability: the Discharger’s Culpability, the Discharger’s efforts for Cleanup and Cooperation after the violation, and the Discharger’s History of Violations. These three factors are discussed below.

***Culpability***

An adjustment for the initial liability based on the Discharger's Culpability should result in a multiplier between 0.5 to 1.5, with a lower multiplier for accidental or non-negligent violations, and a higher multiplier for intentional or negligent violations. The test is what a reasonable and prudent person would have done or not done under similar circumstances. The Prosecution Team assigned a Culpability multiplier of **1.3** for this violation because the Discharger either intentionally or due to negligence did not provide secondary containment for the chemicals and fuels. There was no reason secondary containment could not reasonably have been implemented to be in compliance with the Construction Storm Water Permit.

***Cleanup and Cooperation***

An adjustment for the initial liability based on the Discharger's efforts for Cleanup and Cooperation should result in a multiplier between 0.75 to 1.5, with a lower multiplier where there is a high degree of cleanup and cooperation, and a higher multiplier where this is absent. The Prosecution Team assigned a Cleanup and Cooperation multiplier of **1.1** for this violation because the Discharger failed to correct the violation within 72 hours of being notified.

***History of Violations***

Where there is a history of repeated violations, a minimum multiplier of 1.1 should be used to reflect this. The Prosecution Team assigned a History of Violations multiplier of **1.0** for this violation because the Discharger does not have a history of construction storm water violations determined by this Board.

**STEP 5 – Determination of Total Base Liability Amount (Violation No. 12)**

The Total Base Liability Amount (i.e. initial amount of liability) is determined by multiplying the Per Day Assessment by the Days of Violation and then applying the adjustment factors as follows:

Total Base Liability	=	Days of Violation	x	Per Day Factor	x	Statutory Maximum Liability	x	Culpability Multiplier	x	Cleanup & Cooperation Multiplier	x	History of Violations Multiplier	
Total Base Liability	=	7	x	0.55	x	\$10,000	x	1.3	x	1.1	x	1.0	= \$55,055

**STEP 6 – Ability to Pay and Ability to Continue in Business (Violation No. 12)**

See discussion in Section III.D.

**STEP 7 – Other Factors as Justice May Require (Violation No. 12)**

See discussion in Section III.E.

**STEP 8 – Economic Benefit (Violation No. 12)**

The Discharger derived an economic benefit by not providing secondary containment as required. At a minimum, the Discharger should have installed secondary containment structures. The estimated cost to protect the chemicals and fuels is **\$3,213** based upon costs estimated by the San Diego Water Board. Using the US EPA BEN Model the Discharger enjoyed an economic benefit of **\$1,985**. See Exhibit No. 28.

**STEP 9 – Maximum and Minimum Liability Amounts (Violation No. 12)**

For all violations, Water Code section 13385 sets a maximum liability amount that may be assessed for each violation. For some violations, the statute also requires the assessment of a liability at no less than a specified amount. The maximum and minimum amounts for each violation must be determined for comparison to the amounts being proposed.

***Maximum Liability Amount***

Pursuant to Water Code section 13385 the maximum civil liability that the San Diego Water Board may assess for this violation is ten thousand dollars (\$10,000) per day of violation (per violation). Therefore, the Maximum Liability Amount that could be assessed for this violation is **\$70,000**.

***Minimum Liability Amount***

Water Code section 13385(e) requires that when pursuing civil liability under section 13385, "*at a minimum, liability shall be assessed at a level that recovers the economic benefit, if any, derived from the acts that constitute the violation.*" The Enforcement Policy requires that the adjusted Total Base Liability shall be at least ten percent (10%) higher than the Economic Benefit. Therefore, the minimum liability is  $(1.1 \times \$1,985) = \mathbf{\$2,184}$ .

**STEP 10 – Final Liability Amount (Violation No. 12)**

Based on the unique facts of this case, and the liability calculation methodology within Section VI of the Enforcement Policy, the proposed civil liability for failing to provide secondary containment for chemicals and fuels for **seven days** in violation of the Construction Storm Water Permit is **\$55,055**, plus staff costs. The proposed liability is within the minimum and maximum liability range. See Exhibit No. 27.

**13. Violation No. 13: Failure to Prevent Discharge of Concrete Waste to the Ground.**

**STEP 1 - Potential for Harm for Discharge Violations (Violation No. 13)**

Step 1 does not apply to Non-Discharge Violations.

**STEP 2 – Assessment for Discharge Violations (Violation No. 13)**

Step 2 does not apply to Non-Discharge Violations.

**STEP 3 – Per Day Assessment of Non-Discharge Violations (Violation No. 13)**

While non-discharge violations may not directly or immediately impact beneficial uses, they harm or undermine the regulatory program. Per day assessments of non-discharge violations are determined based on the Potential for Harm and the extent of Deviation from Requirement, which are used in Table 3 of the Enforcement Policy to determine the Per Day Factor. The Per Day Factor is multiplied by the Statutory Maximum Liability amount allowed under the Water Code (i.e. \$10,000 per day).

***Potential for Harm***

The Potential for Harm is based on a determination of whether the circumstances of the violation indicate “a minor potential for harm” (Minor), “a substantial potential for harm” (Moderate), or “a very high potential for harm” (Major). The Enforcement Policy defines Minor Potential for Harm as “[t]he characteristics of the violation present a minor threat to beneficial uses, and/or the circumstances of the violation indicate a minor potential for harm.” The Prosecution Team has determined that the Potential for Harm is **Minor**. While cementitious material is highly toxic to plants and animals; in this case the several instances of discharge appear to be less than five gallons in volume to the ground, and not directly into a storm drain.

***Deviation from Requirement***

The Deviation from Requirement is based on a determination of whether the intended effectiveness of the requirement “remains generally intact” (Minor), “has been partially compromised” (Moderate), or “rendered ineffective” (Major). The Enforcement Policy defines a Major “Deviation from Requirement” as “[t]he requirement has been rendered ineffective (e.g., discharger disregards the requirement, and/or the requirement is rendered ineffective in its essential functions).” The Prosecution Team has determined that the Deviation from Requirement is **Major** because no intent was made to use wash out or concrete waste bins when facilities existed at the Site.

***Per Day Factor***

Using a Potential for Harm determination of **Minor** and Deviation from Requirement determination of **Major**, the Per Day Factor for the failure to implement the perimeter sediment control BMPs is **0.55** in Table 3 of the Enforcement Policy.

***Days of Non-Discharge Violation***

According to the documentation included with this technical analysis, the Discharger failed to prevent the discharge of concrete waste to the ground in violation of section B.2.i. in Attachment D to the Construction Storm Water Permit for **15 days**: March 18 through April 1, 2015.



**STEP 4 – Adjustment Factors (Violation No. 13)**

There are three additional factors that are considered for modification of the amount of the initial liability: the Discharger's Culpability, the Discharger's efforts for Cleanup and Cooperation after the violation, and the Discharger's History of Violations. These three factors are discussed below.

***Culpability***

An adjustment for the initial liability based on the Discharger's Culpability should result in a multiplier between 0.5 to 1.5, with a lower multiplier for accidental or non-negligent violations, and a higher multiplier for intentional or negligent violations. The test is what a reasonable and prudent person would have done or not done under similar circumstances. The Prosecution Team assigned a Culpability multiplier of **1.3** for this violation because the Discharger either intentionally or due to negligence did not use the concrete washout facilities on the Site. There was no reason BMPs could not reasonably have been implemented to be in compliance with the Construction Storm Water Permit.

***Cleanup and Cooperation***

An adjustment for the initial liability based on the Discharger's efforts for Cleanup and Cooperation should result in a multiplier between 0.75 to 1.5, with a lower multiplier where there is a high degree of cleanup and cooperation, and a higher multiplier where this is absent. The Prosecution Team assigned a Cleanup and Cooperation multiplier of **1.1** for this violation because the Discharger failed to correct the violation with 72 hours of being notified.

***History of Violations***

Where there is a history of repeated violations, a minimum multiplier of 1.1 should be used to reflect this. The Prosecution Team assigned a History of Violations multiplier of **1.0** for this violation because the Discharger does not have a history of construction storm water violations determined by this Board.

**STEP 5 – Determination of Total Base Liability Amount (Violation No. 13)**

The Total Base Liability Amount (i.e. initial amount of liability) is determined by multiplying the Per Day Assessment by the Days of Violation and then applying the adjustment factors as follows:

<div style="border: 1px solid black; padding: 2px; display: inline-block;">Total Base Liability</div>	=	Days of Violation	x	Per Day Factor	x	Statutory Maximum Liability	x	Culpability Multiplier	x	Cleanup & Cooperation Multiplier	x	History of Violations Multiplier	
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Total Base Liability</div>	=	15	x	0.55	x	\$10,000	x	1.3	x	1.1	x	1.0	= <div style="border: 1px solid black; padding: 2px; display: inline-block;">\$75,075</div>

**STEP 6 – Ability to Pay and Ability to Continue in Business (Violation No. 13)**

See discussion in Section III.D.

**STEP 7 – Other Factors as Justice May Require (Violation No. 13)**

See discussion in Section III.E.

**STEP 8 – Economic Benefit (Violation No. 13)**

The Discharger derived an economic benefit by not properly disposing of the concrete waste as required. At a minimum, the Discharger should have discharged the concrete waste into a designated concrete washout container. The estimated cost to rent a concrete washout container and properly dispose of the concrete is **\$618** based upon costs estimated by the San Diego Water Board. Using the US EPA BEN Model the Discharger enjoyed an economic benefit of **\$378**. See Exhibit No. 28.

**STEP 9 – Maximum and Minimum Liability Amounts (Violation No. 13)**

For all violations, Water Code section 13385 sets a maximum liability amount that may be assessed for each violation. For some violations, the statute also requires the assessment of a liability at no less than a specified amount. The maximum and minimum amounts for each violation must be determined for comparison to the amounts being proposed.

***Maximum Liability Amount***

Pursuant to Water Code section 13385 the maximum civil liability that the San Diego Water Board may assess for this violation is ten thousand dollars (\$10,000) per day of violation (per violation). Therefore, the Maximum Liability Amount that could be assessed for this violation is **\$150,000**.

***Minimum Liability Amount***

Water Code section 13385(e) requires that when pursuing civil liability under section 13385, "*at a minimum, liability shall be assessed at a level that recovers the economic benefit, if any, derived from the acts that constitute the violation.*" The Enforcement Policy requires that the adjusted Total Base Liability shall be at least ten percent (10%) higher than the Economic Benefit. Therefore, the minimum liability is  $(1.1 \times \$378) = \mathbf{\$416}$ .

**STEP 11 – Final Liability Amount (Violation No. 13)**

Based on the unique facts of this case, and the liability calculation methodology within Section VI of the Enforcement Policy, the proposed civil liability for failing to properly dispose of concrete waste for **15 days** in violation of the Construction Storm Water Permit is **\$75,075**, plus staff costs. The proposed liability is within the minimum and maximum liability range. See Exhibit No. 27.

**D. Consideration of Ability to Pay and Ability to Continue in Business**

The Total Base Liability Amount may be adjusted to address the violator's ability to pay or continue in business. For a violation addressed pursuant to Water Code section 13385, the adjustment for ability to pay and ability to continue in business cannot reduce the liability to less than the economic benefit amount.

According to the NOI, the property owner is San Altos-Lemon Grove, LLC, and the developer is BCA Development, Inc. The contact for both entities is Ben Anderson. According to publicly available information (<http://www.manta.com/c/mmj25wg/bca-development-inc>), Ben Anderson is the owner of BCA Development, Inc., and the estimated annual revenue of BCA Development, Inc. is \$10 to \$20 million. According to this information, the Discharger has the ability to pay the proposed civil liability and continue in business.

Based on this publicly available data, the burden of this affirmative defense now shifts to the Discharger to offer any evidence they would like to the Prosecution Team to consider when evaluating their ability to pay the Total Proposed Liability Amount.

**E. Other Factors as Justice May Require**

The Enforcement Policy provides that if the San Diego Water Board believes that the amount determined using the above factors is inappropriate, the liability amount may be adjusted under the provision for “other factors as justice may require,” if express finding are made.

Examples of circumstances warranting an adjustment under this step are:

- a. The discharger has provided, or Water Board staff has identified, other pertinent information not previously considered that indicates a higher or lower amount is justified.
- b. A consideration of issues of environmental justice indicates that the amount would have a disproportionate impact on a particular disadvantaged group.
- c. The calculated amount is entirely disproportionate to assessments for similar conduct made in the recent past using the Enforcement Policy.

(Enforcement Policy, p. 19.)

The circumstances in this matter do not warrant an adjustment under this step.

The Enforcement Policy also provides under the "Other Factors as Justice May Require" that the cost of investigation and enforcement should be added to the liability amount. From December 15, 2014, to September 10, 2015, the San Diego Water Board invested 212.50 hours to investigate, prepare enforcement documents, and consider this action. The total investment of the San Diego Water Board to date is **\$15,763**. These staff costs are not divided by violation and are added at the end of the collective penalty assessment. A summary of the staff costs incurred to date is provided in Exhibit No. 29, Staff Cost Summary. If the Discharger elects to contest this matter, the recommended liability may increase to recover necessary additional staff costs incurred through to the day of hearing.

**F. Total Proposed Liability Amount**

The total proposed liability amount for the violations in ACL Complaint No. R9-2015-0110 is \$832,611, plus staff costs of \$15,763 for a total of **\$848,374**. A summary of the methodology used by the Prosecution Team to calculate the proposed civil liability is provided in Exhibit No. 27, Penalty Methodology Summary. Below is a tabular summary of the total proposed liability, Table No. 1.

**Table No. 1. Total Proposed Liability Amount Summary**

Violation No.	Alleged Violation	Liability Per Day of Violation	Days of Violation Assessed	Proposed Liability Amount
1	Discharges of sediment	\$3,146	6	\$18,876
2	Failure to protect material stockpiles.	\$5,005	10	\$50,050
3	Failure to protect against vehicle leaks.	\$7,865	2	\$15,730
4	Failure to protect against Erosion in inactive areas.	\$7,865	22	\$173,030
5	Failure to implement adequate perimeter sediment controls.	\$5,005	14	\$70,070
6	Failure to protect against Erosion in active areas.	\$7,865	22	\$173,030
7	Failure to implement adequate linear sediment controls.	\$7,865	9	\$70,785
8	Failure to implement adequate run-on/runoff controls.	\$5,005	7	\$35,035
9	Failure to remove sediment from roadways.	\$5,005	10	\$50,050
10	Failure to protect storm drain inlets.	\$4,550	3	\$13,650
11	Failure to protect waste stockpiles.	\$3,575	9	\$32,175
12	Failure to adequately store chemicals.	\$7,865	7	\$55,055
13	Failure to prevent concrete discharges to the ground.	\$5,005	15	\$75,075
Total Base Liability Amount				\$832,611
Staff Costs to Date				\$15,763
Total Proposed Liability Amount				\$848,374

# Melbourn, Frank - Vol. 1



Litigation  
SERVICES

Job: 600096

Exhibit: 00003

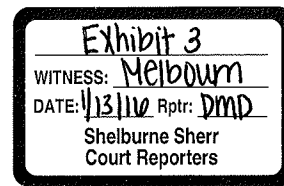


**Exhibit No. 1**

State Water Resources Control Board

**NOTICE OF INTENT**

GENERAL PERMIT TO DISCHARGE STORM WATER  
ASSOCIATED WITH CONSTRUCTION ACTIVITY  
(WQ ORDER No. 2009-0009-DWQ)



WDID:

Risk Level: Level2

**Property Owner Information**

Type: Private Business

Name: SAN ALTOS LEMON GROVE LLC

Contact Name: Ben Anderson

Address: 5780 Fleet Avenue

Title: Contact

Address 2: Suite 225

Phone #: 714-966-1544

City/State/Zip: Carlsbad CA 92008

Email: kimberlyv@bcadevelopment.com

**Contractor/Developer Information**

Name: BCA DEVELOPMENT INC

Contact Name: Ben Anderson

Address: 3194 Airport Loop Drive

Title:

Address 2: Suite C2

Phone #: 714-966-1544

City/State/Zip: Costa Mesa CA 92626

Email: kimberlyv@bcadevelopment.com

**Construction Site Information**

Site Name: Valencia

Contact Name: Ben Anderson

Address: 1350 San Altos Place

Title:

City/State/Zip: Lemon Grove CA 91945

Site Phone #: 714-966-1544

County: San Diego

Email: kimberlyv@bcadevelopment.com

Latitude: 32.7163

Longitude: -117.04805

Total Size of Construction Area: 18.26

Construction Start: March 01, 2014

Total Area to be Disturbed: 18.26

Complete Grading:

Final Stabilization: December 31, 2015

**Risk Values**

R: 41.3

K: 0.24

LS: 2.11

Beneficial Uses/303(d): No

Type of Construction: \*Residential

Receiving Water: Chollas Creek

Qualified SWPPP Developer: Kamal Sweis

Certification #: 20266

RWQCB Jurisdiction: Region 9 - San Diego

Phone: 619-516-1990

Email: r9\_stormwater@waterboards.ca.gov

**Certification**

Name Ben Anderson

Date: March 06, 2014

Title: President





Exhibit No. 2

# NOTICE

DATE: 12/2/14  
PROJECT: Valencia  
PROJECT #: GR-1692  
ADDRESS: SAN AITOS PL

## ☒ STOP WORK/NOTICE OF VIOLATION

Stop all other work until erosion control/NPDES deficiencies noted below are corrected. Issuance of this Stop Work Notice will notify the Regional Water Quality Control Board regarding your BMP deficiencies. This may subject you to fines of up to \$10,000/day.

## ☐ CORRECT WORK

Correct noted deficiencies within the specified time frame to avoid a Stop Work Notice:

☐ 24 Hours ☐ 72 Hours ☐ 5 Days ☐ Prior to October 1<sup>st</sup>, And/Or ☐ Before Rain Event

### THIS PROJECT IS IN CONFLICT WITH THE FOLLOWING:

- ☐ City of Lemon Grove Grading Ordinance\* ☒ City of Lemon Grove JURMP  
☐ Other: \_\_\_\_\_

### THE AREAS OF CONFLICT ARE:

- ☐ Erosion control is not on site ☐ Erosion control is not per the approved plan  
☒ Erosion control is inadequate ☐ Failure to maintain erosion/sediment control device  
☐ Other: \_\_\_\_\_

### THE FOLLOWING DEFICIENCIES ARE NOTED:

- ☒ Stabilized construction entrance ☐ Runoff from the site ☐ Desilting basin  
☐ Perimeter protection at toe of slope ☐ Waste/materials storage  
☐ Concrete washout inadequate, not maintained ☐ No secondary containment  
☒ Cover stockpiles ☐ No storm drain inlet/outlet protection ☐ Trash/debris not managed  
☐ Cover on sloped and/or flat areas that are inactive for more than 10 days  
☐ Other: \_\_\_\_\_

\*\*\*STOP/ CORRECT WORK ADEQUATELY ADDRESSED (DATE/SIGNATURE) \_\_\_\_\_

- CC: ☒ City Engineer  
☒ Engineering  
☐ Management Analyst  
☐ Code Compliance  
☐ Building  
☐ RWQCB

ISSUED TO: TIM ANDERSON (via email)  
DATE/TIME: 12/2/14 3pm  
BY: GARY HARPER  
TITLE: Eng. Inspector  
PHONE: (619) 454-1272

IF YOU HAVE FURTHER QUESTIONS, PLEASE  
CALL THE CITY OF LEMON GROVE'S  
DEVELOPMENT SERVICES DEPARTMENT AT  
(619) 825-3805.

\* Having deficiencies in your erosion control is a violation of the City of Lemon Grove's Grading Ordinance. A violation of the City's Grading Ordinance is a misdemeanor. Each separate day or portion thereof on which a violation exists or is allowed to exist shall constitute a separate offense punishable by the provisions of the Ordinance.





CITY OF LEMON GROVE  
3232 Main Street, Lemon Grove, CA 91945

## NPDES STORMWATER PROGRAM CONSTRUCTION STORMWATER COMPLIANCE INSPECTION FORM

Inspector Name /Signature/Date/Time: Harper / Jan / 12/12/14 / 1pm

Inspection: ☐ Permit-Required Inspection ☐ Follow-up Inspection ☒ Other (Explain) Weekly

Construction Project Priority: ☐ High ☐ Medium ☐ Low

### GENERAL INFORMATION

Grading or Building Permit #: GR-1692

Project Name & Type: VALENCIA, Subdivision

Project Location & Address: SAN AITO PL

Contractor's Name & Telephone #: Anderson Development (949) 275-6739

Property Owner & Telephone #: SAN AITO LLC

Is this Project Greater than an Acre? ☒ Yes ☐ No ☐ N/A

If yes: Provide Record of Waste Discharge Identification Number (WDID#): 937C 36 9143

Does this Project have an NOI/SWPPP Available? ☒ Yes ☐ No ☐ N/A

Is Weather Triggered Action Plan Completed? ☒ Yes ☐ No ☐ N/A

Is Advanced Treatment Implemented Appropriately? ☐ Yes ☐ No ☒ N/A

Is More than 17 Acres of Cleared or Graded Areas Left Exposed at Any Given Time? ☐ Yes ☒ No ☐ N/A

Is 125% of Materials to Install Standby BMPs Available? ☐ Yes ☒ No ☐ N/A

Are Routine Self-Inspections Being Conducted by Developer/Owner? ☒ Yes ☐ No ☐ N/A

Project Site is in What Sub-Watershed: ☐ Chollas Creek 908.22 ☐ Sweetwater River 909.12

Nearest Conveyances or Water Bodies: M 54

BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
<b>Soil Stabilization and Erosion Prevention</b>					
Is construction site phased/scheduled to address erosion control on a timely basis?	X			Contractor Hydroseeding AS NEEDED, BUT DID NOT SEED AS PLANNED	N
Preservation of existing vegetation?	X				Y
Physical Stabilization: Hydraulic Mulch, Hydroseeding, Soil Binders, Straw Mulch					
Geotextiles, Plastic Covers, Erosion Prevention Blankets, Wood Mulching	X			NOT ENOUGH PLASTIC COVERS FOR STOCKPILES	NO
Site Drainage: Outlet Protection/Slope Drain	X				Y
Inlet/Outlet Protection	Y				Y
<b>Sediment Control/Containment</b>					
Perimeter Protection: Silt Fencing, Gravel Bags, Fiber Rolls	Y				Y



BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
Storm Drain inlet protection: Sediment Trap, De-silting Basin, Gravel Bag Barrier	Y				Y
Tracking Controls: Stabilized Entrance/Exit Road Stabilization, Tire Wash, Street Sweeping	Y			ENTRANCE NEEDS TO BE CLEANED. ALSO NEED STREET SWEEP	NO
<b>Materials and Equipment Management</b>					
Are materials and wastes stored in a manner that minimizes or eliminates the potential to discharge these materials to the storm drain system, is secondary containment used?	Y				Y
Are material stockpiles protected: covered, contained and located away from non-storm water discharges?	Y			SOME ARE COVERED SOME ARE NOT	NO
Are heavy equipment and vehicles parked in designated areas with permeable surface?	Y				Y
Are appropriate spill response and containment measures kept on the site?	Y				Y
Are wastes managed and stored properly (Solid, liquid, sanitary, concrete, hazardous)	Y				Y
Are concrete washouts properly installed, maintained with no evidence of discharges.	Y				Y
Is timely service and removal provided to prevent waste containers and sanitary facilities from overflowing?	Y				Y
<b>Non-Storm Water Management</b>					
Is the site free of evidence of illegal connections and/or illicit discharges?	Y				Y
<b>Discharge Locations</b>					
Are the discharge locations free of significant erosion or sediment transport?		N		TC-1 IS DOWNSTREAM OF UPPER SITE'S	NO
<b>Other</b>					
Are there any other potential storm water pollution issues/concerns?	Y			RAIN EVENT TODAY, TC-1 SHOULD BE PROTECTED	NO
Was there any employee or subcontractor training on stormwater BMPs?		N			

#### VIOLATIONS

- ☐ No violations noted at time of inspection/investigation
- ☐ No violations; however, recommended corrective actions required
- ☐ Inspection Form as Correct Work Notice ☐ Correct Work Notice Issued on: \_\_\_\_\_
- ☒ Violation: Illegal Discharge/Illegal Connection/Improper BMPs Implementation
- ☒ Stop Work Notice Issued on: 12/2/14

#### RECOMMENDED CORRECTIVE ACTION

SEE STOP WORK NOTICE - Discharge is  
IMMINENT IF NOAA FORECAST CORRECT: 100% Heavy  
RAIN THIS AFTERNOON.  
I CALL TO TIM ANDERSON THIS MORNING AT 9AM.  
LEFT V. MAIL THAT SITUATION NEEDED ATTENTION ASAP- NO  
RETURN CALL



Lack of eroision control BMPs on inactive areas.



Lack of eroision control BMPs on active areas.



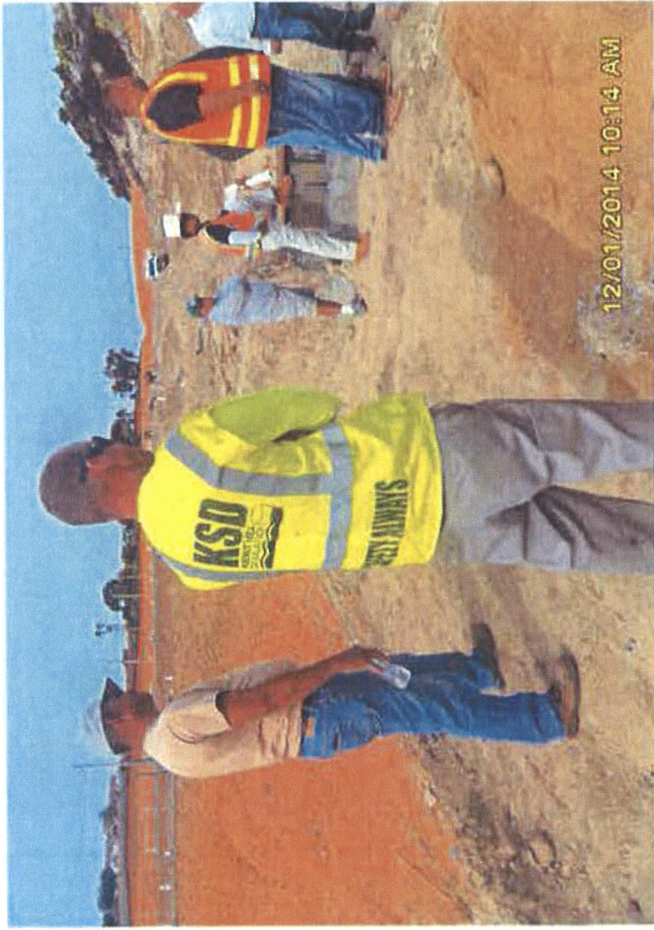




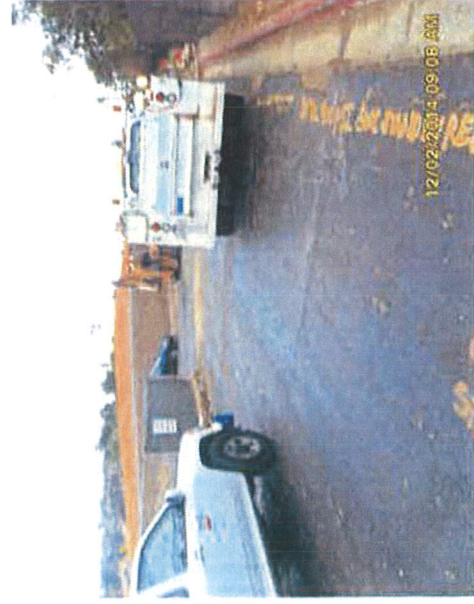
Lack of eroision control BMPs on inactive areas.













Unprotected stockpile.



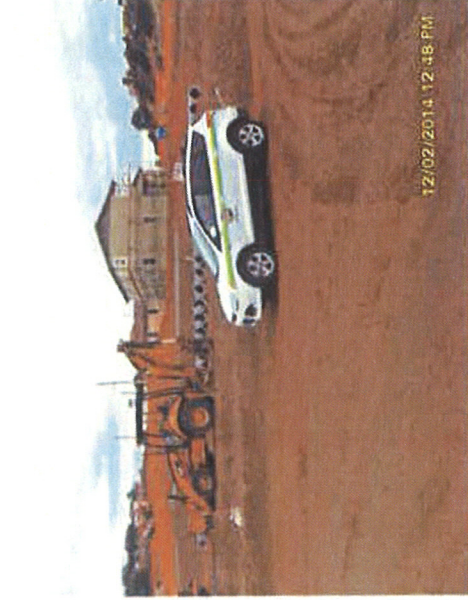
12/02/2014 12:48 PM



12/02/2014 12:47 PM



12/02/2014 12:52 PM



12/02/2014 12:48 PM

Lack of erosion control BMPs on inactive areas.



12/02/2014 12:53 PM



12/02/2014 12:49 PM



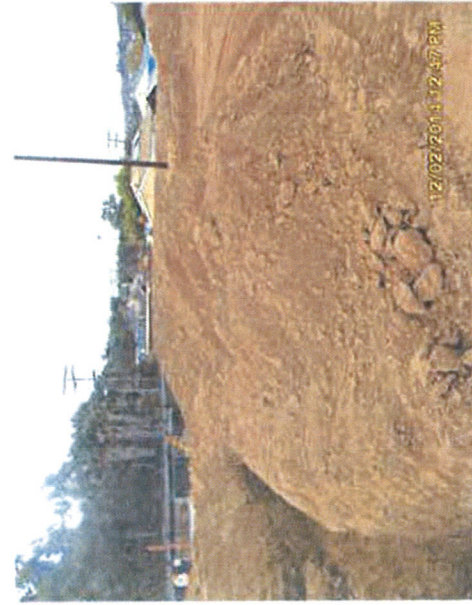
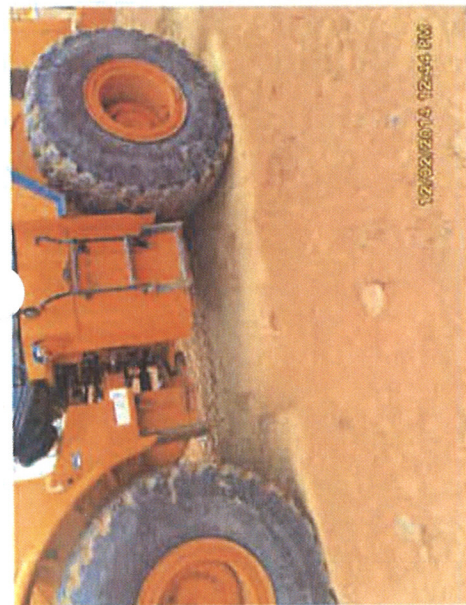
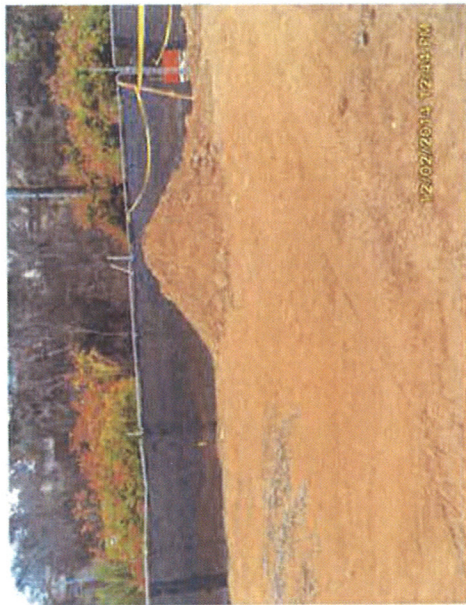
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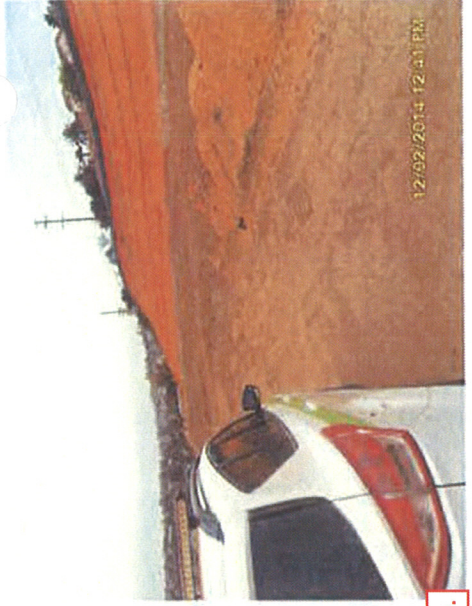
12/02/2014 12:48 PM

Stockpiles lack coverage and perimeter containment.

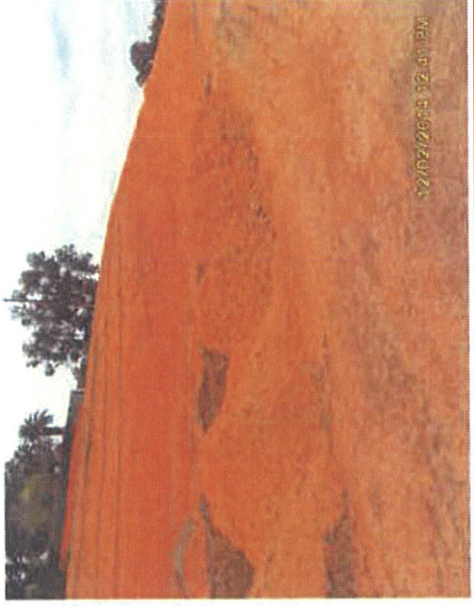






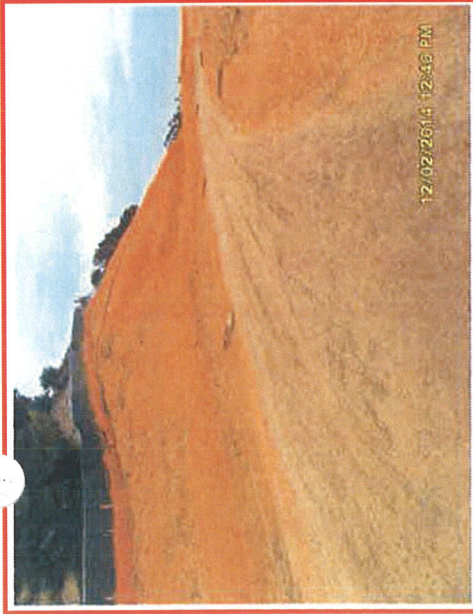


Lack of eroision control BMPs on active areas.



Lack of eroision control BMPs on inactive areas.





Lack of erosion control BMPs on inactive areas.

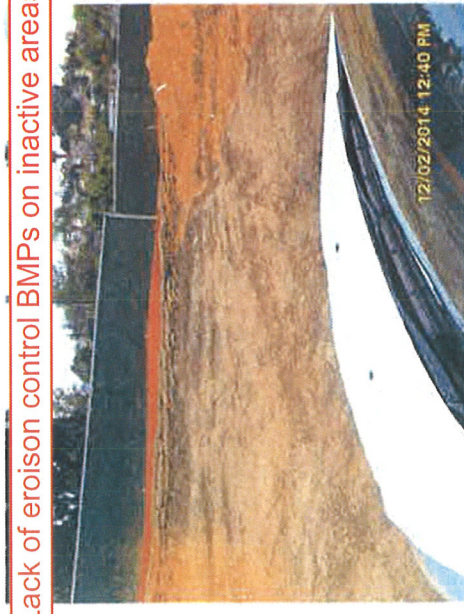








Exhibit No. 3

# NOTICE

DATE: 12/4/2014  
PROJECT: VALLENCIA  
PROJECT #: GIR-1692  
ADDRESS: SAN ANTE PL

## ☒ STOP WORK/NOTICE OF VIOLATION

Stop all other work until erosion control/NPDES deficiencies noted below are corrected. Issuance of this Stop Work Notice will notify the Regional Water Quality Control Board regarding your BMP deficiencies. This may subject you to fines of up to \$10,000/day.

## ☐ CORRECT WORK

Correct noted deficiencies within the specified time frame to avoid a Stop Work Notice:

☐ 24 Hours ☐ 72 Hours ☐ 5 Days ☐ Prior to October 1<sup>st</sup>, And/Or ☐ Before Rain Event

### THIS PROJECT IS IN CONFLICT WITH THE FOLLOWING:

- ☐ City of Lemon Grove Grading Ordinance\* ☒ City of Lemon Grove JURMP  
☐ Other: \_\_\_\_\_

### THE AREAS OF CONFLICT ARE:

- ☐ Erosion control is not on site ☒ Erosion control is not per the approved plan  
☒ Erosion control is inadequate ☒ Failure to maintain erosion/sediment control device  
☐ Other: \_\_\_\_\_

### THE FOLLOWING DEFICIENCIES ARE NOTED:

- ☒ Stabilized construction entrance ☒ Runoff from the site ☐ Desilting basin  
☐ Perimeter protection at toe of slope ☐ Waste/materials storage  
☐ Concrete washout inadequate, not maintained ☐ No secondary containment  
☒ Cover stockpiles ☐ No storm drain inlet/outlet protection ☐ Trash/debris not managed  
☐ Cover on sloped and/or flat areas that are inactive for more than 10 days  
☒ Other: Illegal Discharge

\*\*\*STOP/ CORRECT WORK ADEQUATELY ADDRESSED (DATE/SIGNATURE) \_\_\_\_\_

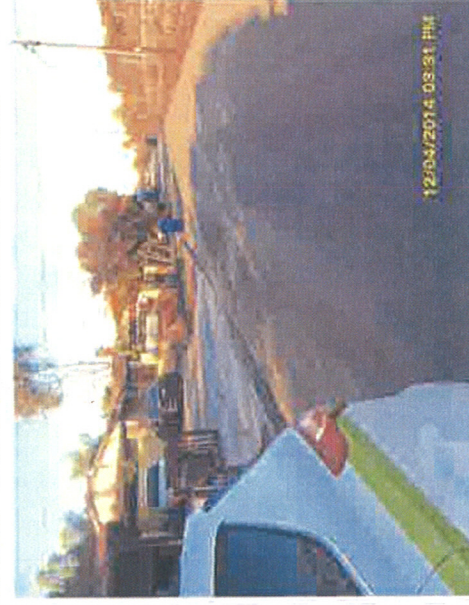
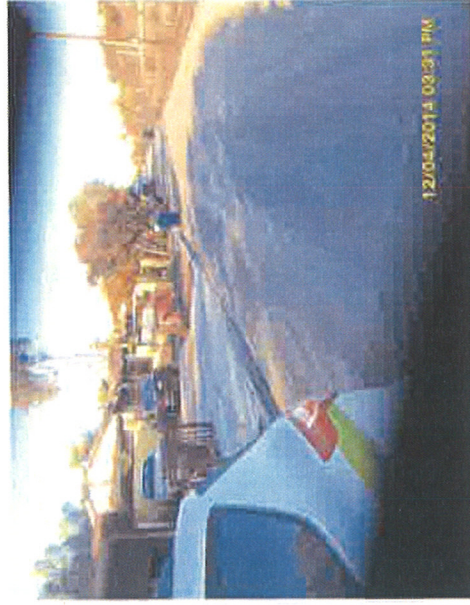
- CC: ☒ City Engineer  
☒ Engineering  
☐ Management Analyst  
☐ Code Compliance  
☐ Building  
☒ RWQCB

ISSUED TO: Tia Anderson (Email)  
DATE/TIME: 12/4/2014 10AM  
BY: GARY HANCOCK  
TITLE: ENV. INSPECTOR  
PHONE: (619) 454 1222

IF YOU HAVE FURTHER QUESTIONS, PLEASE  
CALL THE CITY OF LEMON GROVE'S  
DEVELOPMENT SERVICES DEPARTMENT AT  
(619) 825-3805.

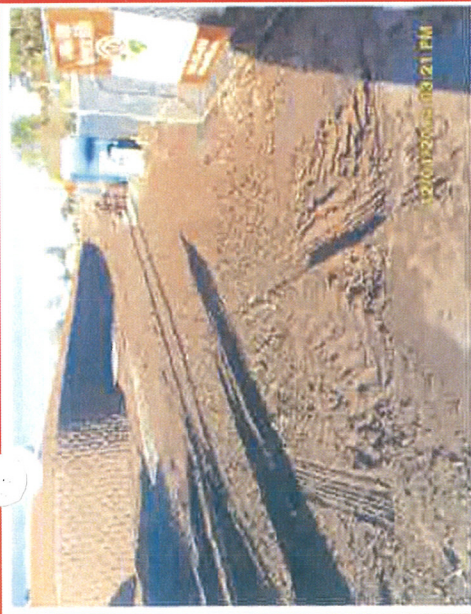
\* Having deficiencies in your erosion control is a violation of the City of Lemon Grove's Grading Ordinance. A violation of the City's Grading Ordinance is a misdemeanor. Each separate day or portion thereof on which a violation exists or is allowed to exist shall constitute a separate offense punishable by the provisions of the Ordinance.



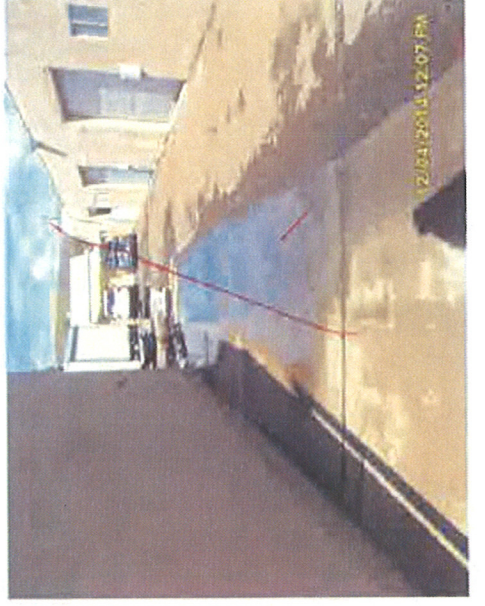


Sediment in street.





Lack of erosion control in inactive areas.







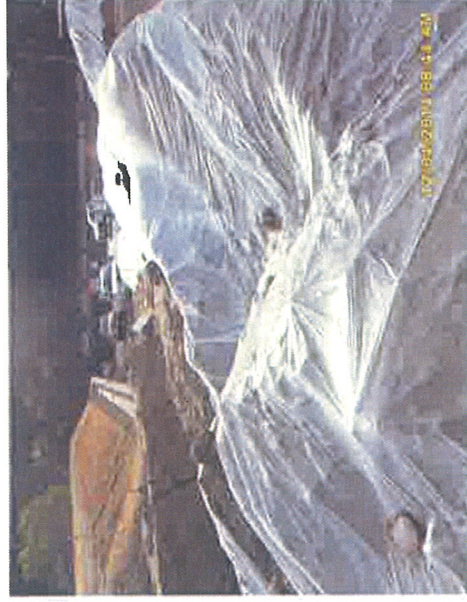
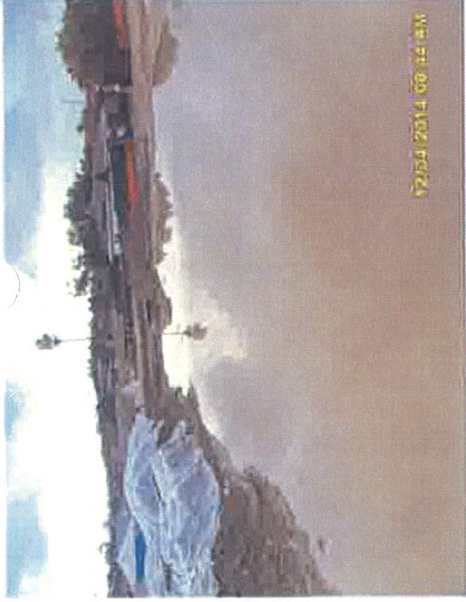
Lack of erosion control BMPs on active areas.



Sediment in street.



Although stockpile is partially covered it lacks perimeter containment.









\* = CITY OF SAN DIEGO 7TH ST RUNOFF NOT VAKNCIA

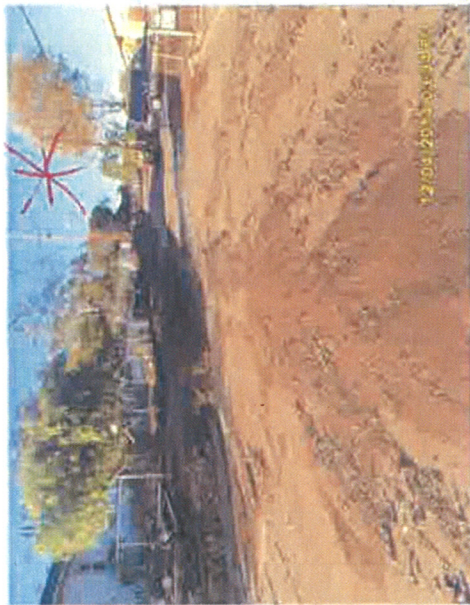
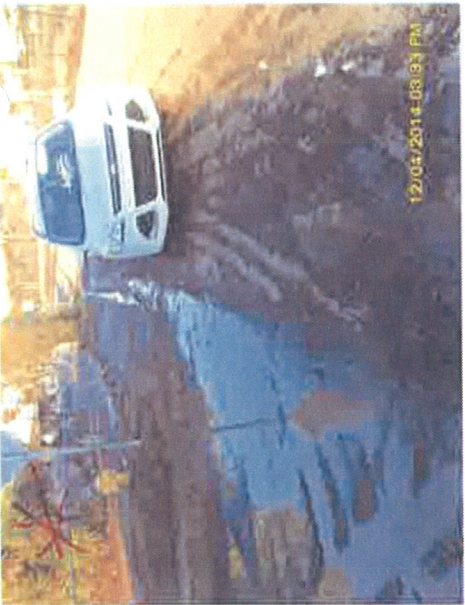
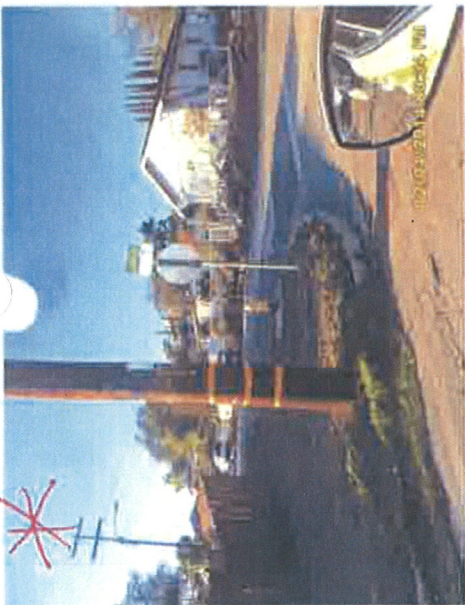
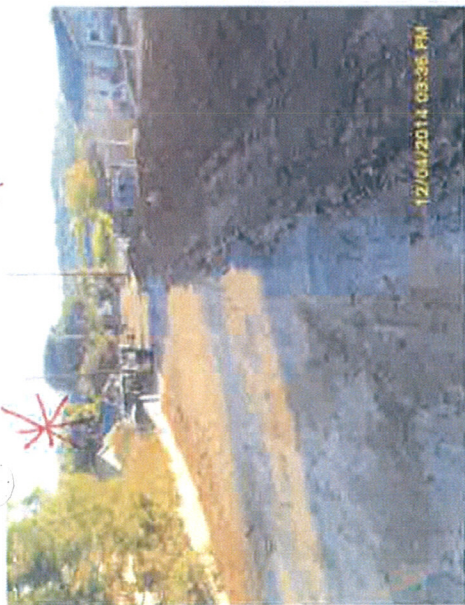






Exhibit No. 4

CITY OF LEMON GROVE  
3232 Main Street, Lemon Grove, CA 91945**NPDES STORMWATER PROGRAM  
CONSTRUCTION STORMWATER COMPLIANCE INSPECTION FORM**Inspector Name /Signature/Date/Time: Harpes / [Signature] / 12/8/14 10:00 amInspection: ☐ Permit-Required Inspection ☐ Follow-up Inspection ☒ Other (Explain) Weekly (pre storm)Construction Project Priority: ☐ High ☒ Medium ☐ Low Friday = 95% to**GENERAL INFORMATION**Grading or Building Permit #: ~~GR-1089~~ GR-1692Project Name & Type: Valencia, HomesProject Location & Address: SAN AITO'S PLACEContractor's Name & Telephone #: ANDERSON DEV (949) 275-673Property Owner & Telephone #: SAN AITO'S LLCIs this Project Greater than an Acre? ☒ Yes ☐ No ☐ N/AIf yes: Provide Record of Waste Discharge Identification Number (WDID#): 937C 369 143Does this Project have an NOI/SWPPP Available? ☐ Yes ☐ No ☐ N/AIs Weather Triggered Action Plan Completed? ☒ Yes ☐ No ☐ N/AIs Advanced Treatment Implemented Appropriately? ☐ Yes ☐ No ☒ N/AIs More than 17 Acres of Cleared or Graded Areas Left Exposed at Any Given Time? ☐ Yes ☒ No ☐ N/AIs 125% of Materials to Install Standby BMPs Available? ☐ Yes ☒ No ☐ N/AAre Routine Self-Inspections Being Conducted by Developer/Owner? ☒ Yes ☐ No ☐ N/AProject Site is in What Sub-Watershed: ☒ Chollas Creek 908.22 ☐ Sweetwater River 909.12Nearest Conveyances or Water Bodies: MSH

BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
<b>Soil Stabilization and Erosion Prevention</b>					
Preservation of existing vegetation?	<u>Y</u>			<u>on all slopes</u>	<u>Y</u>
Physical Stabilization: Hydraulic Mulch, Hydroseeding, Soil Binders, Straw Mulch	<u>Y</u>			<u>HYDRO SEED TODAY</u>	<u>Y</u>
Geotextiles, Plastic Covers, Erosion Prevention Blankets, Wood Mulching	<u>Y</u>				
Site Drainage: Outlet Protection/Slope Drain					
Inlet/Outlet Protection					
<b>Sediment Control/Containment</b>					
Perimeter Protection: Silt Fencing, Gravel Bags, Fiber Rolls	<u>Y</u>				<u>N</u>
Storm Drain inlet protection: Sediment Trap, De-silting Basin, Gravel Bag Barrier	<u>Y</u>			<u>inlet to be cleaned</u>	<u>N</u>



BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
Tracking Controls: Stabilized Entrance/Exit Road Stabilization, Tire Wash, Street Sweeping				ENTRANCE BEING REGULATED, ST. Sweep THIS WEEK	
<b>Materials and Equipment Management</b>					
Are materials and wastes stored in a manner that minimizes or eliminates the potential to discharge these materials to the storm drain system, is secondary containment used?	Y				Y
Are material stockpiles protected: covered, contained and located away from non-storm water discharges?		N		NEED TO COVER STOCK PILES	N
Are heavy equipment and vehicles parked in designated areas with permeable surface?		N		VEHICLES IN USE	Y
Are appropriate spill response and containment measures kept on the site?	Y				Y
Are wastes managed and stored properly (Solid, liquid, sanitary, concrete, hazardous)	Y				Y
Are concrete washouts properly installed, maintained with no evidence of discharges.		N		NO CONC WORK	Y
Is timely service and removal provided to prevent waste containers and sanitary facilities from overflowing?	Y				Y
<b>Non-Storm Water Management</b>					
Is the site free of evidence of illegal connections and/or illicit discharges?					
<b>Discharge Locations</b>					
Are the discharge locations free of significant erosion or sediment transport?		N		STILL CLEANING -	NO
<b>Other</b>					
Are there any other potential storm water pollution issues/concerns?		N			
Was there any employee or subcontractor training on stormwater BMPs?		N			

#### VIOLATIONS

- ☐ No violations noted at time of inspection/investigation
- ☐ No violations; however, recommended corrective actions required
  - ☐ Inspection Form as Correct Work Notice ☐ Correct Work Notice Issued on: \_\_\_\_\_
- ☐ Violation: Illegal Discharge/Illegal Connection/Improper BMPs Implementation
  - ☒ Stop Work Notice Issued on: 12/4/14

#### RECOMMENDED CORRECTIVE ACTION

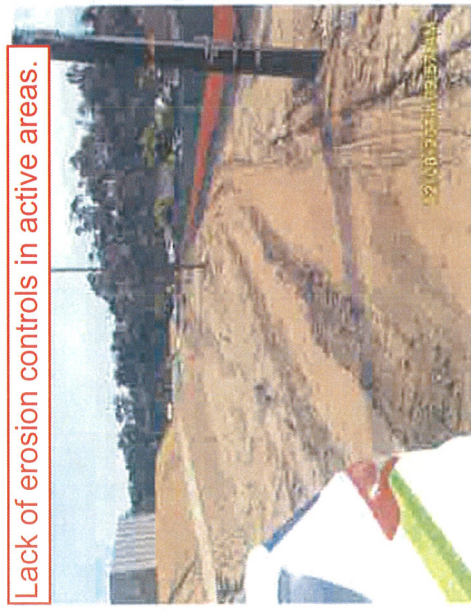
NOT WRITTEN LAST WEEK, CONTRACTOR WORKING ON  
ITEMS



Incovered stockpile.



Lack of erosion controls in active areas.



Lack of erosion controls in inactive areas.

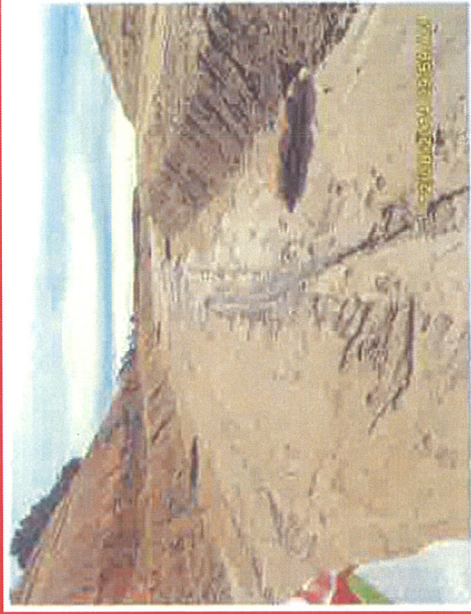






Exhibit No. 5

# NOTICE

DATE:

PROJECT:

PROJECT #:

ADDRESS:

12/9/14

VALENCIA

Gr-1692

SAN ALTO PLAZA

## ☐ STOP WORK/NOTICE OF VIOLATION

Stop all other work until erosion control/NPDES deficiencies noted below are corrected. Issuance of this Stop Work Notice will notify the Regional Water Quality Control Board regarding your BMP deficiencies. This may subject you to fines of up to \$10,000/day.

## ☒ CORRECT WORK

Correct noted deficiencies within the specified time frame to avoid a Stop Work Notice:

☒ 24 Hours ☐ 72 Hours ☐ 5 Days ☐ Prior to October 1<sup>st</sup>, And/Or ☐ Before Rain Event

### THIS PROJECT IS IN CONFLICT WITH THE FOLLOWING:

☒ City of Lemon Grove Grading Ordinance\*

☒ City of Lemon Grove JURMP

☐ Other: \_\_\_\_\_

### THE AREAS OF CONFLICT ARE:

☐ Erosion control is not on site

☐ Erosion control is not per the approved plan

☒ Erosion control is inadequate

☐ Failure to maintain erosion/sediment control device

☐ Other: \_\_\_\_\_

### THE FOLLOWING DEFICIENCIES ARE NOTED:

☐ Stabilized construction entrance

☐ Runoff from the site

☐ Desilting basin

☐ Perimeter protection at toe of slope

☐ Waste/materials storage

☐ Concrete washout inadequate, not maintained

☐ No secondary containment

☒ Cover stockpiles

☐ No storm drain inlet/outlet protection

☐ Trash/debris not managed

☒ Cover on sloped and/or flat areas that are inactive for more than 10 days

☐ Other: \_\_\_\_\_

\*\*\*STOP/ CORRECT WORK ADEQUATELY ADDRESSED (DATE/SIGNATURE) \_\_\_\_\_

CC: ☒ City Engineer

☒ Engineering

☐ Management Analyst

☐ Code Compliance

☐ Building

☐ RWQCB

ISSUED TO:

DATE/TIME:

BY:

TITLE:

PHONE:

TIM ANDERSON via Email

12/9/14 6:30 PM

GARY HANCOCK

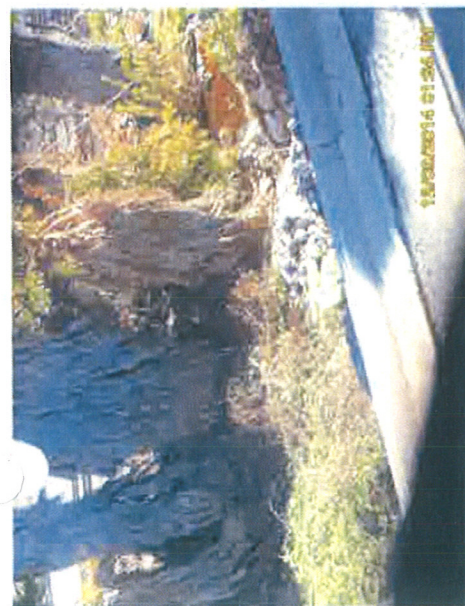
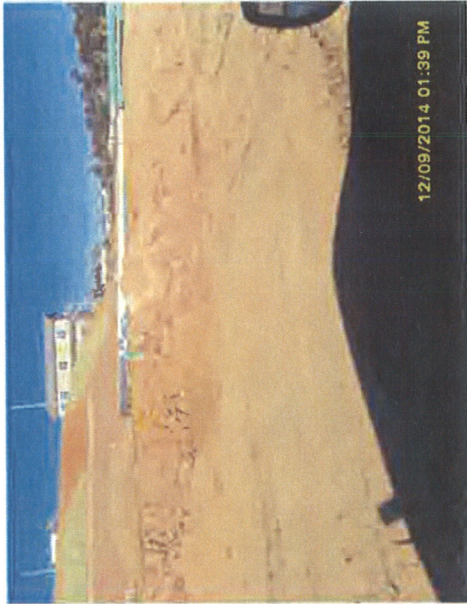
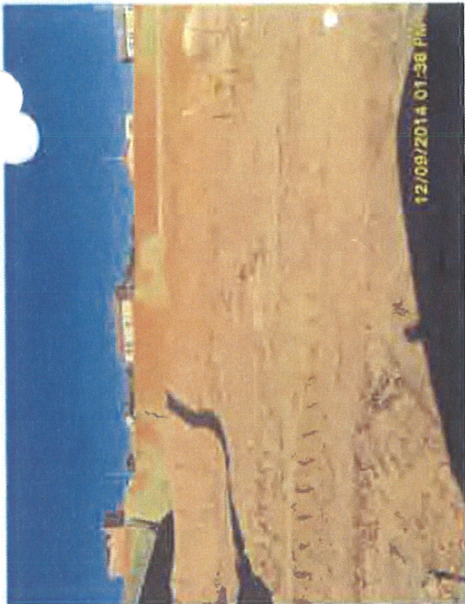
ENG. INSPECTOR

(619) 454-1272

IF YOU HAVE FURTHER QUESTIONS, PLEASE  
CALL THE CITY OF LEMON GROVE'S  
DEVELOPMENT SERVICES DEPARTMENT AT  
(619) 825-3805.

\* Having deficiencies in your erosion control is a violation of the City of Lemon Grove's Grading Ordinance. A violation of the City's Grading Ordinance is a misdemeanor. Each separate day or portion thereof on which a violation exists or is allowed to exist shall constitute a separate offense punishable by the provisions of the Ordinance.







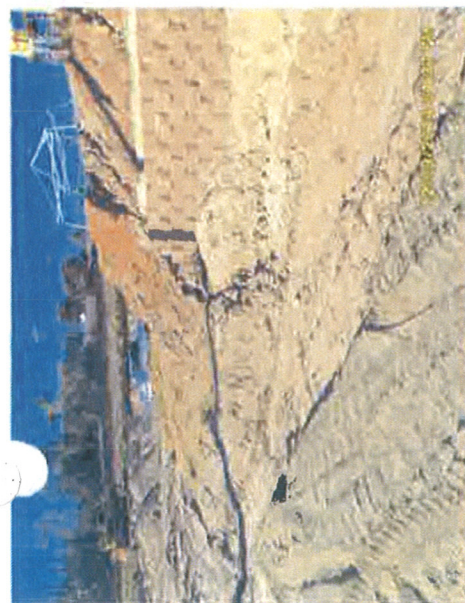
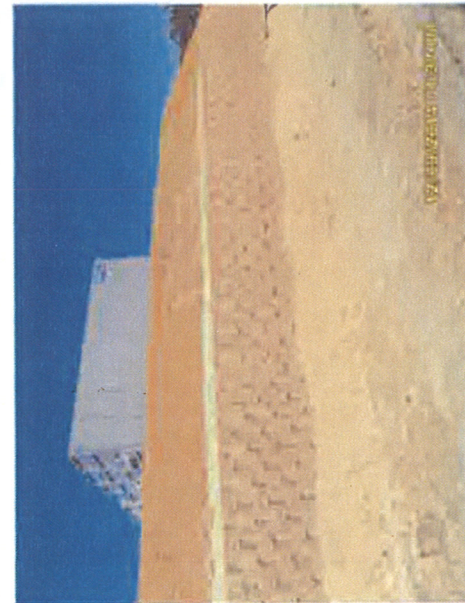
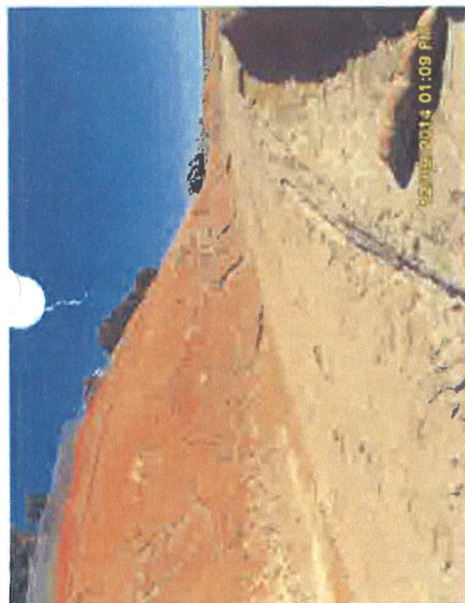
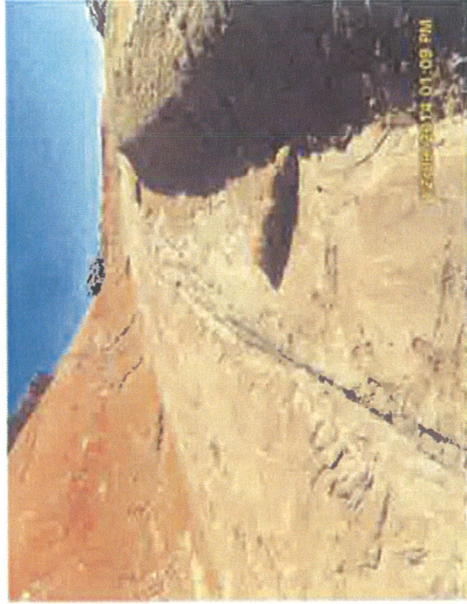
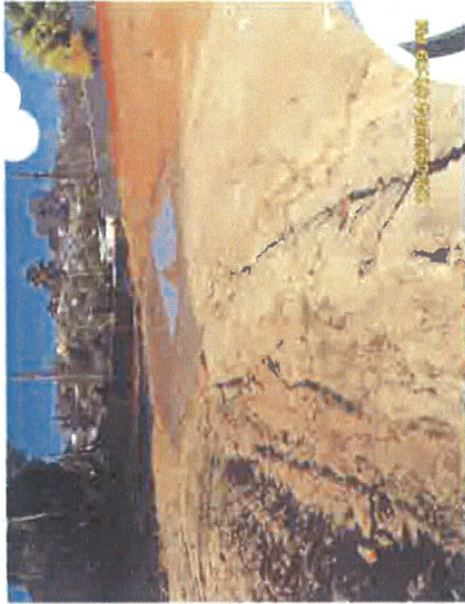






Exhibit No. 6

# CITY OF LEMON GROVE ADMINISTRATIVE CITATION

**A) TYPE OF VIOLATION**

Circle One: Warning 1<sup>st</sup> Citation \$100 2<sup>nd</sup> Citation \$200 3<sup>rd</sup> Citation \$500 4<sup>th</sup> Citation \$1,000

Payment of \$        is due no later than        to the City of Lemon Grove.  
The City accepts cash, check or credit card.

If the violation is not corrected by the date specified therein and/or payment is not received by the date above, the next level of citation may be issued, other enforcement actions may occur, and penalties may be assessed (25% and interest at the rate of 10% per month). Payment of fine does not excuse or discharge the failure to correct violation identified below.

**B) RESPONSIBLE PARTY INFORMATION**

Person Cited: Anderson Tim  
(Last Name) (First Name)

Circle One: Property Owner Tenant Business Owner Other Site Representative

Mailing Address: 3194-C2 Airport Loop Drive 1 Project Manager

Business Name (if applicable): Corta Mesa, CA 92626  
BCA Development

**C) VIOLATION(S) INFORMATION**

Date (Violation Observed): 12/11/14 Time (Violation Observed): 4:00-5:00 P.M.

Location of Violation: 1350 San Altos, LG / Valencia  
(Street Address) (APN)

Violation(s) Observed (Code Section and Description):  
B.48.060 18.08.560 Inadequate BMP's - see  
18.08.170 attached inspection reports  
18.08.180

**D) CORRECTION(S) REQUIRED (with date to complete corrections)**

Install BMP's per Recommendations 12/15/14  
Maintain adequate surplus of BMP's 5:00 P.M.

**E) SERVICING CITATION INFORMATION**

Enforcing Officer Name Leon Fingst Phone No. 619-825-3825 Signature [Signature] Date 12/11/14

Person Cited - Signature Acknowledging Receipt \_\_\_\_\_ (Date)

Citation Served (circle one): In Person By Mail / Email Posted on Property

This citation may be appealed within thirty (30) days from date of correction identified in Section D. To request an appeal, a Request an Appeal Hearing form (available at City Hall) should be completed and returned to City Hall. In the event a Hardship Waiver is requested, the Request for an Appeal Hearing and Hardship Waiver forms are required within fifteen (15) days from the correction date identified in Section D.

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CITATION CARD-OWNER



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Title 8 HEALTH AND SAFETY							
Chapter 8.48 STORMWATER MANAGEMENT AND DISCHARGE CONTROL							

### **8.48.060 Best management practice requirements and general requirements applicable to all dischargers.**

A. **Applicable Requirements.** All dischargers in the city must comply with the generally applicable prohibitions and requirements in Sections 8.48.010 through 8.48.060 of this chapter, and must also comply with any other parts of this chapter (including relevant parts of the Manual) that are applicable to the type of facility or activity owned or operated by that discharger.

B. **Minimum Best Management Practices for All Dischargers.** All dischargers in the city must install, implement and maintain at least the following minimum BMPs:

1. **Eroded Soils.** Prior to the rainy season, dischargers must remove or secure any significant accumulations of eroded soils from slopes previously disturbed by clearing or grading, if those eroded soils could otherwise enter the stormwater conveyance system or receiving waters during the rainy season.
2. **Pollution Prevention.** Dischargers employing ten or more persons on a full-time basis shall implement those stormwater pollution prevention practices that are generally recognized in that discharger's industry or business as being effective and economically advantageous.
3. **Prevention of Illegal Discharges.** Illicit connections must be eliminated (even if the connection was established pursuant to a valid permit and was legal at the time it was constructed), and illegal discharge practices eliminated.
4. **Slopes.** Completed slopes that are more than five feet in height, more than two hundred fifty square feet in total area, and steeper than 3:1 (run-to-rise) that have been disturbed at any time by clearing, grading, or landscaping, shall be protected from erosion prior to the first rainy season following completion of the slope, and continuously thereafter.
5. **Storage of Materials and Wastes.** All materials and wastes with the potential to pollute urban runoff shall be stored in a manner that either prevents contact with rainfall and stormwater, or contains contaminated runoff for treatment and disposal.
6. **Use of Materials.** All materials with the potential to pollute urban runoff (including, but not limited to, cleaning and maintenance products used outdoors, fertilizers, pesticides and herbicides, etc.) shall be used in accordance with label directions. No such product may be disposed of or rinsed into receiving waters or the stormwater conveyance system.

C. **Inspection, Maintenance, Repair and Upgrading of BMPs.** BMPs at manned facilities must be inspected by the discharger before and following predicted rain events. BMPs at unmanned facilities must be inspected by the discharger at least once during the rainy season and at least once between each rainy season. These BMPs must be maintained so that they continue to function as designed. BMPs that fail must be repaired as soon as it is safe to do so. If the failure of a BMP indicates that the BMPs in use are inappropriate or inadequate to the circumstances, the BMPs must be modified or upgraded to prevent any further failure in the same or similar circumstances.

D. **Stormwater Pollution Prevention Plan.** An authorized enforcement official may require a commercial, industrial or land disturbance activity discharger to prepare and submit an SWPPP for approval by that official if: (1) the discharger does not come into compliance with this chapter after one or more warnings (or other enforcement action) that BMPs are inadequate or are not being adequately maintained; or (2) the facility or activity at issue is a significant source of contaminants to receiving waters despite compliance with this

chapter. Any discharger required to submit and to obtain approval of an SWPPP shall install, implement, and maintain the BMPs specified in the approved SWPPP.

The SWPPP shall identify the BMPs that will be used by the discharger to prevent or control pollution of stormwater to the MEP. If the facility is an industrial facility, the SWPPP submitted to the city shall at a minimum meet the requirements of the state NPDES general industrial stormwater permit. If the activity at issue is a construction or land disturbance activity, the SWPPP submitted to the city shall at a minimum meet the requirements of the state NPDES general construction stormwater permit. If a facility required to submit an SWPPP to the city discharges non-stormwater to groundwater, the facility shall obtain an RWQCB permit as required by the State Water Code, and shall describe the requirements of that permit in the SWPPP.

Whenever submission of an SWPPP is required pursuant to this chapter, an authorized enforcement official may take existing city BMPs into account when determining whether the practices proposed in the SWPPP are BMPs that will prevent or control pollution to the required level of MEP.

E. Notification of Spills, Releases and Illegal Discharges. Spills, releases, and illegal discharges of pollutants to receiving waters or to the stormwater conveyance system shall be reported by the discharger as required by all applicable state and federal laws. In addition, any such spills, releases and illegal discharges with the potential to endanger health, safety or the environment shall be reported to the Directors within twenty-four hours after discovery of the spill, release or discharge. If safe to do so, necessary actions shall be taken to contain and minimize the spill, release or illegal discharge.

F. Sampling, Testing, Monitoring and Reporting. Commercial, industrial or land disturbance activity dischargers shall perform the sampling, testing, monitoring and reporting required by this chapter. In addition, an authorized enforcement official may order a discharger to conduct testing or monitoring and to report the results to the city if: (1) the authorized enforcement official determines that testing or monitoring is needed to determine whether BMPs are effectively preventing or reducing pollution in stormwater to the MEP, or to determine whether the facility is a significant source of contaminants to receiving waters; or (2) the authorized enforcement official determines that testing or monitoring is needed to assess the impacts of an illegal discharge on health, safety or the environment; or (3) an illegal discharge has not been eliminated after written notice by an authorized enforcement official; or (4) repeated violations have been documented by written notices from authorized enforcement officials; or (5) the RWQCB requires the city to provide any information related to the discharger's activities.

Testing and monitoring ordered pursuant to this subsection may include the following:

1. Visual monitoring of dry weather flows, wet weather erosion, and/or BMPs;
2. Visual monitoring of premises for spills or discharges;
3. Laboratory analyses of stormwater or non-stormwater discharges for pollutants;
4. Background or baseline monitoring or analysis; and
5. Monitoring of receiving waters or sediments that may be affected by pollutant discharges by the discharger (or by a group of dischargers including the discharger).

The authorized enforcement official may direct the manner in which the results of required testing and monitoring are reported, and may determine when required sampling, testing or monitoring may be discontinued.

G. Mitigation. All illegal discharges must be mitigated within a reasonable period of time to correct or compensate for all damage to the environment caused by the illegal discharge. The authorized enforcement official shall determine whether mitigation measures proposed or completed by the discharger meet this standard. The authorized enforcement official shall require the discharger to submit a mitigation plan and schedule by a specified date prior to taking action, and to submit a summary of completed mitigation by a specified date. Notwithstanding the granting of any period of time to the discharger to correct the damage, the

discharger shall remain liable for some or all of any fines or penalties imposed pursuant to this chapter, or by the RWQCB. (Ord. 369 § 1, 2008)

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<a href="#">Article II. Permits and Fees</a>							

**18.08.170 Erosion control required.**

A. Plans for an erosion control system shall be prepared and submitted for the review and approval of the city engineer as a part of any application for a construction permit. The erosion control system shall comply with the requirements of the latest national pollutant discharge elimination system permit, Chapters 8.48 and this chapter to satisfy the requirements for erosion control and eliminate the discharge of sediment and pollutants. The erosion control plan shall include, but not be limited to, the following information:

1. Name, address, and a twenty-four hour phone number of the owner or responsible party, and the person or contractor responsible for installing and maintaining the erosion control system and performing emergency erosion control work;
2. The name, address and signature of the civil engineer or person who prepared the plan;
3. All desilting basins, debris basins, silt traps, and other desilting, velocity retarding and protection facilities necessary to adequately protect the site and downstream properties from erosion and its effects, preserve natural hydrologic features, and preserve riparian buffers and corridors;
4. The streets, easements, drains, and other improvements;
5. The location and placement of gravel bags, diverters, check dams, slope planting, drains, and other erosion controlling devices and measures;
6. Access routes to all such erosion control facilities and how access shall be maintained during inclement weather.

B. Erosion control system standards shall be as follows:

1. The faces of cut-and-fill slopes and the project site shall be prepared and maintained to control against erosion. Where cut slopes are not subject to erosion due to the erosion-resistant character of the materials, such protection may be omitted upon approval of the city engineer.
2. Where necessary, temporary and/or permanent erosion control devices such as desilting basins, check dams, cribbing, riprap, or other devices or methods as approved by the city engineer, shall be employed to control erosion, prevent discharge of sediment, and provide safety.
3. Temporary desilting basins constructed of compacted earth shall be compacted to a relative compaction of ninety percent of maximum density. A gravel bag or plastic spillway must be installed for overflow, as designed by the engineer of work, to avoid failure of the earthen dam. A soils engineering report prepared by the soils engineer, including the type of field-testing performed, location and results of testing shall be submitted to the city engineer for approval upon completion of the desilting basins.
4. Desilting facilities shall be provided at drainage outlets from the graded site, and shall be designed to provide a desilting capacity capable of containing the anticipated runoff for a period of time adequate to allow reasonable settlement of suspended particles.
5. Desilting basins shall be constructed around the perimeter of projects, whenever feasible, and shall provide improved maintenance access from paved roads during wet weather. Grading cost estimates must include maintenance and ultimate removal costs for temporary desilting basins.
6. The erosion control provisions shall take into account drainage patterns during the current and future phases of grading.

7. All removable protective devices shown shall be in place at the end of each working day when there is a fifty percent chance of rain within a forty-eight hour period. If the developer does not provide the required installation or maintenance of erosion control structures within two hours of notification at the twenty-four hour number on the plans, the city engineer may order city crews to do the work or may issue contracts for such work and charge the cost of this work along with reasonable overhead charges to the cash deposits or other instruments implemented for this work without further notification to the owner. No additional work on the project except erosion control work may be performed until the full amount drawn from the deposit is restored by the developer.

8. At any time of year, an inactive site shall be fully protected from erosion and discharges of sediment. Flat areas with less than five percent grade shall be fully covered unless sediment control is provided through desiltation basins at all project discharge points. A site is considered inactive if construction activities have ceased for a period of ten or more consecutive days.

C. No grading work shall be allowed between October 1st and the following April 30th on any site when the city engineer determines that erosion, mudflow or sediment or silt discharge may adversely affect downstream properties, drainage courses, storm drains, streets, easements, or public or private facilities or improvements unless an approved erosion control system has been implemented on the site. If the city determines that it is necessary for the city to cause erosion control measures to be installed or cleanup to be done, the developer shall pay all of the city's direct and indirect costs including extra inspection, supervision, and reasonable overhead charges. (Ord. 371 § 1, 2008)

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<a href="#">Chapter 18.08 EXCAVATION AND GRADING</a>							
<a href="#">Article II. Permits and Fees</a>							

**18.08.180 BMP maintenance.**

All BMPs for erosion prevention and sediment control shall be functional at all time. Prior to the rainy season and after each major storm, all source control and structural treatment BMPs shall be inspected to assure the functionality. BMP maintenance shall be conducted throughout the life of the project. (Ord. 371 § 1, 2008)

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<a href="#">Title 18 CITYWIDE REGULATIONS</a>							
<a href="#">Chapter 18.08 EXCAVATION AND GRADING</a>							
<a href="#">Article V. Grading Operations</a>							

**18.08.560 Responsibility of permittee.**

It shall be the responsibility of the permittee to know the conditions and/or restrictions placed on the grading permit and as outlined in applicable sections of this chapter, and as continued on the approved report (s) and to insure that all contractors, subcontractors, employees, agents and consultants are also knowledgeable of the same, and insure that they carry out the proposed work in accordance with the approved plans and specifications and with the requirements of the permit and this chapter. The permittee shall also be responsible to maintain in an obvious and accessible location on the site, a copy of the permit and grading plans bearing the approval of the city engineer. (Ord. 371 § 1, 2008)

Date: 12/11/14 5:00 P.M. Project: Valencia

☐ Meeting ☐ Phone ☒ Site Visit

Attendees: Leon + Gary

Notes: Site inspection to review recommended "Construction BMP Recommendations" from 12/9/14 inspection (attach

- ① No erosion control provided.
- ② Insufficient / Improperly installed check dams.
- ③ Repair + stabilization of gullies not completed.
- ④ Not completed.
- ⑤ Completed.
- ⑥ Not visible.
- ⑦ Mostly complete.
- ⑧ N/A



# National Weather Service Forecast Office San Diego, CA

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## Warnings and/or Advisories In Effect for this Point:

**Flash Flood Watch**

**Wind Advisory**

For warnings and/or advisories in effect for adjacent areas to this point,  
see <http://www.wrh.noaa.gov/sgx>

Change Table Font Size Increase Decrease

Forecast For Lat/Lon: 32.7370/-117.0200 (Elev. 492 ft)

Lemon Grove CA

Forecast Created at: 6pm PST Dec 11, 2014

Custom Weather Forecast Table

	Thu Dec 11	Fri Dec 12	Sat Dec 13	Sun Dec 14	Mon Dec 15	Tue Dec 16
Weather	Chance Rain	Slight Chance Rain Rain and Showers TStorms	Likely Rain Showers and Rain	Chance Rain	Chance Rain	Likely Rain
Daily-Temp	High 67 Low 53	High 63 Low 58	High 63 Low 51	High 65 Low 48	High 64 Low 50	High 64 Low 52
Chance of Precip	0% 0% 5% 45%	100% 90% 65% 75%	30% 15% 5% 5%	5% 5% 5% 5%	5% 40% 40% 55%	55% 60% 60% 40%
Precip	0.00" 0.00" 0.00" 0.01"	0.57" 0.29" 0.06" 0.12"	0.00" 0.00" 0.00" 0.00"	0.00" 0.00" 0.00" 0.00"		
12-hr Snow Total	0" 0" 0" 0"	0" 0" 0" 0"	0" 0" 0" 0"	0" 0" 0" 0"	0" 0" 0" 0"	0" 0" 0" 0"
FRET	0.06"	0.06"	0.05"	0.06"	0.07"	0.07"
6-Hour Temp	4am 10am 4pm 10pm 53 62 65 60	4am 10am 4pm 10pm 52 61 60 54	4am 10am 4pm 10pm 52 59 52 49	4am 10am 4pm 10pm 51 59 61 54	4am 10am 4pm 10pm 51 59 61 55	4am 10am 4pm 10pm 51 59 61 55
Cloudiness	86% 49% 75% 100%	100% 91% 84% 75%	69% 51% 30% 37%	31% 21% 30% 30%	41% 41% 62% 62%	90% 90% 87% 87%
Dewpoint	52 53 54 53	52 54 52 50	49 48 46 46	43 44 44 48	44 43 45 49	47 51 49 51
Relative Humidity	94% 73% 67% 78%	77% 73% 88%	89% 69% 61% 81%	80% 57% 52% 81%	79% 57% 54% 81%	82% 72% 63% 88%
Wind	S S S S 2 7 8 10	SE W SW W 15 6 6 6	E W NW E 2 2 5 3	E N W E 3 1 5 5	E S SW SE 6 7 7 7	SE S S S 8 9 7 6
Snow Level (ft)	9317 9161	7608 6313 5478 5212	5704		6701 5923 5850 5993 5805 5704 561	

## Forecast Weather Table Interface

Enter a Location or Click on Map Below

Select Weather Format

- ☐ Custom Weather Table  
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☐ Hourly Tabular Forecast  
☐ Hourly Weather Graph

Interval in Hours: ☐ 1 ☐ 3 ☐ 6

Duration in Days: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7

Search by address, city, state, latitude/longitude...





CITY OF LEMON GROVE  
3232 Main Street, Lemon Grove, CA 91945

## NPDES STORMWATER PROGRAM CONSTRUCTION STORMWATER COMPLIANCE INSPECTION FORM

Inspector Name /Signature/Date/Time: TAD NAKATANI / [Signature] / 12/11/14 9:00AM

Inspection: ☐ Permit-Required Inspection ☒ Follow-up Inspection ☐ Other (Explain) \_\_\_\_\_

Construction Project Priority: ☐ High ☒ Medium ☐ Low

### GENERAL INFORMATION

Grading or Building Permit #: Gr-1692

Project Name & Type: VALENCIA SUBDIVISION

Project Location & Address: SAN ALTOS PLACE

Contractor's Name & Telephone #: ANDERSON DEVELOPMENT (949) 275-6739

Property Owner & Telephone #: SAN ALTOS LLC

Is this Project Greater than an Acre? ☒ Yes ☐ No ☐ N/A

If yes: Provide Record of Waste Discharge Identification Number (WDID#): 937C369143

Does this Project have an NOI/SWPPP Available? ☒ Yes ☐ No ☐ N/A

Is Weather Triggered Action Plan Completed? ☐ Yes ☐ No ☒ N/A

Is Advanced Treatment Implemented Appropriately? ☐ Yes ☐ No ☒ N/A

Is More than 17 Acres of Cleared or Graded Areas Left Exposed at Any Given Time? ☐ Yes ☒ No ☐ N/A

Is 125% of Materials to Install Standby BMPs Available? ☐ Yes ☒ No ☐ N/A

Are Routine Self-Inspections Being Conducted by Developer/Owner? ☐ Yes ☐ No ☐ N/A

Project Site is in What Sub-Watershed: ☒ Chollas Creek 908.22 ☐ Sweetwater River 909.12

Nearest Conveyances or Water Bodies: \_\_\_\_\_

BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
<b>Soil Stabilization and Erosion Prevention</b>					
Preservation of existing vegetation?			<input checked="" type="checkbox"/>		
Physical Stabilization: Hydraulic Mulch, Hydroseeding, Soil Binders, Straw Mulch	<input checked="" type="checkbox"/>			Gruttes & unstabilized pads still not addressed	No
Geotextiles, Plastic Covers, Erosion Prevention Blankets, Wood Mulching	<input checked="" type="checkbox"/>			some plastic sheets added but not yet sufficient	No
Site Drainage: Outlet Protection/Slope Drain		<input checked="" type="checkbox"/>			
Inlet/Outlet Protection	<input checked="" type="checkbox"/>			see inlet protection comment below	No
<b>Sediment Control/Containment</b>					
Perimeter Protection: Silt Fencing, Gravel Bags, Fiber Rolls	<input checked="" type="checkbox"/>			Additional fiber rolls not placed on slopes yet	No
Storm Drain inlet protection: Sediment Trap, De-silting Basin, Gravel Bag Barrier	<input checked="" type="checkbox"/>			Per discussion w/contractor, they still need to add gravel bag inlet protection	No



BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
Tracking Controls: Stabilized Entrance/Exit Road Stabilization, Tire Wash, Street Sweeping	X			NE entrance still not stabilized but not currently in use	No
<b>Materials and Equipment Management</b>					
Are materials and wastes stored in a manner that minimizes or eliminates the potential to discharge these materials to the storm drain system, is secondary containment used?	X				Yes
Are material stockpiles protected: covered, contained and located away from non-storm water discharges?	X			still need to protect all stockpiles	No
Are heavy equipment and vehicles parked in designated areas with permeable surface?	X				Yes
Are appropriate spill response and containment measures kept on the site?	X				Yes
Are wastes managed and stored properly (Solid, liquid, sanitary, concrete, hazardous)	X				Yes
Are concrete washouts properly installed, maintained with no evidence of discharges.	X				Yes
Is timely service and removal provided to prevent waste containers and sanitary facilities from overflowing?	X				Yes
<b>Non-Storm Water Management</b>					
Is the site free of evidence of illegal connections and/or illicit discharges?	X				Yes
<b>Discharge Locations</b>					
Are the discharge locations free of significant erosion or sediment transport?		X		still need to clean sediment on Akins	No
<b>Other</b>					
Are there any other potential storm water pollution issues/concerns?	X			Regrading stabilization still needed	No
Was there any employee or subcontractor training on stormwater BMPs?			X		

#### VIOLATIONS

- ☐ No violations noted at time of inspection/investigation  
☒ No violations; however, recommended corrective actions required  
☒ Inspection Form as Correct Work Notice ☐ Correct Work Notice Issued on: \_\_\_\_\_  
☐ Violation: Illegal Discharge/Illegal Connection/Improper BMPs Implementation  
☐ Stop Work Notice Issued on: \_\_\_\_\_

#### RECOMMENDED CORRECTIVE ACTION

FLOW ALONG SOUTHERN EDGE OF SITE HAS BEEN REDIRECTED AWAY FROM THE CORNER. ALL OTHER CORRECTIVE ACTIONS FROM THE 12/9/14 INSPECTION HAVE NOT YET BEEN ADDRESSED. REFER TO THAT INSPECTION FOR FULL DESCRIPTION OF CORRECTIVE ACTIONS.





CITY OF LEMON GROVE  
3232 Main Street, Lemon Grove, CA 91945

## NPDES STORMWATER PROGRAM CONSTRUCTION STORMWATER COMPLIANCE INSPECTION FORM

Inspector Name /Signature/Date/Time: TAD NAKATANI 12/9/14 1:00 pm

Inspection: ☒ Permit-Required Inspection ☐ Follow-up Inspection ☐ Other (Explain) \_\_\_\_\_

Construction Project Priority: ☒ High ☒ Medium ☐ Low

### GENERAL INFORMATION

Grading or Building Permit #: Gr-1692

Project Name & Type: VALENCIA SUBDIVISION

Project Location & Address: SAN ALTOS PLACE

Contractor's Name & Telephone #: ANDERSON DEVELOPMENT (949) 275-6739

Property Owner & Telephone #: SAN ALTOS LLC

Is this Project Greater than an Acre? ☒ Yes ☐ No ☐ N/A

If yes: Provide Record of Waste Discharge Identification Number (WDID#): 937C369143

Does this Project have an NOI/SWPPP Available? ☒ Yes ☐ No ☐ N/A

Is Weather Triggered Action Plan Completed? ☐ Yes ☐ No ☒ N/A

Is Advanced Treatment Implemented Appropriately? ☐ Yes ☐ No ☒ N/A

Is More than 17 Acres of Cleared or Graded Areas Left Exposed at Any Given Time? ☐ Yes ☐ No ☐ N/A

Is 125% of Materials to Install Standby BMPs Available? ☐ Yes ☒ No ☐ N/A

Are Routine Self-Inspections Being Conducted by Developer/Owner? ☐ Yes ☐ No ☐ N/A

Project Site is in What Sub-Watershed: ☒ Chollas Creek 908.22 ☐ Sweetwater River 909.12

Nearest Conveyances or Water Bodies: \_\_\_\_\_

BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
<b>Soil Stabilization and Erosion Prevention</b>					
Preservation of existing vegetation?			<input checked="" type="checkbox"/>		
Physical Stabilization: Hydraulic Mulch, Hydroseeding, Soil Binders, Straw Mulch	<input checked="" type="checkbox"/>			Gullies through edges of hydroseeding Some pads not seeded, within road ending	No
Geotextiles, Plastic Covers, Erosion Prevention Blankets, Wood Mulching		<input checked="" type="checkbox"/>			
Site Drainage: Outlet Protection/Slope Drain		<input checked="" type="checkbox"/>			
Inlet/Outlet Protection		<input checked="" type="checkbox"/>			
<b>Sediment Control/Containment</b>					
Perimeter Protection: Silt Fencing, Gravel Bags, Fiber Rolls	<input checked="" type="checkbox"/>			Additional fiber rolls needed on western slope	No
Storm Drain inlet protection: Sediment Trap, De-silting Basin, Gravel Bag Barrier		<input checked="" type="checkbox"/>			



BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
Tracking Controls: Stabilized Entrance/Exit Road Stabilization, Tire Wash, Street Sweeping	X			NE entrance lacks stabilization	No
<b>Materials and Equipment Management</b>					
Are materials and wastes stored in a manner that minimizes or eliminates the potential to discharge these materials to the storm drain system, is secondary containment used?	X				Yes
Are material stockpiles protected: covered, contained and located away from non-storm water discharges?	X			Several <del>un</del> unprotected stockpiles	No
Are heavy equipment and vehicles parked in designated areas with permeable surface?	X				Yes
Are appropriate spill response and containment measures kept on the site?	X				Yes
Are wastes managed and stored properly (Solid, liquid, sanitary, concrete, hazardous)	X				Yes
Are concrete washouts properly installed, maintained with no evidence of discharges.	X				Yes
Is timely service and removal provided to prevent waste containers and sanitary facilities from overflowing?	X				Yes
<b>Non-Storm Water Management</b>					
Is the site free of evidence of illegal connections and/or illicit discharges?	X				Yes
<b>Discharge Locations</b>					
Are the discharge locations free of significant erosion or sediment transport?		X		Large amount of sediment on roadway SE of site	No
<b>Other</b>					
Are there any other potential storm water pollution issues/concerns?	X			Roadways within project are unstabilized and show signs of erosion	No
Was there any employee or subcontractor training on stormwater BMPs?			X		

### VIOLATIONS

- ☐ No violations noted at time of inspection/investigation  
☒ No violations; however, recommended corrective actions required  
☒ Inspection Form as Correct Work Notice ☐ Correct Work Notice Issued on: \_\_\_\_\_  
☐ Violation: Illegal Discharge/Illegal Connection/Improper BMPs Implementation  
☐ Stop Work Notice Issued on: \_\_\_\_\_

### RECOMMENDED CORRECTIVE ACTION

- Add erosion controls to all <sup>disturbed</sup> areas inactive for 10 days, including roadways not currently in use.
- Cover & protect stockpiles
- Repair/protect gullies that have formed on slopes
- Redirect flow near southeast corner so it does not flow toward damaged wall
- Sweep road outside of construction entrance
- Install check dams of stabilization on roadways prior to rain

### Construction BMP Recommendations

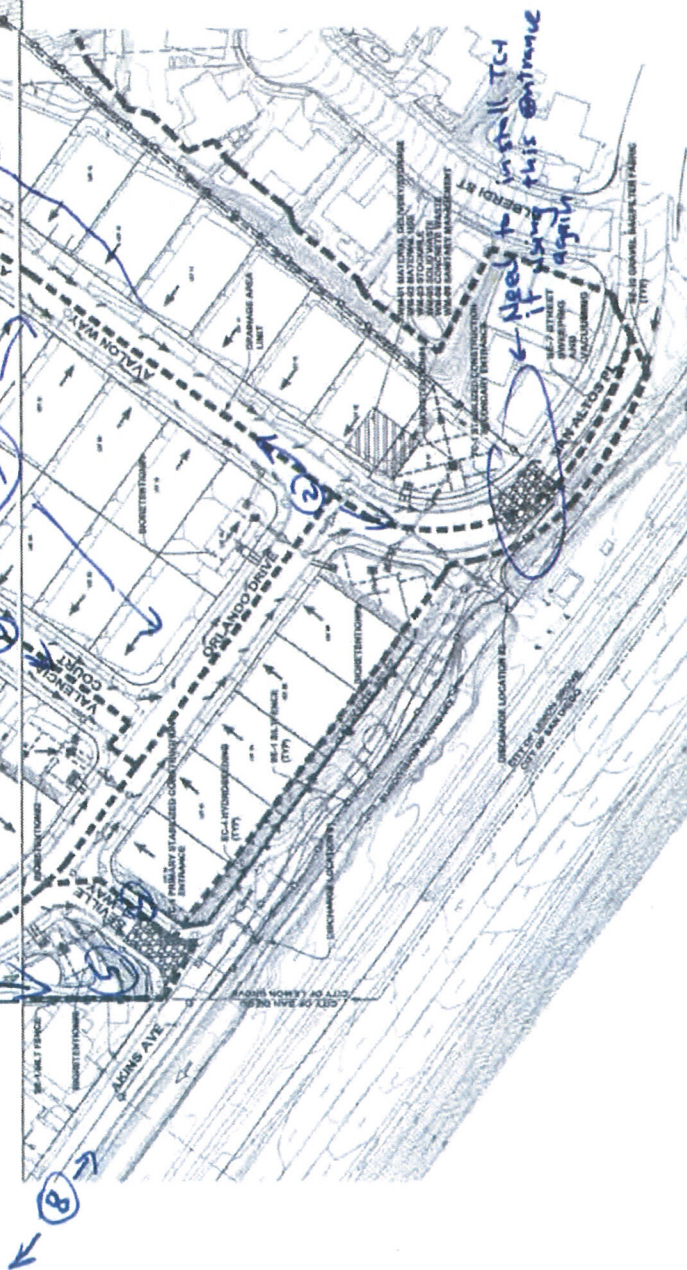
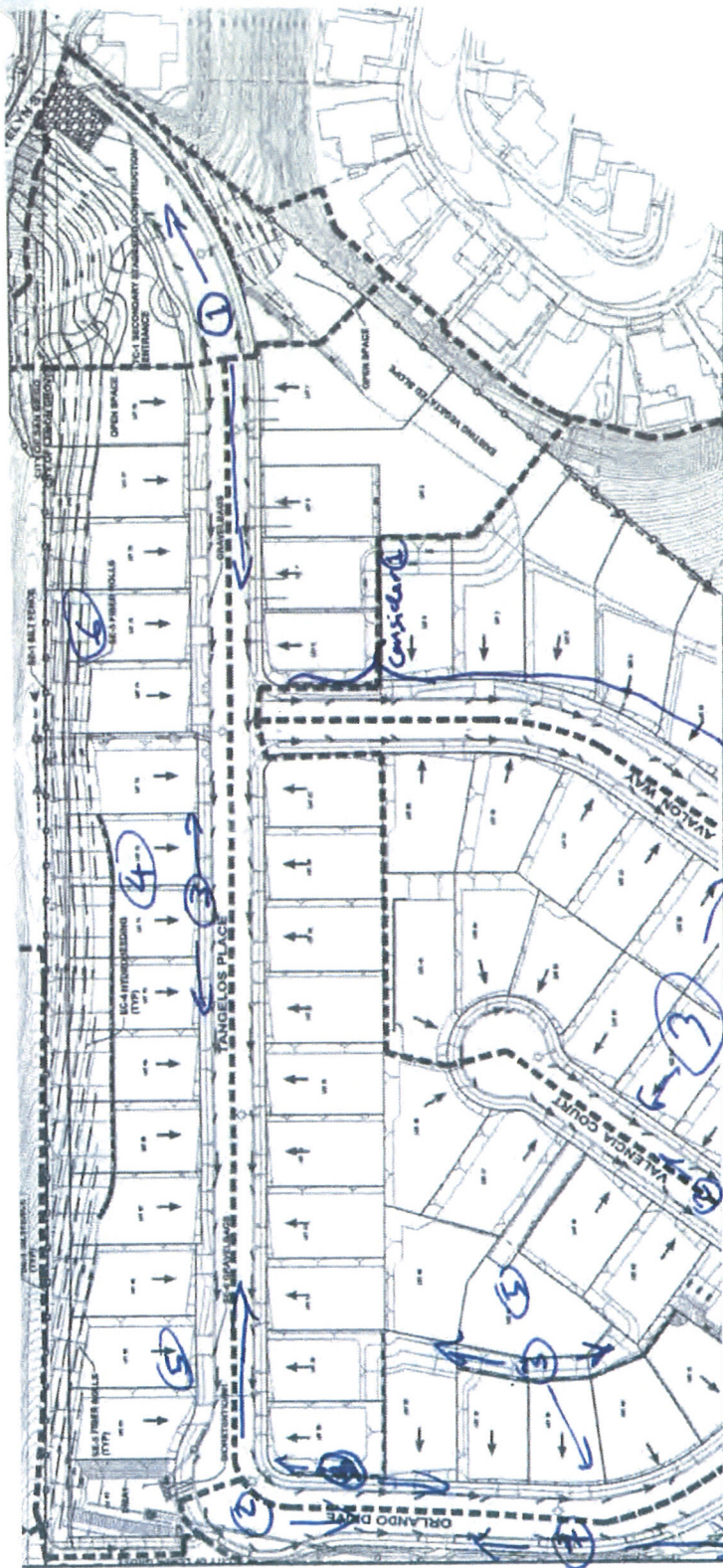
Site: VALENCIA SUBDIVISION

Date: 12/9/14

#### Recommendations:

- ① • Add erosion control to road segment (eg northern corner) that are not in use. Can be hydroseeded or stabilized with gravel.
- ② • For roads that are in use, add check dams prior to rain. Ensure proper installation to prevent rills from forming underneath BMP if using fiber rolls
- ③ • Repair <sup>stabilize</sup> gullies in slopes on edges of pads. May consider using erosion control blankets.
- ④ • A couple pads on western side do not appear hydroseeded. Add hydroseed or other erosion control
- ⑤ • Cover & protect stockpiles. Some stockpiles near entrance are only partially covered. Others to the west are completely uncovered
- ⑥ • Ensure that enough BMP materials are kept on site. Not enough fiber rolls were on site
- ⑦ • Redirect flow along the southern side of site. It currently is causing erosion along the road and directs flow to a damaged wall. Direct away from wall and break up flow with check dams to prevent erosion
- ⑧ • Sweep road to remove sediment









Lemon Grove Municipal Code							
<a href="#">Up</a>	<a href="#">Previous</a>	<a href="#">Next</a>	<a href="#">Main</a>		<a href="#">Search</a>	<a href="#">Print</a>	<a href="#">No Frames</a>
<a href="#">Title 8 HEALTH AND SAFETY</a>							
<a href="#">Chapter 8.48 STORMWATER MANAGEMENT AND DISCHARGE CONTROL</a>							

**8.48.040 Discharge of non-stormwater prohibited.**

A. **Illegal Discharges.** The discharge of pollutants to non-stormwater, directly or indirectly into the stormwater conveyance system or receiving waters, is prohibited, except as exempted in

Section 8.48.050 of this chapter. The discharge of pollutants to stormwater, directly or indirectly into the stormwater conveyance system or receiving

waters, is prohibited, unless the applicable requirements of this chapter have been met.

B. **Illegal Connection.** The establishment of illegal connections is prohibited. The use of illegal connections is prohibited, even if the connection was established pursuant to a valid city permit and was legal at the time it was constructed.

C. **Litter, Dumps, and Stockpiles.** Throwing, depositing, leaving, abandoning, maintaining or keeping materials or wastes on public or private lands in a manner and place where they may result in an illegal discharge is prohibited. (Ord. 369 § 1, 2008)

# D-MAX Engineering, Inc.

Consultants in Water & Environmental Sciences



## Memo

Date: December 12, 2014

To: Malik Tamimi

Cc: Tad Nakatani

From: John Quenzer

JQ

Subject: December 12, 2014 Sampling at Valencia Construction Site

Per the City's request, D-MAX collected samples of runoff from the Valencia construction site. Samples were taken at the Akins Avenue and San Altos Place entrance/exit locations to the site (sites Valencia\_Akins and Valencia\_SanAltos, respectively). A sample of runoff from a residential portion of Lemon Grove flow south/southwest toward the San Altos entrance exit was also taken to assess background conditions (site Background\_SanAltos). Because gravel bags were noted along Akins Avenue from the site discharge point down to the nearest storm drain inlet, a sample was also taken downstream of the last set of gravel bags, just before the water entered the inlet (site Akins\_Inlet). Figure 1 and photos 1 through 3 show the sampling locations.

Each sample was collected and analyzed for turbidity using a calibrated field meter. Most of the site runoff appears to be discharging via the Akins Avenue discharge point (Valencia\_Akins). Note that two different samples were taken from site Valencia\_Akins, about an hour apart, to see if runoff characteristics would vary over time. Only a minimal difference in turbidity was observed between the two samples. The sample taken at the inlet along Akins Avenue (Akins\_Inlet) had somewhat lower turbidity, likely due to the use of gravel bags along the curb between the site and the inlet, but the turbidity levels were still not substantially lower. Results are summarized in the table below, and photos of the samples in clear containers are presented as photos 4 through 6.

**Table 1. Sampling Results**

Site	Sample Date	Sample Time	Turbidity (NTU)
Valencia_Akins	12/12/2014	11:05	505
Background_SanAltos	12/12/2014	11:26	18.73
Valencia_SanAltos	12/12/2014	11:27	427
Valencia_Akins	12/12/2014	11:55	513
Akins_Inlet	12/12/2014	11:58	477





Figure 1. Sampling Locations



Photo 1. Site Valencia\_Akins



Photo 2. Sites Valencia\_SanAltos (red arrow) and Background\_SanAltos (yellow arrow)



Photo 3. Site Akins\_Inlet





Photo 4. First Sample (11:05) from Site Valencia\_Akins



Photo 5. Samples from Sites Background\_SanAltos (left) and Valencia\_SanAltos (right)



Photo 6. Second Sample from Site Valencia\_Akins (11:58, left) and Sample from Site Akins\_Inlet (right)





CITY OF LEMON GROVE  
3232 Main Street, Lemon Grove, CA 91945

## NPDES STORMWATER PROGRAM CONSTRUCTION STORMWATER COMPLIANCE INSPECTION FORM

Inspector Name /Signature/Date/Time: TAD NAKATANI / [Signature] / 12/11/14 9:00AM

Inspection: ☐ Permit-Required Inspection ☒ Follow-up Inspection ☐ Other (Explain) \_\_\_\_\_

Construction Project Priority: ☐ High ☒ Medium ☐ Low

### GENERAL INFORMATION

Grading or Building Permit #: Gr-1692

Project Name & Type: VALENCIA SUBDIVISION

Project Location & Address: SAN ALTOS PLACE

Contractor's Name & Telephone #: ANDERSON DEVELOPMENT (949) 275-6739

Property Owner & Telephone #: SAN ALTOS LLC

Is this Project Greater than an Acre? ☒ Yes ☐ No ☐ N/A

If yes: Provide Record of Waste Discharge Identification Number (WDID#): 937C 369143

Does this Project have an NOI/SWPPP Available? ☒ Yes ☐ No ☐ N/A

Is Weather Triggered Action Plan Completed? ☐ Yes ☐ No ☒ N/A

Is Advanced Treatment Implemented Appropriately? ☐ Yes ☐ No ☒ N/A

Is More than 17 Acres of Cleared or Graded Areas Left Exposed at Any Given Time? ☐ Yes ☒ No ☐ N/A

Is 125% of Materials to Install Standby BMPs Available? ☐ Yes ☒ No ☐ N/A

Are Routine Self-Inspections Being Conducted by Developer/Owner? ☐ Yes ☐ No ☐ N/A

Project Site is in What Sub-Watershed: ☒ Chollas Creek 908.22 ☐ Sweetwater River 909.12

Nearest Conveyances or Water Bodies: \_\_\_\_\_

BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
<b>Soil Stabilization and Erosion Prevention</b>					
Preservation of existing vegetation?			<input checked="" type="checkbox"/>		
Physical Stabilization: Hydraulic Mulch, Hydroseeding, Soil Binders, Straw Mulch	<input checked="" type="checkbox"/>			Grulies & unstabilized pads still not addressed	No
Geotextiles, Plastic Covers, Erosion Prevention Blankets, Wood Mulching	<input checked="" type="checkbox"/>			some plastic sheets added but not yet sufficient	No
Site Drainage: Outlet Protection/Slope Drain		<input checked="" type="checkbox"/>			
Inlet/Outlet Protection	<input checked="" type="checkbox"/>			see inlet protection comment below	No
<b>Sediment Control/Containment</b>					
Perimeter Protection: Silt Fencing, Gravel Bags, Fiber Rolls	<input checked="" type="checkbox"/>			Additional fiber rolls not placed on slopes yet	No
Storm Drain inlet protection: Sediment Trap, De-silting Basin, Gravel Bag Barrier	<input checked="" type="checkbox"/>			Per discussion w/contractor, they still need to add gravel bag inlet protection	No



BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
Tracking Controls: Stabilized Entrance/Exit Road Stabilization, Tire Wash, Street Sweeping	X			NE entrance still not stabilized but not currently in use	No
<b>Materials and Equipment Management</b>					
Are materials and wastes stored in a manner that minimizes or eliminates the potential to discharge these materials to the storm drain system, is secondary containment used?	X				Yes
Are material stockpiles protected: covered, contained and located away from non-storm water discharges?	X			still need to protect all stockpiles	No
Are heavy equipment and vehicles parked in designated areas with permeable surface?	X				Yes
Are appropriate spill response and containment measures kept on the site?	X				Yes
Are wastes managed and stored properly (Solid, liquid, sanitary, concrete, hazardous)	X				Yes
Are concrete washouts properly installed, maintained with no evidence of discharges.	X				Yes
Is timely service and removal provided to prevent waste containers and sanitary facilities from overflowing?	X				Yes
<b>Non-Storm Water Management</b>					
Is the site free of evidence of illegal connections and/or illicit discharges?	X				Yes
<b>Discharge Locations</b>					
Are the discharge locations free of significant erosion or sediment transport?		X		still need to clean sediment on Akins	No
<b>Other</b>					
Are there any other potential storm water pollution issues/concerns?	X			Regrading stabilization still needed	No
Was there any employee or subcontractor training on stormwater BMPs?			X		

#### VIOLATIONS

- ☐ No violations noted at time of inspection/investigation  
☒ No violations; however, recommended corrective actions required  
☒ Inspection Form as Correct Work Notice ☐ Correct Work Notice Issued on: \_\_\_\_\_  
☐ Violation: Illegal Discharge/Illegal Connection/Improper BMPs Implementation  
☐ Stop Work Notice Issued on: \_\_\_\_\_

#### RECOMMENDED CORRECTIVE ACTION

FLOW ALONG SOUTHERN EDGE OF SITE HAS BEEN REDIRECTED AWAY FROM THE CORNER. ALL OTHER CORRECTIVE ACTIONS FROM THE 12/9/14 INSPECTION HAVE NOT YET BEEN ADDRESSED. REFER TO THAT INSPECTION FOR FULL DESCRIPTION OF CORRECTIVE ACTIONS.





CITY OF LEMON GROVE  
3232 Main Street, Lemon Grove, CA 91945

## NPDES STORMWATER PROGRAM CONSTRUCTION STORMWATER COMPLIANCE INSPECTION FORM

Inspector Name /Signature/Date/Time: TAD NAKATANI 12/9/14 1:00 pm

Inspection: ☒ Permit-Required Inspection ☐ Follow-up Inspection ☐ Other (Explain) \_\_\_\_\_

Construction Project Priority: ☒ High ☒ Medium ☐ Low

### GENERAL INFORMATION

Grading or Building Permit #: Gr-1692

Project Name & Type: VALENCIA SUBDIVISION

Project Location & Address: SAN ALTOS PLACE

Contractor's Name & Telephone #: ANDERSON DEVELOPMENT (949) 275-6739

Property Owner & Telephone #: SAN ALTOS LLC

Is this Project Greater than an Acre? ☒ Yes ☐ No ☐ N/A

If yes: Provide Record of Waste Discharge Identification Number (WDID#): 937C369143

Does this Project have an NOI/SWPPP Available? ☒ Yes ☐ No ☐ N/A

Is Weather Triggered Action Plan Completed? ☐ Yes ☐ No ☒ N/A

Is Advanced Treatment Implemented Appropriately? ☐ Yes ☐ No ☒ N/A

Is More than 17 Acres of Cleared or Graded Areas Left Exposed at Any Given Time? ☐ Yes ☐ No ☐ N/A

Is 125% of Materials to Install Standby BMPs Available? ☐ Yes ☒ No ☐ N/A

Are Routine Self-Inspections Being Conducted by Developer/Owner? ☐ Yes ☐ No ☐ N/A

Project Site is in What Sub-Watershed: ☒ Chollas Creek 908.22 ☐ Sweetwater River 909.12

Nearest Conveyances or Water Bodies: \_\_\_\_\_

BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
<b>Soil Stabilization and Erosion Prevention</b>					
Preservation of existing vegetation?			<input checked="" type="checkbox"/>		
Physical Stabilization: Hydraulic Mulch, Hydroseeding, Soil Binders, Straw Mulch	<input checked="" type="checkbox"/>			Gullies through edges of hydroseeded areas. Some pads not seeded; northern road eroding.	No
Geotextiles, Plastic Covers, Erosion Prevention Blankets, Wood Mulching		<input checked="" type="checkbox"/>			
Site Drainage: Outlet Protection/Slope Drain		<input checked="" type="checkbox"/>			
Inlet/Outlet Protection		<input checked="" type="checkbox"/>			
<b>Sediment Control/Containment</b>					
Perimeter Protection: Silt Fencing, Gravel Bags, Fiber Rolls	<input checked="" type="checkbox"/>			Additional fiber rolls needed on western slope	No
Storm Drain inlet protection: Sediment Trap, De-silting Basin, Gravel Bag Barrier		<input checked="" type="checkbox"/>			



BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
Tracking Controls: Stabilized Entrance/Exit Road Stabilization, Tire Wash, Street Sweeping	X			NE entrance lacks stabilization	No
<b>Materials and Equipment Management</b>					
Are materials and wastes stored in a manner that minimizes or eliminates the potential to discharge these materials to the storm drain system, is secondary containment used?	X				Yes
Are material stockpiles protected: covered, contained and located away from non-storm water discharges?	X			Several <del>are</del> unprotected stockpiles	No
Are heavy equipment and vehicles parked in designated areas with permeable surface?	X				Yes
Are appropriate spill response and containment measures kept on the site?	X				Yes
Are wastes managed and stored properly (Solid, liquid, sanitary, concrete, hazardous)	X				Yes
Are concrete washouts properly installed, maintained with no evidence of discharges.	X				Yes
Is timely service and removal provided to prevent waste containers and sanitary facilities from overflowing?	X				Yes
<b>Non-Storm Water Management</b>					
Is the site free of evidence of illegal connections and/or illicit discharges?	X				Yes
<b>Discharge Locations</b>					
Are the discharge locations free of significant erosion or sediment transport?		X		Large amount of sediment on roadway SE of site	No
<b>Other</b>					
Are there any other potential storm water pollution issues/concerns?	X			Roadways within project are unstabilized and show signs of erosion	No
Was there any employee or subcontractor training on stormwater BMPs?			X		

### VIOLATIONS

- ☐ No violations noted at time of inspection/investigation  
☒ No violations; however, recommended corrective actions required  
☒ Inspection Form as Correct Work Notice ☐ Correct Work Notice Issued on: \_\_\_\_\_  
☐ Violation: Illegal Discharge/Illegal Connection/Improper BMPs Implementation  
☐ Stop Work Notice Issued on: \_\_\_\_\_

### RECOMMENDED CORRECTIVE ACTION

- Add erosion controls to all <sup>disturbed</sup> areas inactive for 10 days, including roadways not currently in use.
- Cover & protect stockpiles
- Repair/protect gullies that have formed on slopes
- Redirect flow near southeast corner so it does not flow toward damaged wall
- Sweep road outside of construction entrance
- Install check dams of stabilization on roadways prior to rain

### Construction BMP Recommendations

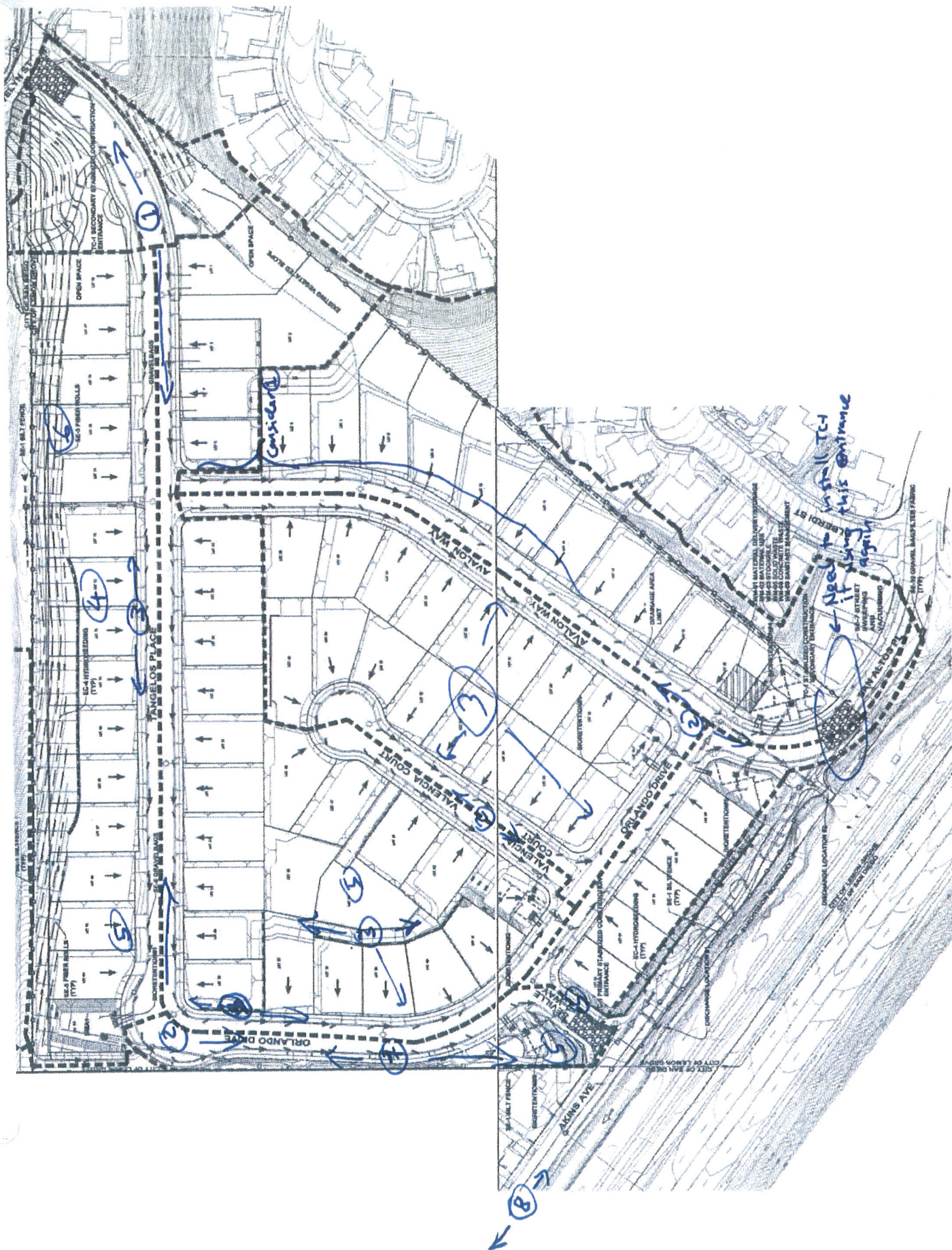
Site: VALENCIA SUBDIVISION

Date: 12/9/14

#### Recommendations:

- ① • Add erosion control to road segment (eg northern corner) that are not in use. Can be hydroseeded or stabilized with gravel.
- ② • For roads that are in use, add check dams prior to rain. Ensure proper installation to prevent rills from forming underneath BMP if using fiber rolls
- ③ • Repair <sup>stabilize</sup> gullies in slopes on edges of pads. May consider using erosion control blankets.
- ④ • A couple pads on western side do not appear hydroseeded. Add hydroseed or other erosion control
- ⑤ • Cover & protect stockpiles. Some stockpiles near entrance are only partially covered. Others to the west are completely uncovered
- ⑥ • Ensure that enough BMP materials are kept on site. Not enough fiber rolls were on site
- ⑦ • Redirect flow along the southern side of site. It currently is causing erosion along the road and directs flow to a damaged wall. Direct away from wall and break up flow with check dams to prevent erosion
- ⑧ • Sweep road to remove sediment





**Exhibit No. 8**

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - SAN DIEGO REGION  
WATERSHED PROTECTION PROGRAM**

**FACILITY INSPECTION REPORT**

**FACILITY:** Valencia  
**WDID/FILE NO.:** 937C369143

**INSPECTION DATE/TIME:** 12/15/2014; 10:00 am

**REPRESENTATIVE(S) PRESENT DURING INSPECTION:**

NAME: Wayne Chiu  
NAME: Ben Anderson  
NAME: Tim Anderson  
NAME: Donald Sturgeon  
NAME: Leon Firsh  
NAME: Gary Harper

AFFILIATION: San Diego Water Board  
AFFILIATION: BCA Development, Inc.  
AFFILIATION: BCA Development, Inc.  
AFFILIATION: Whitson CM  
AFFILIATION: City of Lemon Grove  
AFFILIATION: City of Lemon Grove

San Altos Lemon Grove LLC  
NAME OF OWNER, AGENCY OR PARTY RESPONSIBLE FOR DISCHARGE  
  
5780 Fleet Avenue  
Carlsbad, CA 92008  
OWNER MAILING ADDRESS

BCA Development, Inc.  
FACILITY OR DEVELOPER NAME (if different from owner)  
  
1350 San Altos Place  
Lemon Grove, CA 91945  
FACILITY ADDRESS

Ben Anderson, 714-966-1544  
OWNER CONTACT NAME AND PHONE #

Same  
FACILITY OR DEVELOPER CONTACT NAME AND PHONE #

**APPLICABLE WATER QUALITY LICENSING REQUIREMENTS:**

- |   |   |
|---|---|
| <input type="checkbox"/> MS4 URBAN RUNOFF REQUIREMENTS          | <input type="checkbox"/> GENERAL OR INDIVIDUAL WASTE DISCHARGE REQUIREMENTS OR NPDES  |
| <input checked="" type="checkbox"/> CONSTRUCTION GENERAL PERMIT | <input type="checkbox"/> GENERAL OR INDIVIDUAL WAIVER OF WASTE DISCHARGE REQUIREMENTS |
| <input type="checkbox"/> CALTRANS GENERAL PERMIT                | <input type="checkbox"/> SECTION 401 WATER QUALITY CERTIFICATION                      |
| <input type="checkbox"/> INDUSTRIAL GENERAL PERMIT              | <input type="checkbox"/> CWC SECTION 13264  |

**INSPECTION TYPE (Check One):**

- ☐ "A" TYPE COMPLIANCE--COMPREHENSIVE INSPECTION IN WHICH SAMPLES ARE TAKEN. (EPA TYPE S)
- ☐ "B" TYPE COMPLIANCE--A ROUTINE NONSAMPLING INSPECTION. (EPA TYPE C)
- ☐ NONCOMPLIANCE FOLLOW-UP--INSPECTION MADE TO VERIFY CORRECTION OF A PREVIOUSLY IDENTIFIED VIOLATION.
- ☐ ENFORCEMENT FOLLOW-UP--INSPECTION MADE TO VERIFY THAT CONDITIONS OF AN ENFORCEMENT ACTION ARE BEING MET.
- ☒ COMPLAINT--INSPECTION MADE IN RESPONSE TO A COMPLAINT.
- ☐ PRE-REQUIREMENT--INSPECTION MADE TO GATHER INFO. RELATIVE TO PREPARING, MODIFYING, OR RESCINDING REQUIREMENTS.
- ☐ NO EXPOSURE CERTIFICATION (NEC) - VERIFICATION THAT THERE IS NO EXPOSURE OF INDUSTRIAL ACTIVITIES TO STORM WATER.
- ☐ NOTICE OF TERMINATION REQUEST FOR INDUSTRIAL FACILITIES OR CONSTRUCTION SITES - VERIFICATION THAT THE FACILITY OR CONSTRUCTION SITE IS NOT SUBJECT TO PERMIT REQUIREMENTS.
- ☐ COMPLIANCE ASSISTANCE INSPECTION - OUTREACH INSPECTION DUE TO DISCHARGER'S REQUEST FOR COMPLIANCE ASSISTANCE.

**INSPECTION FINDINGS:**

Y WERE VIOLATIONS NOTED DURING THIS INSPECTION? (YES/NO/PENDING SAMPLE RESULTS)



Facility: Valencia  
Inspection Date: 12/15/2014

## I. COMPLIANCE HISTORY / PURPOSE OF INSPECTION

On December 2, 2014, the City of Lemon Grove (City) issued a Stop Work/Notice of Violation to the Valencia construction site (WDID 9 37C369143) for failing to implement construction storm water best management practices (BMPs) required by local ordinances. The City's inspection report issued with the Stop Work/Notice of Violation noted inadequate implementation of erosion controls, entrance/exit stabilization, and stockpile management and warned the project manager that a "discharge is imminent" without adequate BMPs. The site was required to stop work and implement BMPs to be prepared for a storm event that occurred on December 3 and 4, 2014.

The site failed to implement BMPs before the storm, resulting in unauthorized discharges of sediment and sediment-laden storm water from the site to the City's municipal separate storm sewer system (MS4). The City issued a second Stop Work/Notice of Violation on December 4, 2014 for the illegal discharges to the City's MS4. The City conducted a follow up inspection on December 9, 2014 and noted the same BMP deficiencies identified before the December 3 and 4, 2014 storm event, as well as additional deficiencies in perimeter sediment controls. The inspection report provided recommendations for locations that needed to be addressed and types of BMPs. The site again failed to implement BMPs before a subsequent storm event that occurred on December 11, 2014, again resulting in unauthorized discharges of sediment and sediment-laden storm water from the site to the City's MS4. On December 11, 2014, the City issued an Administrative Citation to the site requiring BMPs to be implemented by December 15, 2014 before monetary penalties would begin. The Stop Work/Notice of Violation issued on December 2 and 4, 2014 and the Administrative Citation issued on December 11, 2014 by the City are attached to the end of this inspection report.

On the morning of December 12, 2014, the City contacted the San Diego Water Board about the unauthorized discharges of sediment and sediment-laden storm water to their MS4 from the Valencia construction site. According to the City's storm water manager, the site owner was claiming the site was in compliance with the requirements of the Statewide Construction General Storm Water Permit, Order No. 2009-0009-DWQ (CGP) and therefore should be considered in compliance with the City's ordinances. The City's storm water manager requested an inspection from the San Diego Water Board to determine whether the construction site was in compliance with the requirements of the CGP.

Wayne Chiu of the San Diego Water Board performed an inspection of the Valencia construction site for compliance with the requirements CGP. According to the Storm Water Multiple Application & Report Tracking System (SMARTS), the site is a Risk Level 2 construction site, disturbing over 18 acres, and owned by San Alto Lemon Grove LLC. The developer of the site is BCA Development, Inc.

The San Diego Water Board inspector met with Mr. Ben Anderson, the contact for the owner and developer of the site, Mr. Tim Anderson, project manager for the developer,

Facility: Valencia  
Inspection Date: 12/15/2014

and Mr. Donald Sturgeon, the Qualified Storm Water Pollution Prevention Plan (SWPPP) Practitioner (QSP) performing the weekly inspections. Also present to observe during the inspection were Mr. Leon Firsht and Mr. Gary Harper, City Engineer and Construction Storm Water Inspector for the City of Lemon Grove, respectively. The San Diego Water Board inspector did not review the SWPPP or other records during the inspection.

## II. FINDINGS

1. Several stockpiles observed without adequate containment (See Photo 1). Evidence of erosion and sediment transport from the stockpile observed during the inspection. All construction sites are required to contain and securely protect stockpiled waste material from wind and rain at all times unless actively being used.
2. Construction equipment and vehicles observed without appropriate BMPs (e.g. drip pans) to prevent oil, grease, or fuel to leak in to the ground, storm drains, or surface waters (See Photos 2 and 3). All construction sites are required to prevent oil, grease or fuel to leak in to the ground, storm drains, or surface waters, and to place all equipment and vehicles, which are to be fueled, maintained and stored in a designated area fitted with appropriate BMPs.
3. Several areas were observed to be inactive, or could be scheduled to be inactive, without effective soil cover to control potential erosion. Several completed building pads and several inactive slopes (See Photos 4 through 7) lacked any effective soil cover for erosion control. The lack of erosion controls in these areas contributed to unauthorized sediment discharges from the site (See Photos 9 through 11). All construction sites are required to provide effective soil cover for inactive areas (i.e. areas that have been disturbed and not scheduled to be re-disturbed for at least 14 days) and all finished slopes, open space, utility backfill, and completed lots.
4. Active areas were observed to lack appropriate erosion control BMPs (runoff control and soil stabilization) to prevent erosion during storm events (See Photo 8). The project manager and QSP could not describe any erosion control measures that were in place or were ready to be deployed before the December 3 and 4, 2014 and December 11, 2014 storm events. Risk Level 2 construction sites are required to implement appropriate erosion control BMPs (runoff control and soil stabilization) in conjunction with sediment control BMPs for areas under active construction.
5. Several slopes throughout the site were observed to lack linear sediment controls along the toe and grade breaks of exposed slopes (See Photos 4 through 7). Risk Level 2 construction sites are required to apply linear sediment controls along the toe of the slope, face of the slopes, and at the grade breaks of exposed

Facility: Valencia  
Inspection Date: 12/15/2014

slopes to comply with sheet flow lengths given in Table 1 of Attachment D to the CGP.

6. Lack of effective perimeter sediment controls observed which resulted in unauthorized sediment discharges from the site (See Photos 9 through 14). All construction sites are required to establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from the site.
7. **Lack of effective run-on and runoff controls** observed within and around the site which contributed to sediment discharges from the site (See Photos 4 and 14). All construction sites are required to effectively manage run-on, all runoff within the site and all runoff that discharges off the site.

### III. COMMENTS AND RECOMMENDATIONS

#### Comments

1. There is evidence that good site management "housekeeping" BMPs were not being adequately implemented (See Findings 1 and 2).
2. There is evidence that erosion controls were not adequately implemented for several inactive areas contributing to discharges of sediment from the site (See Finding 3).
3. There is evidence that erosion controls were not adequately implemented for several active areas prior to storm events contributing to discharges of sediment from the site (See Finding 4).
4. There is evidence that linear sediment controls were not adequately implemented for several exposed slopes contributing to slope erosion and discharges of sediment from the site (See Finding 5).
5. There is evidence that perimeter sediment controls, as well as run-on and runoff controls, were not adequately implemented which contributed to discharges of sediment from the site (See Findings 6 and 7).
6. There was evidence observed during the inspection that the site has not implemented BMPs to meet BCT Technology Based Effluent Limitations (TBELs) under Section V.A.2 of the CGP, as required for all construction sites, which resulted in the unauthorized discharges of sediment and sediment-laden water from the site observed or documented on December 4, 11, and 15, 2014 (See Compliance History discussion and Findings 1 through 7).

Facility: Valencia  
Inspection Date: 12/15/2014

7. There is evidence that either the QSP was not adequately identifying and recommending implementation of good site management "housekeeping," erosion control, sediment control, and run-on/runoff control BMPs, or the owner/developer was not directing the implementation of the BMPs as recommended by the QSP.

#### Recommendations

1. Issue a Notice of Violation for discharges of sediment from the site and failure to implement Risk Level 2 requirements of CGP.
2. Refer the site to the Compliance Assurance Unit to determine whether or not issuing formal enforcement action may be appropriate.

#### IV. SIGNATURE SECTION

Wayne Chiu		12/15/2014
STAFF INSPECTOR	SIGNATURE	INSPECTION DATE
Eric Becker		
REVIEWED BY SUPERVISOR	SIGNATURE	DATE

#### SMARTS:

Tech Staff Info & Use	
WDID	937C369143
Place ID	SM-828060
Inspection ID	2024185
Violation ID	855345, 855346



Facility: Valencia  
Inspection Date: 12/15/2014



Photo 1

Photo 1 shows soil stockpile without adequate containment. Evidence of erosion and sediment transport along that base of the stockpile. Most stockpiles observed during inspection lacked adequate containment.



Photo 2



Photo 3

Photos 2 and 3 show construction equipment and vehicles without appropriate BMPs (e.g. drip pans) to prevent oil, grease, or fuel to leak in to the ground, storm drains, or surface waters. Most vehicles observed during inspection lacked appropriate BMPs.



Facility: Valencia  
Inspection Date: 12/15/2014



Photo 4



Photo 5



Photo 6



Photo 7



Photo 8

Photos 4 through 7 show completed building pads and adjacent slopes without any erosion controls and evidence of significant erosion and sediment transport. Photo 8 shows evidence of erosion and sediment transport in unpaved road sloping to locations shown in Photos 9 through 11. Sediment from completed lots and slopes in Photos 4 through 7 transported to road in Photo 8 lacking any erosion control measures during storm events, and inadequate runoff controls to reduce and prevent transport of sediment through site.



Facility: Valencia  
Inspection Date: 12/15/2014



Photo 9



Photo 10



Photo 11



Photo 12

**Photos 9 through 12** show inadequate implementation of perimeter sediment controls and run-on/runoff controls to prevent discharges of sediment from the site. Photo 9 shows evidence of erosion and sediment transport from road shown in Photo 8 to perimeter with inadequately installed perimeter sediment and runoff controls (i.e. fiber roll not properly trenched and staked). Photos 10 shows evidence of sediment transport from the site beneath the inadequately installed perimeter sediment and runoff controls. Photo 11 shows evidence of sediment transport from the site to MS4 channel protected by silt fence and gravel bags. Photo 12 shows **sediment that has been discharged into the MS4 channel** due to inadequate implementation of erosion, sediment, and runoff controls by the site.

Facility: Valencia  
Inspection Date: 12/15/2014



Photo 13



Photo 14

**Photos 13 and 14** show lack of effective perimeter sediment controls and run-on/runoff controls. Photo 13 shows evidence of erosion and sediment transport due to lack of perimeter run-on controls. Photo 14 shows evidence of sediment discharged from the site to the MS4 drainage system due to **erosion caused by run-on** that then ran off the site due to inadequate perimeter sediment controls and runoff controls.





# NOTICE

DATE: 12/2/14  
PROJECT: Valencia  
PROJECT #: GR-1692  
ADDRESS: SAN ANTONIO PL

## ☒ STOP WORK/NOTICE OF VIOLATION

Stop all other work until erosion control/NPDES deficiencies noted below are corrected. Issuance of this Stop Work Notice will notify the Regional Water Quality Control Board regarding your BMP deficiencies. This may subject you to fines of up to \$10,000/day.

## ☐ CORRECT WORK

Correct noted deficiencies within the specified time frame to avoid a Stop Work Notice:

☐ 24 Hours ☐ 72 Hours ☐ 5 Days ☐ Prior to October 1<sup>st</sup>, And/Or ☐ Before Rain Event

### THIS PROJECT IS IN CONFLICT WITH THE FOLLOWING:

- ☐ City of Lemon Grove Grading Ordinance\* ☒ City of Lemon Grove JURMP  
☐ Other: \_\_\_\_\_

### THE AREAS OF CONFLICT ARE:

- ☐ Erosion control is not on site ☐ Erosion control is not per the approved plan  
☒ Erosion control is inadequate ☐ Failure to maintain erosion/sediment control device  
☐ Other: \_\_\_\_\_

### THE FOLLOWING DEFICIENCIES ARE NOTED:

- ☒ Stabilized construction entrance ☐ Runoff from the site ☐ Desilting basin  
☐ Perimeter protection at toe of slope ☐ Waste/materials storage  
☐ Concrete washout inadequate, not maintained ☐ No secondary containment  
☒ Cover stockpiles ☐ No storm drain inlet/outlet protection ☐ Trash/debris not managed  
☐ Cover on sloped and/or flat areas that are inactive for more than 10 days  
☐ Other: \_\_\_\_\_

\*\*\*STOP/ CORRECT WORK ADEQUATELY ADDRESSED (DATE/SIGNATURE) \_\_\_\_\_

- CC: ☒ City Engineer  
☐ Engineering  
☐ Management Analyst  
☐ Code Compliance  
☐ Building  
☐ RWQCB

ISSUED TO: TIM ANDERSON (via Email)  
DATE/TIME: 12/2/14 3pm  
BY: GARY HARPER  
TITLE: ENG. INSPECTOR  
PHONE: (619) 454-1272

IF YOU HAVE FURTHER QUESTIONS, PLEASE  
CALL THE CITY OF LEMON GROVE'S  
DEVELOPMENT SERVICES DEPARTMENT AT  
(619) 825-3805.

\* Having deficiencies in your erosion control is a violation of the City of Lemon Grove's Grading Ordinance. A violation of the City's Grading Ordinance is a misdemeanor. Each separate day or portion thereof on which a violation exists or is allowed to exist shall constitute a separate offense punishable by the provisions of the Ordinance.





## CITY OF LEMON GROVE

3232 Main Street, Lemon Grove, CA 91945

NPDES STORMWATER PROGRAM  
CONSTRUCTION STORMWATER COMPLIANCE INSPECTION FORMInspector Name /Signature/Date/Time: Harper / [Signature] / 12/2/14 / 1pmInspection: ☐ Permit-Required Inspection ☐ Follow-up Inspection ☒ Other (Explain) WeeklyConstruction Project Priority: ☐ High ☐ Medium ☐ Low

## GENERAL INFORMATION

Grading or Building Permit #: GC-1692Project Name & Type: VALENCIA, SUBDIVISIONProject Location & Address: SAN AITO PLContractor's Name & Telephone #: ANDERSON DEVELOPMENT (949) 275-6739Property Owner & Telephone #: SAN AITO LLCIs this Project Greater than an Acre? ☒ Yes ☐ No ☐ N/AIf yes: Provide Record of Waste Discharge Identification Number (WDID#): 937C 36 9143Does this Project have an NOI/SWPPP Available? ☒ Yes ☐ No ☐ N/AIs Weather Triggered Action Plan Completed? ☒ Yes ☐ No ☐ N/AIs Advanced Treatment Implemented Appropriately? ☐ Yes ☐ No ☒ N/AIs More than 17 Acres of Cleared or Graded Areas Left Exposed at Any Given Time? ☐ Yes ☒ No ☐ N/AIs 125% of Materials to Install Standby BMPs Available? ☐ Yes ☒ No ☐ N/AAre Routine Self-Inspections Being Conducted by Developer/Owner? ☒ Yes ☐ No ☐ N/AProject Site is in What Sub-Watershed: ☐ Chollas Creek 908.22 ☐ Sweetwater River 909.12Nearest Conveyances or Water Bodies: MS4

BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
Soil Stabilization and Erosion Prevention					
Is construction site phased/scheduled to address erosion control on a timely basis?	X			CONTRACTOR HYDROSEEDING AS NEEDED, BUT DID NOT SEED AS PLANNED	N
Preservation of existing vegetation?	X				Y
Physical Stabilization: Hydraulic Mulch, Hydroseeding, Soil Binders, Straw Mulch					
Geotextiles, Plastic Covers, Erosion Prevention Blankets, Wood Mulching	X			NOT ENOUGH PLASTIC COVERS FOR STOCKPILES	NO
Site Drainage: Outlet Protection/Slope Drain	X				Y
Inlet/Outlet Protection	Y				Y
Sediment Control/Containment					
Perimeter Protection: Silt Fencing, Gravel Bags, Fiber Rolls	Y				Y



BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
Storm Drain inlet protection: Sediment Trap, De-silting Basin, Gravel Bag Barrier	Y				Y
Tracking Controls: Stabilized Entrance/Exit Road Stabilization, Tire Wash, Street Sweeping	Y			ENTRANCE NEEDS TO BE CLEARED. ALSO NEED STREET SWEEP	NO
<b>Materials and Equipment Management</b>					
Are materials and wastes stored in a manner that minimizes or eliminates the potential to discharge these materials to the storm drain system, is secondary containment used?	Y				Y
Are material stockpiles protected: covered, contained and located away from non-storm water discharges?	Y			SOME ARE COVERED SOME ARE NOT	NO
Are heavy equipment and vehicles parked in designated areas with permeable surface?	Y				Y
Are appropriate spill response and containment measures kept on the site?	Y				Y
Are wastes managed and stored properly (Solid, liquid, sanitary, concrete, hazardous)	Y				Y
Are concrete washouts properly installed, maintained with no evidence of discharges.	Y				Y
Is timely service and removal provided to prevent waste containers and sanitary facilities from overflowing?	Y				Y
<b>Non-Storm Water Management</b>					
Is the site free of evidence of illegal connections and/or illicit discharges?	Y				Y
<b>Discharge Locations</b>					
Are the discharge locations free of significant erosion or sediment transport?		N		TC-1 IS DOWNSTREAM OF UPPER SITE; NEEDS TO BE CLEARED	NO
<b>Other</b>					
Are there any other potential storm water pollution issues/concerns?	Y			RAIN EVENT TODAY, TC-1 SHOULD BE PROTECTED	NO
Was there any employee or subcontractor training on stormwater BMPs?		N			

#### VIOLATIONS

- ☐ No violations noted at time of inspection/investigation  
☐ No violations; however, recommended corrective actions required  
☐ Inspection Form as Correct Work Notice ☐ Correct Work Notice Issued on: \_\_\_\_\_  
☒ Violation: Illegal Discharge/Illegal Connection/Improper BMPs Implementation  
☒ Stop Work Notice Issued on: 12/2/14

#### RECOMMENDED CORRECTIVE ACTION

SEE STOP WORK NOTICE - DISCHARGE IS  
IMMINENT IF NOAA FORECAST CORRECT: 100% HEAVY  
RAIN THIS AFTERNOON.  
I CALL TO TIM AVALON THIS MORNING AT 9AM.  
LEFT V. MAIL THAT SITUATION NEEDED ATTENTION ASAP - NO  
RETURN CALL





# NOTICE

DATE: 12/4/2014  
PROJECT: Valencia  
PROJECT #: GIR-1692  
ADDRESS: SAN ANTONIO PL

## ☒ STOP WORK/NOTICE OF VIOLATION

Stop all other work until erosion control/NPDES deficiencies noted below are corrected. Issuance of this Stop Work Notice will notify the Regional Water Quality Control Board regarding your BMP deficiencies. This may subject you to fines of up to \$10,000/day.

## ☐ CORRECT WORK

Correct noted deficiencies within the specified time frame to avoid a Stop Work Notice:

☐ 24 Hours ☐ 72 Hours ☐ 5 Days ☐ Prior to October 1<sup>st</sup>, And/Or ☐ Before Rain Event

### THIS PROJECT IS IN CONFLICT WITH THE FOLLOWING:

- ☐ City of Lemon Grove Grading Ordinance\* ☒ City of Lemon Grove JURMP  
☐ Other: \_\_\_\_\_

### THE AREAS OF CONFLICT ARE:

- ☐ Erosion control is not on site ☒ Erosion control is not per the approved plan  
☒ Erosion control is inadequate ☒ Failure to maintain erosion/sediment control device  
☐ Other: \_\_\_\_\_

### THE FOLLOWING DEFICIENCIES ARE NOTED:

- ☒ Stabilized construction entrance ☒ Runoff from the site ☐ Desilting basin  
☐ Perimeter protection at toe of slope ☐ Waste/materials storage  
☐ Concrete washout inadequate, not maintained ☐ No secondary containment  
☒ Cover stockpiles ☐ No storm drain inlet/outlet protection ☐ Trash/debris not managed  
☐ Cover on sloped and/or flat areas that are inactive for more than 10 days  
☒ Other: Illegal Discharge

\*\*\*STOP/ CORRECT WORK ADEQUATELY ADDRESSED (DATE/SIGNATURE) \_\_\_\_\_

- CC: ☒ City Engineer  
☒ Engineering  
☐ Management Analyst  
☐ Code Compliance  
☐ Building  
☒ RWQCB

ISSUED TO: Tim Anderson (Email)  
DATE/TIME: 12/4/2014 10AM  
BY: GARY HARTER  
TITLE: ENG. INSPECTOR  
PHONE: (619) 454 1222

IF YOU HAVE FURTHER QUESTIONS, PLEASE  
CALL THE CITY OF LEMON GROVE'S  
DEVELOPMENT SERVICES DEPARTMENT AT  
(619) 825-3805.

\* Having deficiencies in your erosion control is a violation of the City of Lemon Grove's Grading Ordinance. A violation of the City's Grading Ordinance is a misdemeanor. Each separate day or portion thereof on which a violation exists or is allowed to exist shall constitute a separate offense punishable by the provisions of the Ordinance.





# CITY OF LEMON GROVE ADMINISTRATIVE CITATION

## A) TYPE OF VIOLATION

Circle One:

Warning

1<sup>st</sup> Citation  
\$100

2<sup>nd</sup> Citation  
\$200

3<sup>rd</sup> Citation  
\$500

4<sup>th</sup> Citation  
\$1,000

Payment of \$        is due no later than        to the City of Lemon Grove.  
The City accepts cash, check or credit card.

If the violation is not corrected by the date specified therein and/or payment is not received by the date above, the next level of citation may be issued, other enforcement actions may occur, and penalties may be assessed (25% and interest at the rate of 10% per month). Payment of fine does not excuse or discharge the failure to correct violation identified below.

## B) RESPONSIBLE PARTY INFORMATION

Person Cited:

Anderson  
(Last Name)

Tim  
(First Name)

Circle One:

Property Owner

Tenant

Business Owner

Other

(First Name)

Mailing Address:

3194-C2

Airport Loop Drive

1 Project Manager

Business Name (if applicable):

Costa Mesa, CA 92626  
BCT Development

CC: Phil Downey, Code Enforcement File

## C) VIOLATION(S) INFORMATION

Date (Violation Observed):

12/11/14

Time (Violation Observed):

4:00-5:00 P.M.

Location of Violation:

1350 San Altos, LG / Valencia  
(Street Address)

(APN)

Violation(s) Observed (Code Section and Description):

B.48.060

18.08.560

Inadequate BMP's - see  
attached inspection reports

18.08.170

18.08.180

## D) CORRECTION(S) REQUIRED (with date to complete corrections)

Install BMP's per Recommendation's  
Maintain adequate surplus of BMP's

12/15/14

5:00 P.M.

## E) SERVICING CITATION INFORMATION

Enforcing Officer Name

Leon Fingst

Phone No.

619-825-3825

Signature

[Signature]

Date

12/11/14

Person Cited - Signature Acknowledging Receipt

(Date)

Citation Served (circle one):

In Person

By Mail

Posted on Property

This citation may be appealed within thirty (30) days from date of correction identified in Section D. To request an appeal, a Request an Appeal Hearing form (available at City Hall) should be completed and returned to City Hall. In the event a Hardship Waiver is requested, the Request for an Appeal Hearing and Hardship Waiver forms are required within fifteen (15) days from the correction date identified in Section D.

WHITE-ORIGINAL

PINK-COPY

CITATION CARD-OWNER

Lemon Grove Municipal Code							
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Title 8 HEALTH AND SAFETY							
Chapter 8.48 STORMWATER MANAGEMENT AND DISCHARGE CONTROL							

### **8.48.060 Best management practice requirements and general requirements applicable to all dischargers.**

A. **Applicable Requirements.** All dischargers in the city must comply with the generally applicable prohibitions and requirements in Sections 8.48.010 through 8.48.060 of this chapter, and must also comply with any other parts of this chapter (including relevant parts of the Manual) that are applicable to the type of facility or activity owned or operated by that discharger.

B. **Minimum Best Management Practices for All Dischargers.** All dischargers in the city must install, implement and maintain at least the following minimum BMPs:

1. **Eroded Soils.** Prior to the rainy season, dischargers must remove or secure any significant accumulations of eroded soils from slopes previously disturbed by clearing or grading, if those eroded soils could otherwise enter the stormwater conveyance system or receiving waters during the rainy season.
2. **Pollution Prevention.** Dischargers employing ten or more persons on a full-time basis shall implement those stormwater pollution prevention practices that are generally recognized in that discharger's industry or business as being effective and economically advantageous.
3. **Prevention of Illegal Discharges.** Illicit connections must be eliminated (even if the connection was established pursuant to a valid permit and was legal at the time it was constructed), and illegal discharge practices eliminated.
4. **Slopes.** Completed slopes that are more than five feet in height, more than two hundred fifty square feet in total area, and steeper than 3:1 (run-to-rise) that have been disturbed at any time by clearing, grading, or landscaping, shall be protected from erosion prior to the first rainy season following completion of the slope, and continuously thereafter.
5. **Storage of Materials and Wastes.** All materials and wastes with the potential to pollute urban runoff shall be stored in a manner that either prevents contact with rainfall and stormwater, or contains contaminated runoff for treatment and disposal.
6. **Use of Materials.** All materials with the potential to pollute urban runoff (including, but not limited to, cleaning and maintenance products used outdoors, fertilizers, pesticides and herbicides, etc.) shall be used in accordance with label directions. No such product may be disposed of or rinsed into receiving waters or the stormwater conveyance system.

C. **Inspection, Maintenance, Repair and Upgrading of BMPs.** BMPs at manned facilities must be inspected by the discharger before and following predicted rain events. BMPs at unmanned facilities must be inspected by the discharger at least once during the rainy season and at least once between each rainy season. These BMPs must be maintained so that they continue to function as designed. BMPs that fail must be repaired as soon as it is safe to do so. If the failure of a BMP indicates that the BMPs in use are inappropriate or inadequate to the circumstances, the BMPs must be modified or upgraded to prevent any further failure in the same or similar circumstances.

D. **Stormwater Pollution Prevention Plan.** An authorized enforcement official may require a commercial, industrial or land disturbance activity discharger to prepare and submit an SWPPP for approval by that official if: (1) the discharger does not come into compliance with this chapter after one or more warnings (or other enforcement action) that BMPs are inadequate or are not being adequately maintained; or (2) the facility or activity at issue is a significant source of contaminants to receiving waters despite compliance with this

chapter. Any discharger required to submit and to obtain approval of an SWPPP shall install, implement, and maintain the BMPs specified in the approved SWPPP.

The SWPPP shall identify the BMPs that will be used by the discharger to prevent or control pollution of stormwater to the MEP. If the facility is an industrial facility, the SWPPP submitted to the city shall at a minimum meet the requirements of the state NPDES general industrial stormwater permit. If the activity at issue is a construction or land disturbance activity, the SWPPP submitted to the city shall at a minimum meet the requirements of the state NPDES general construction stormwater permit. If a facility required to submit an SWPPP to the city discharges non-stormwater to groundwater, the facility shall obtain an RWQCB permit as required by the State Water Code, and shall describe the requirements of that permit in the SWPPP.

Whenever submission of an SWPPP is required pursuant to this chapter, an authorized enforcement official may take existing city BMPs into account when determining whether the practices proposed in the SWPPP are BMPs that will prevent or control pollution to the required level of MEP.

E. Notification of Spills, Releases and Illegal Discharges. Spills, releases, and illegal discharges of pollutants to receiving waters or to the stormwater conveyance system shall be reported by the discharger as required by all applicable state and federal laws. In addition, any such spills, releases and illegal discharges with the potential to endanger health, safety or the environment shall be reported to the Directors within twenty-four hours after discovery of the spill, release or discharge. If safe to do so, necessary actions shall be taken to contain and minimize the spill, release or illegal discharge.

F. Sampling, Testing, Monitoring and Reporting. Commercial, industrial or land disturbance activity dischargers shall perform the sampling, testing, monitoring and reporting required by this chapter. In addition, an authorized enforcement official may order a discharger to conduct testing or monitoring and to report the results to the city if: (1) the authorized enforcement official determines that testing or monitoring is needed to determine whether BMPs are effectively preventing or reducing pollution in stormwater to the MEP, or to determine whether the facility is a significant source of contaminants to receiving waters; or (2) the authorized enforcement official determines that testing or monitoring is needed to assess the impacts of an illegal discharge on health, safety or the environment; or (3) an illegal discharge has not been eliminated after written notice by an authorized enforcement official; or (4) repeated violations have been documented by written notices from authorized enforcement officials; or (5) the RWQCB requires the city to provide any information related to the discharger's activities.

Testing and monitoring ordered pursuant to this subsection may include the following:

1. Visual monitoring of dry weather flows, wet weather erosion, and/or BMPs;
2. Visual monitoring of premises for spills or discharges;
3. Laboratory analyses of stormwater or non-stormwater discharges for pollutants;
4. Background or baseline monitoring or analysis; and
5. Monitoring of receiving waters or sediments that may be affected by pollutant discharges by the discharger (or by a group of dischargers including the discharger).

The authorized enforcement official may direct the manner in which the results of required testing and monitoring are reported, and may determine when required sampling, testing or monitoring may be discontinued.

G. Mitigation. All illegal discharges must be mitigated within a reasonable period of time to correct or compensate for all damage to the environment caused by the illegal discharge. The authorized enforcement official shall determine whether mitigation measures proposed or completed by the discharger meet this standard. The authorized enforcement official shall require the discharger to submit a mitigation plan and schedule by a specified date prior to taking action, and to submit a summary of completed mitigation by a specified date. Notwithstanding the granting of any period of time to the discharger to correct the damage, the

discharger shall remain liable for some or all of any fines or penalties imposed pursuant to this chapter, or by the RWQCB. (Ord. 369 § 1, 2008)

Lemon Grove Municipal Code							
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<a href="#">Title 18 CITYWIDE REGULATIONS</a> <a href="#">Chapter 18.08 EXCAVATION AND GRADING</a> <a href="#">Article II. Permits and Fees</a>							

**18.08.170 Erosion control required.**

A. Plans for an erosion control system shall be prepared and submitted for the review and approval of the city engineer as a part of any application for a construction permit. The erosion control system shall comply with the requirements of the latest national pollutant discharge elimination system permit, Chapters 8.48 and this chapter to satisfy the requirements for erosion control and eliminate the discharge of sediment and pollutants. The erosion control plan shall include, but not be limited to, the following information:

1. Name, address, and a twenty-four hour phone number of the owner or responsible party, and the person or contractor responsible for installing and maintaining the erosion control system and performing emergency erosion control work;
2. The name, address and signature of the civil engineer or person who prepared the plan;
3. All desilting basins, debris basins, silt traps, and other desilting, velocity retarding and protection facilities necessary to adequately protect the site and downstream properties from erosion and its effects, preserve natural hydrologic features, and preserve riparian buffers and corridors;
4. The streets, easements, drains, and other improvements;
5. The location and placement of gravel bags, diverters, check dams, slope planting, drains, and other erosion controlling devices and measures;
6. Access routes to all such erosion control facilities and how access shall be maintained during inclement weather.

B. Erosion control system standards shall be as follows:

1. The faces of cut-and-fill slopes and the project site shall be prepared and maintained to control against erosion. Where cut slopes are not subject to erosion due to the erosion-resistant character of the materials, such protection may be omitted upon approval of the city engineer.
2. Where necessary, temporary and/or permanent erosion control devices such as desilting basins, check dams, cribbing, riprap, or other devices or methods as approved by the city engineer, shall be employed to control erosion, prevent discharge of sediment, and provide safety.
3. Temporary desilting basins constructed of compacted earth shall be compacted to a relative compaction of ninety percent of maximum density. A gravel bag or plastic spillway must be installed for overflow, as designed by the engineer of work, to avoid failure of the earthen dam. A soils engineering report prepared by the soils engineer, including the type of field-testing performed, location and results of testing shall be submitted to the city engineer for approval upon completion of the desilting basins.
4. Desilting facilities shall be provided at drainage outlets from the graded site, and shall be designed to provide a desilting capacity capable of containing the anticipated runoff for a period of time adequate to allow reasonable settlement of suspended particles.
5. Desilting basins shall be constructed around the perimeter of projects, whenever feasible, and shall provide improved maintenance access from paved roads during wet weather. Grading cost estimates must include maintenance and ultimate removal costs for temporary desilting basins.
6. The erosion control provisions shall take into account drainage patterns during the current and future phases of grading.



7. All removable protective devices shown shall be in place at the end of each working day when there is a fifty percent chance of rain within a forty-eight hour period. If the developer does not provide the required installation or maintenance of erosion control structures within two hours of notification at the twenty-four hour number on the plans, the city engineer may order city crews to do the work or may issue contracts for such work and charge the cost of this work along with reasonable overhead charges to the cash deposits or other instruments implemented for this work without further notification to the owner. No additional work on the project except erosion control work may be performed until the full amount drawn from the deposit is restored by the developer.

8. At any time of year, an inactive site shall be fully protected from erosion and discharges of sediment. Flat areas with less than five percent grade shall be fully covered unless sediment control is provided through desiltation basins at all project discharge points. A site is considered inactive if construction activities have ceased for a period of ten or more consecutive days.

C. No grading work shall be allowed between October 1st and the following April 30th on any site when the city engineer determines that erosion, mudflow or sediment or silt discharge may adversely affect downstream properties, drainage courses, storm drains, streets, easements, or public or private facilities or improvements unless an approved erosion control system has been implemented on the site. If the city determines that it is necessary for the city to cause erosion control measures to be installed or cleanup to be done, the developer shall pay all of the city's direct and indirect costs including extra inspection, supervision, and reasonable overhead charges. (Ord. 371 § 1, 2008)

Lemon Grove Municipal Code							
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<a href="#">Chapter 18.08 EXCAVATION AND GRADING</a>							
<a href="#">Article II. Permits and Fees</a>							

**18.08.180 BMP maintenance.**

All BMPs for erosion prevention and sediment control shall be functional at all time. Prior to the rainy season and after each major storm, all source control and structural treatment BMPs shall be inspected to assure the functionality. BMP maintenance shall be conducted throughout the life of the project. (Ord. 371 § 1, 2008)

Lemon Grove Municipal Code							
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<a href="#">Title 18 CITYWIDE REGULATIONS</a>							
<a href="#">Chapter 18.08 EXCAVATION AND GRADING</a>							
<a href="#">Article V. Grading Operations</a>							

**18.08.560 Responsibility of permittee.**

It shall be the responsibility of the permittee to know the conditions and/or restrictions placed on the grading permit and as outlined in applicable sections of this chapter, and as continued on the approved report (s) and to insure that all contractors, subcontractors, employees, agents and consultants are also knowledgeable of the same, and insure that they carry out the proposed work in accordance with the approved plans and specifications and with the requirements of the permit and this chapter. The permittee shall also be responsible to maintain in an obvious and accessible location on the site, a copy of the permit and grading plans bearing the approval of the city engineer. (Ord. 371 § 1, 2008)

Date: 12/11/14 5:00 P.M. Project: Valencia

☐ Meeting ☐ Phone ☒ Site Visit

Attendees: Leon + Gang

Notes: Site inspection to review recommended "Construct BMP Recommendations" from 12/9/14 inspection (attached)

- ① No erosion control provided.
- ② Insufficient / Improperly installed check dams.
- ③ Repair + stabilization of gullies not completed.
- ④ Not completed.
- ⑤ Completed.
- ⑥ Not visible.
- ⑦ Mostly complete.
- ⑧ N/A



# National Weather Service Forecast Office

## San Diego, CA


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Fire Weather

Marine Weather

Severe Weather

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TsunamiReady

Additional Info

Items of Interest

Other Useful Links

Education Resources

COOP Observer

### Warnings and/or Advisories In Effect for this Point:

**Flash Flood Watch****Wind Advisory**

For warnings and/or advisories in effect for adjacent areas to this point,

see <http://www.wrh.noaa.gov/sgx>

Change Table Font Size Increase Decrease

### Forecast For Lat/Lon: 32.7370/-117.0200 (Elev. 492 ft)

#### Lemon Grove CA

Forecast Created at: 6pm PST Dec 11, 2014

Custom Weather Forecast Table

	Thu Dec 11	Fri Dec 12	Sat Dec 13	Sun Dec 14	Mon Dec 15	Tue Dec 16
<b>Weather</b>		Slight Chance Rain	Likely Rain Showers and TStorms	Chance Rain Showers	Chance Rain	Likely Rain
<b>Daily- Temp</b>	High 67 Low 53	High 63 Low 58	High 63 Low 51	High 65 Low 48	High 64 Low 50	High 64 Low 52
<b>Chance of Precip</b>	0% 0% 5% 45%	90% 65% 75%	15% 5% 5%	5% 5% 5%	5% 40% 40%	55% 55% 60%
<b>Precip</b>	0.00" 0.00" 0.00" 0.01"	0.29" 0.06" 0.12"	0.00" 0.00" 0.00"	0.00" 0.00"		
<b>12-hr Snow Total</b>	0" 0" 0"	0" 0" 0"	0"			
<b>FRET</b>	0.06"	0.06"	0.05"	0.06"	0.07"	0.07"
<b>6-Hour</b>	4am 10am 4pm 10pm	4am 10am 4pm 10pm	4am 10am 4pm 10pm	4am 10am 4pm 10pm	4am 10am 4pm 10pm	4am 10am 4pm 10pm
<b>Temp</b>	53 62 65 60	61 60 54 54	59 59 52 49	59 61 54 51	59 61 55 53	60 61 55 53
<b>Cloudiness</b>	86% 49% 75% 100%	91% 84% 75%	51% 30% 37%	31% 21% 30% 30%	41% 41% 62% 62%	90% 90% 87% 87%
<b>Dewpoint</b>	52 53 54 53	54 52 50	48 46 46 46	44 44 44 48	44 43 45 49	47 51 49 51
<b>Relative Humidity</b>	94% 73% 67% 78%	77% 73% 88%	69% 61% 81%	80% 57% 52% 81%	79% 57% 54% 81%	82% 72% 63% 88%
<b>Wind</b>	S S S S 2 7 8 10	SE W SW W 15 6 6 6	W NW E E 2 2 5 3	E N W E 3 1 5 5	E S SW SE 6 7 7 7	SE S S S 8 9 7 6
<b>Snow Level (ft)</b>	9317 9161	7608 6313 5478 5212	5704		6701 5923 5850 5993 5805 5704 561	

### Forecast Weather Table Interface

Enter a Location or Click on Map Below

Select Weather Format

- ☐ Custom Weather Table  
☐ XML  
☐ Point Forecast Page  
☐ Point Forecast Matrix  
☐ Hourly Tabular Forecast  
☐ Hourly Weather Graph

Interval in Hours: 0 1 0 3 0 6

Duration in Days: 0 1 0 2 0 3 0 4 0 5 0 6 0 7

Search by address, city, state, latitude/longitude...

 [Go](#)





Exhibit No. 9

## CITY OF LEMON GROVE

"Best Climate On Earth"

### Engineering Services Department

December 16, 2014

Tim Anderson  
Project Manager, BCA Development  
3194-C2 Airport Loop Drive  
Costa Mesa, CA 92626

Subject: Ongoing Stormwater Violations at Valencia Project Site

Dear Tim,

Under the direction of the City of Lemon Grove (City), D-MAX Engineering Inc. conducted a follow-up stormwater compliance inspection early this afternoon at the Valencia project site (site). As you are aware, the site remains under a Stop Work Notice and no work other than implementation of best management practices (BMPs) are allowed. Today's follow-up inspection findings state that the site is still not in compliance. The deficiencies include failure to effectively implement erosion prevention and sediment control BMPs.


The City reiterates that it will not accept any discharges of sediment laden runoff from the site into its storm drain system. Water quality monitoring is being conducted to assess whether or not illegal discharges are occurring from your site during this rain event and future rain events.

Although there are workers continuing to implement BMPs, the City through Municipal Code Section 18.08.170, has the right to contact an erosion control company to implement sufficient BMPs to eliminate sediment discharge from the site. As such, the City is putting you on notice should inadequate BMPs and/or failure of BMPs continue, the City will hire an erosion control company at your cost to prevent illegal discharges from occurring. Alternatively, you may also directly contact and hire an erosion control company to facilitate in bringing your construction site into compliance.

Attached you will find a third citation regarding the failure to install adequate BMPs. A copy of this citation is also being provided to the San Diego Regional Water Quality Control Board.

If you have any questions regarding this matter, please contact me at (619) 825-3825.

Sincerely,

  
Leon P. Firsh  
City Engineer

Copy: Phil Dowley, Bob Rodine, Ben Anderson  
File

3232 Main Street Lemon Grove California 91945-1705

619.825.3810 FAX: 619.825.3818 www.ci.lemon-grove.ca.us





If the violation is not corrected by the date specified therein and/or payment is not received by the date above, the next level of citation may be issued, other enforcement actions may occur, and penalties may be assessed (25% and interest at the rate of 10% per month). Payment of fine does not excuse or discharge the failure to correct violation identified below.


Person Cited: Anderson Tim  
(Last Name) (First Name)  
Circle One: Property Owner Tenant Business Owner Other Project Manager  
Mailing Address: 3194-C2 Airport Loop Road, Costa Mesa, CA 92626  
Business Name (if applicable): BCA Development CC: Phil Dowley, Code Enforcement File

Date (Violation Observed): 12/16/14 Time (Violation Observed): 12:25 PM  
 Location of Violation: 1350 San Altos Place / Valencia  
 (Street Address) (APN)  
 Violation(s) Observed (Code Section and Description):  
8.48.060, 18.08.170, 18.08.180, 18.08560  
 Follow up inspection re: 12/11/14 citation  
See attached report dated 12/16/14 (Tad Nakatani)

Install BMP's per Recommendations and Permit

Enforcing Officer Name  
Leon Firsht

Phone No.  
619-825-3825

Signature  


Date  
12/16/14

Person Cited – Signature Acknowledging Receipt \_\_\_\_\_ (Date)

Citation Served (circle one):  
In Person By Mail / Email n Property

CITATION CARD OWNER





CITY OF LEMON GROVE  
3232 Main Street, Lemon Grove, CA 91945

## NPDES STORMWATER PROGRAM CONSTRUCTION STORMWATER COMPLIANCE INSPECTION FORM

Inspector Name /Signature/Date/Time: TAD NAKATANI 12/16/14 12:25

Inspection: ☐ Permit-Required Inspection ☒ Follow-up Inspection ☐ Other (Explain) \_\_\_\_\_

Construction Project Priority: ☐ High ☒ Medium ☐ Low

### GENERAL INFORMATION

Grading or Building Permit #: GR-1697

Project Name & Type: VALENCIA SUBDIVISION

Project Location & Address: SAN ALTOS PLACE

Contractor's Name & Telephone #: ANDERSON DEVELOPMENT (949) 275-6739

Property Owner & Telephone #: SAN ALTOS LLC

Is this Project Greater than an Acre? ☒ Yes ☐ No ☐ N/A

If yes: Provide Record of Waste Discharge Identification Number (WDID#): 937C369143

Does this Project have an NOI/SWPPP Available? ☒ Yes ☐ No ☐ N/A

Is Weather Triggered Action Plan Completed? ☐ Yes ☐ No ☒ N/A

Is Advanced Treatment Implemented Appropriately? ☐ Yes ☐ No ☒ N/A

Is More than 17 Acres of Cleared or Graded Areas Left Exposed at Any Given Time? ☐ Yes ☒ No ☐ N/A

Is 125% of Materials to Install Standby BMPs Available? ☐ Yes ☒ No ☐ N/A

Are Routine Self-Inspections Being Conducted by Developer/Owner? ☒ Yes ☐ No ☐ N/A

Project Site is in What Sub-Watershed: ☒ Chollas Creek 908.22 ☐ Sweetwater River 909.12

Nearest Conveyances or Water Bodies: \_\_\_\_\_

BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
<b>Soil Stabilization and Erosion Prevention</b>					
Preservation of existing vegetation?			<input checked="" type="checkbox"/>		
Physical Stabilization: Hydraulic Mulch, Hydroseeding, Soil Binders, Straw Mulch	<input checked="" type="checkbox"/>			Numerous gullies still unprotected Some roads & slopes still unstabilized	No
Geotextiles, Plastic Covers, Erosion Prevention Blankets, Wood Mulching	<input checked="" type="checkbox"/>			Some plastic covers need to be repositioned/reinstalled	No
Site Drainage: Outlet Protection/Slope Drain		<input checked="" type="checkbox"/>			
Inlet/Outlet Protection		<input checked="" type="checkbox"/>			
<b>Sediment Control/Containment</b>					
Perimeter Protection: Silt Fencing, Gravel Bags, Fiber Rolls	<input checked="" type="checkbox"/>			Addtional perimeter & slope protection still needed for on west side	No
Storm Drain inlet protection: Sediment Trap, De-silting Basin, Gravel Bag Barrier	<input checked="" type="checkbox"/>				Yes



BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
Tracking Controls: Stabilized Entrance/Exit Road Stabilization, Tire Wash, Street Sweeping	X			NE ENTRANCE PERPETUALLY WILL NOT BE USED FOR VEHICLES. GATE LOCKED & GRAVEL TAGS PLACED	Yes
<b>Materials and Equipment Management</b>					
Are materials and wastes stored in a manner that minimizes or eliminates the potential to discharge these materials to the storm drain system, is secondary containment used?	X				Yes
Are material stockpiles protected: covered, contained and located away from non-storm water discharges?	X				Yes
Are heavy equipment and vehicles parked in designated areas with permeable surface?	X				Yes
Are appropriate spill response and containment measures kept on the site?	X				Yes
Are wastes managed and stored properly (Solid, liquid, sanitary, concrete, hazardous)	X				Yes
Are concrete washouts properly installed, maintained with no evidence of discharges.	X				Yes
Is timely service and removal provided to prevent waste containers and sanitary facilities from overflowing?	X				Yes
<b>Non-Storm Water Management</b>					
Is the site free of evidence of illegal connections and/or illicit discharges?	X			No discharge during inspection but high turbidity during previous storm	Yes
<b>Discharge Locations</b>					
Are the discharge locations free of significant erosion or sediment transport?		X		Still significant sediment on AKINS	No
<b>Other</b>					
Are there any other potential storm water pollution issues/concerns?	X			Roadway stabilization/check dams in complete	No
Was there any employee or subcontractor training on stormwater BMPs?			X	Not discussed	

### VIOLATIONS

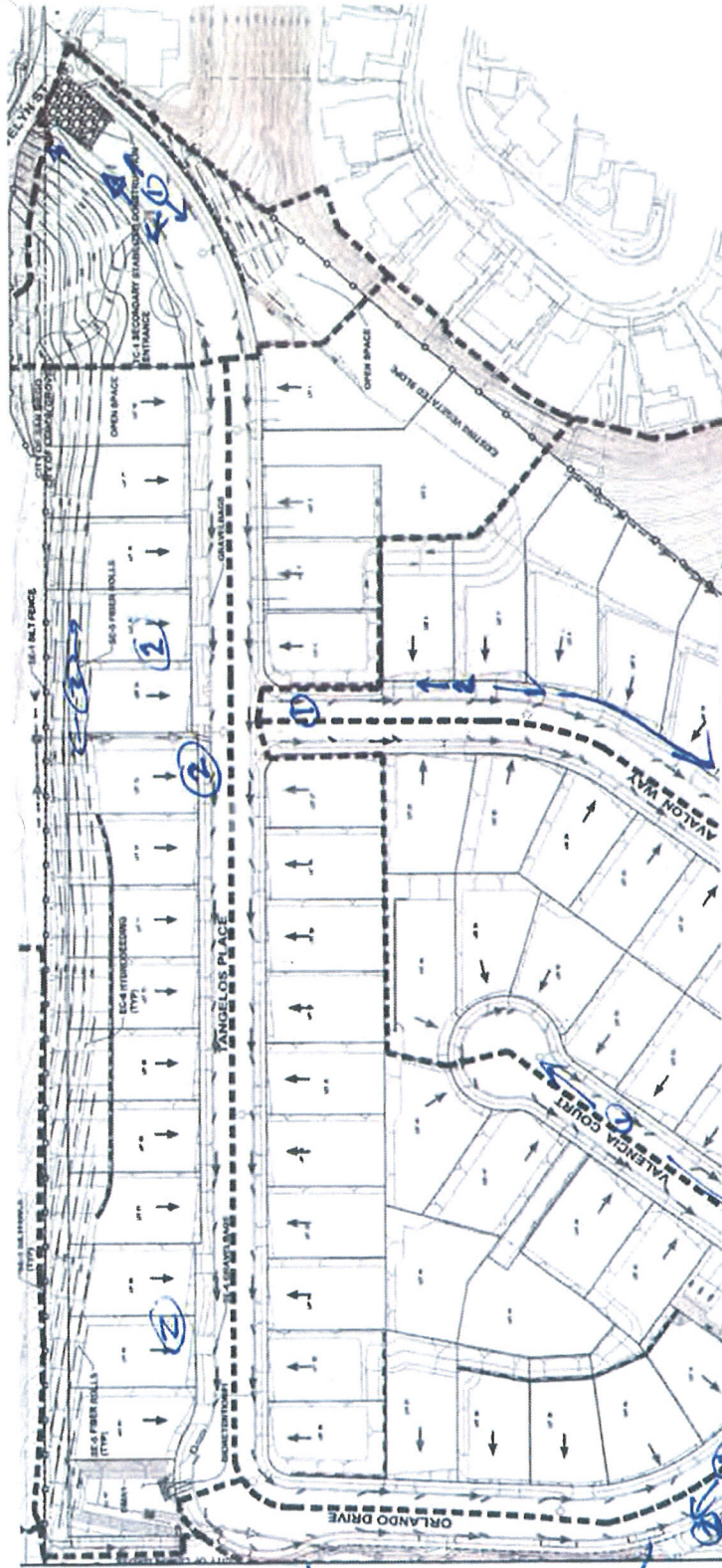
- ☐ No violations noted at time of inspection/investigation
- ☒ No violations; however, recommended corrective actions required
- ☒ Inspection Form as Correct Work Notice ☐ Correct Work Notice Issued on: \_\_\_\_\_
- ☒ Violation: Illegal Discharge/Illegal Connection/Improper BMPs Implementation
- ☒ Stop Work Notice Issued on: ONGOING STOP WORK/ADMIN. CITATION

### RECOMMENDED CORRECTIVE ACTION

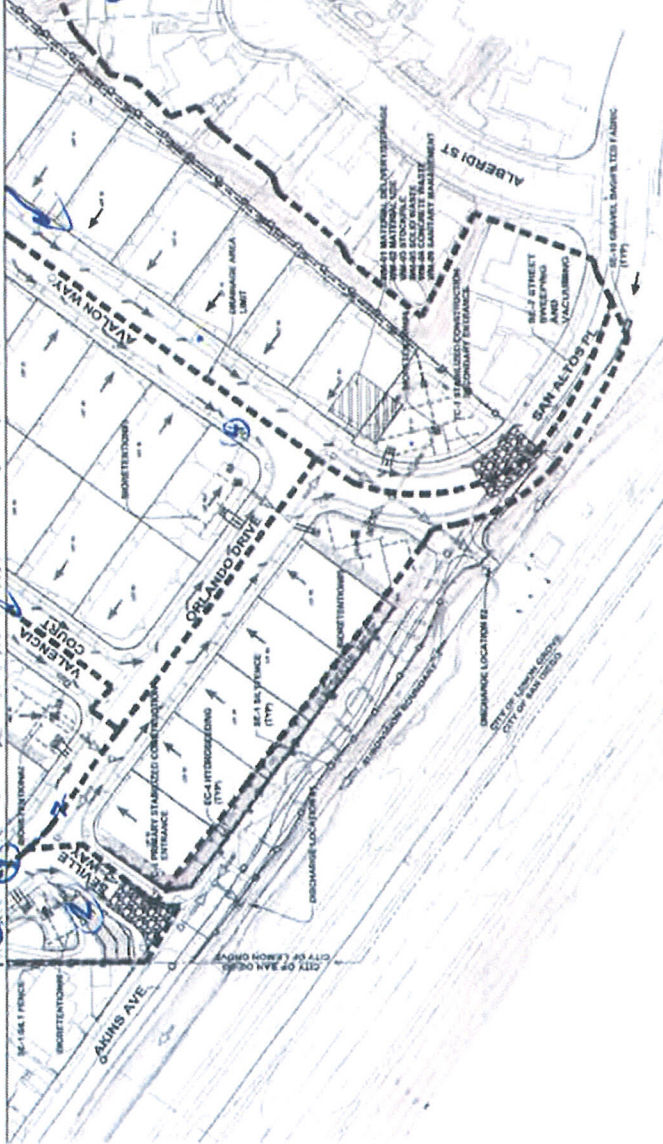
- COMPLETE ROADWAY STABILIZATION & CHECK DAMS. STABILIZE AREA WHERE CONCENTRATED FLOW FROM ROAD IS DIRECTED TO BASIN
- ADD EROSION CONTROLS TO STABILIZE REMAINING PADS, SLOPES AT EDGES OF PADS AND AREA NEAR ENTRANCE ON AKINS
- ADD FIBER ROLLS ON SLOPES ON WESTERN EDGE
- REPAIR & STABILIZE GULLIES THROUGHOUT SITE



12/16/2014



- ① ROADWAY STABILIZATION / CHECK DAMS NEEDED
- ② STABILIZATION EROSION CONTROLS NEEDED
- ③ ADD FIVE ROLL ROLLS ON SLOPE
- ④ Stabilize area of concentrated flow toward basin
- ⑤ Repair/stabilize gullies (Numerous locations - Not individually shown on map)





**Memo****Date:** December 17, 2014**To:** Malik Tamimi**Cc:** Tad Nakatani; John Quenzer**From:** Brian Nemerow**Subject:** December 17, 2014 Field Visit at Valencia Construction Site

Per the City's request, D-MAX visited the Valencia construction site on the morning of December 17, 2014, following a storm earlier in the morning. Rain had ended a few hours prior to the site visit, and no runoff was observed flowing out from the construction site at the Akins or San Altos entrance/exit locations at the time of the site visit.

**Evidence of sediment discharge** was observed at the Akins entrance/exit location (Photos 1 and 2) and along the curb farther downstream (Photo 3). A crew from Downstream Services was power washing the curb along Akins to remove accumulated sediment (Photos 4, 5, and 6). This indicates that there likely had been a noticeable sediment discharge earlier in the day. Based on talking with the crew, our understanding is that they were working on behalf of the Valencia project, and they also planned to use a vector truck to remove accumulated sediment from the downstream storm drain on Akins. The crew was taking measures to prevent discharge of water from power washing, including using a vector truck to reclaim the water, but a small amount of water was observed discharging to the inlet along Akins. The water was seeping through gravel bags around the inlet and discharge to the storm drain. A sample of the power washing discharge water was collected, and turbidity was measured at 52 NTU.



Figure 1. Observation Locations





Photo 1. Evidence of sediment discharge at Akins entrance/exit



Photo 2. Evidence of sediment discharge at Akins entrance/exit





Photo 3. Sediment accumulation along Akins curb gutter, downstream of Akins entrance/exit



Photo 4. Power washing activity performed by Downstream Services





Photo 5. Power washing activity performed by Downstream Services



Photo 6. Power washing activity performed by Downstream Services



Exhibit No. 11



## California Regional Water Quality Control Board, San Diego Region

December 19, 2014

Via email only

Ben Anderson  
San Altos Lemon Grove LLC  
5780 Fleet Avenue  
Carlsbad, California 92008  
[bencanderson@bcadevelopment.com](mailto:bencanderson@bcadevelopment.com)

In reply refer to / attn:  
**SM-828060:wchiu**

**Subject: Notice of Violation No. R9-2014-0153, Valencia Construction Project, Order No. 2009-0009-DWQ, NPDES Permit No. CAS000002, Construction General Permit**

Mr. Anderson:

Enclosed is Notice of Violation (NOV) No. R9-2014-0153 issued to San Altos Lemon Grove LLC for violations of Order No. 2009-0009-DWQ, issued by the California State Water Resources Control Board and overseen by the California Regional Water Quality Control Board, San Diego Region (San Diego Water Board). As described in the NOV, the violations are subject to further enforcement pursuant to the California Water Code. The San Diego Water Board reserves the right to take any enforcement action authorized by law.

Please provide a written response **by January 2, 2014** that confirms the violations have been corrected, identify a date by which the violations were corrected, and description of the actions taken to ensure future violations of Order No. 2009-0009-DWQ will not occur.

In making the determination of whether and how to proceed with further enforcement action, the San Diego Water Board will consider the severity and effect of the violation, the level of cooperation, the time it takes to correct the identified violations, and the sufficiency of the corrections.

Please send any written correspondence in response to this letter to [SanDiego@waterboards.ca.gov](mailto:SanDiego@waterboards.ca.gov). These electronic documents must be submitted as a single file, in Portable Document Format (PDF) format, and converted to text searchable format using Optical Character Recognition (OCR). All electronic documents must also include scanned copies of all signature pages; electronic signatures will not be accepted. Electronic documents submitted to the San Diego Water Board must include the following identification numbers in the header or subject line: **PIN: SM-828060:wchiu**.

HENRY ABARBANEL, CHAIR | DAVID GIBSON, EXECUTIVE OFFICER

2375 Northside Drive, Suite 100, San Diego, CA 92108-2700 | (619) 516-1990 | [www.waterboards.ca.gov/sandiego](http://www.waterboards.ca.gov/sandiego)





For questions pertaining to the subject matter, please contact Wayne Chiu at (619) 521-3354 or [wchiu@waterboards.ca.gov](mailto:wchiu@waterboards.ca.gov).

Respectfully,



Eric S. Becker, P.E.  
Senior Water Resource Control Engineer  
Storm Water Management Unit

ESB:wc

Enclosure: Notice of Violation No. R9-2014-0153

cc (via email only): Tim Anderson, BCA Development ([tima@bcadevelopment.com](mailto:tima@bcadevelopment.com))  
Donald Sturgeon, Whitson CM ([dsturgeon@whitsoncm.com](mailto:dsturgeon@whitsoncm.com))  
Leon Firsht, City of Lemon Grove ([lfirsht@lemongrove.ca.gov](mailto:lfirsht@lemongrove.ca.gov))  
Gary Harper, City of Lemon Grove ([gharper@lemongrove.ca.gov](mailto:gharper@lemongrove.ca.gov))  
Malik Tamimi, City of Lemon Grove ([mtamimi@lemongrove.ca.gov](mailto:mtamimi@lemongrove.ca.gov))

Tech Staff Info & Use	
Order No.	2009-0009-DWQ
NPDES No.	CAS000002
Place ID	SM-828060
WDID	937C369143
Inspection ID	2024185
Violation ID	855345, 855346
Enforcement ID	417155



California Regional Water Quality Control Board, San Diego Region

December 19, 2014

**NOTICE OF VIOLATION  
No. R9-2014-0153**

Ben Anderson  
San Altos Lemon Grove LLC  
5780 Fleet Avenue  
Carlsbad, California 92008

San Altos Lemon Grove LLC

Valencia Construction Project  
PIN No. SM-828060:wchiu

**Violations of**

**Order No. 2009-0009-DWQ,  
Construction General Permit**

SAN ALTOS LEMON GROVE LLC is hereby notified that the California Regional Water Quality Control Board, San Diego Region (San Diego Water Board) reserves the right to take any enforcement action authorized by law for the violations described herein.

SAN ALTOS LEMON GROVE LLC is in violation of State Water Resources Control Board (State Water Board) Order No. 2009-0009-DWQ, NPDES No. CAS000002, *National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities* (Construction General Permit).

**A. Summary of Violations**

**Construction General Permit Violations**

**1. Failure to Comply with Discharge Prohibitions for Construction Activities:**

- a. **Pursuant to Provision III.B of State Water Board Order No. 2009-0009-DWQ:**  
All discharges are prohibited except for the storm water and non-storm water discharges specifically authorized by this General Permit or another NPDES permit.
- b. **Observation:** On December 4, 2014, the San Diego Water Board inspected the Valencia construction site (WDID 937C369143). San Altos Lemon Grove LLC is the

Legally Responsible Person (LRP) enrolled under the Construction General Permit (CGP) for the site. On December 4 and 11, 2014, the City of Lemon Grove documented unauthorized discharges of sediment and sediment-laden storm water from the site due to inadequate implementation of best management practices (BMPs). On December 15, 2014, the San Diego Water Board inspector observed evidence of sediment discharged from the site due to inadequate and ineffective implementation of BMPs, constituting an unauthorized discharge of sediment from the site. See attached December 15, 2014 Facility Inspection Report Photos 9 through 12 and Attachments.

**2. Failure to Comply with Effluent Limitations for Construction Activities:**

- a. Pursuant to Provision V.A.2 of State Water Board Order No. 2009-0009-DWQ:** Dischargers shall minimize or prevent pollutants in storm water discharges and authorized non-storm water discharges through the use of controls, structures, and management practices that achieve Best Available Technology Economically Achievable (BAT) for toxic and non-conventional pollutants and Best Conventional Pollutant Control Technology (BCT) for conventional pollutants.
- b. Pursuant to Provision IX and Section A.1.b of Attachment C of State Water Board Order No. 2009-0009-DWQ:** Dischargers shall minimize or prevent pollutants in storm water and authorized non-storm water discharges through the use of controls, structures, and management practices that achieve BAT for toxic and non-conventional pollutants and BCT for conventional pollutants.
- c. Observation:** During the December 15, 2014 inspection, the San Diego Water Board inspector observed the lack of effective erosion controls, perimeter sediment controls, and run-on and runoff controls required by the CGP, which directly lead to erosion and sedimentation that ultimately resulted in the discharge of sediment from the site observed on December 15, 2014. The discharge was a result of the implementation of controls, structures, and BMPs that do not achieve BCT. See attached December 4, 2014 Facility Inspection Report Photos 1 through 14.

**3. Failure to Implement Good Site Management "Housekeeping" Best Management Practices (BMPs) for Construction Materials and Waste Management:**

- a. Pursuant to Provision X and Section B.1.a of Attachment D of State Water Board Order No. 2009-0009-DWQ:** Risk Level 2 dischargers are required to cover and berm loose stockpiled construction materials that are not actively being used (i.e. soil, spoils, aggregate, fly-ash, stucco, hydrated lime, etc.).
- b. Pursuant to Provision X and Section B.2.f of Attachment D of State Water Board Order No. 2009-0009-DWQ:** Risk Level 2 dischargers are required to contain and securely protect stockpiled waste material from wind and rain at all times unless actively being used.

- c. **Observation:** During the December 15, 2014 inspection, the San Diego Water Board inspector observed soil stockpiles without adequate cover, berm, containment or protection, resulting in erosion and sediment transport. See attached December 15, 2014 Facility Inspection Report Photo 1.
- 4. **Failure to Implement Good Site Management “Housekeeping” BMPs for Vehicle Storage and Maintenance:**
  - a. **Pursuant to Provision X and Section B.3.a of Attachment D of State Water Board Order No. 2009-0009-DWQ:** Risk Level 2 dischargers are required to prevent oil, grease, or fuel to leak in to the ground, storm drains or surface waters.
  - b. **Pursuant to Provision X and Section B.3.b of Attachment D of State Water Board Order No. 2009-0009-DWQ:** Risk Level 2 dischargers are required to place all equipment or vehicles, which are to be fueled, maintained and stored in a designated area fitted with appropriate BMPs.
  - c. **Observation:** During the December 15, 2014 inspection, the San Diego Water Board inspector observed several construction vehicles stored without appropriate BMPs to prevent oil, grease or fuel to leak in to the ground, storm drains or surface waters. See attached December 4, 2014 Facility Inspection Report Photos 2 and 3.
- 5. **Failure to Implement Adequate Erosion Controls for Inactive Areas:**
  - a. **Pursuant to Provision X and Section D.2 of Attachment D of State Water Board Order No. 2009-0009-DWQ:** Risk Level 2 dischargers shall provide effective soil cover for inactive areas and all finished slopes, open space, utility backfill, and completed lots.
  - b. **Observation:** During the December 15, 2014 inspection, the San Diego Water Board inspector observed several completed building pads and slopes on the site that appeared to be inactive, or could be scheduled to be inactive, without effective soil cover or other BMPs that could prevent erosion. Evidence of erosion and sediment transport due to lack of erosion control measures for inactive areas were observed throughout the site during the inspection. See attached December 15, 2014 Facility Inspection Report Photos 4 through 7.
- 6. **Failure to Implement Adequate Perimeter Sediment Controls:**
  - a. **Pursuant to Provision X and Section E.1 of Attachment D of State Water Board Order No. 2009-0009-DWQ:** Risk Level 2 dischargers shall establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from the site.
  - b. **Observation:** During the December 15, 2014 inspection, the San Diego Water Board inspector observed several areas of the site where perimeter controls were

not established or maintained to sufficiently control erosion and sediment discharges from the site. See attached December 15, 2014 Facility Inspection Report Photos 9 through 14.

**7. Failure to Implement Adequate Erosion Controls for Active Areas:**

- a. **Pursuant to Provision X and Section E.3 of Attachment D of State Water Board Order No. 2009-0009-DWQ:** Risk Level 2 dischargers shall implement appropriate erosion control BMPs (runoff control and soil stabilization) in conjunction with sediment control BMPs for areas under active construction.
- b. **Observation:** During the December 15, 2014 inspection, the San Diego Water Board inspector observed several active areas of the site that did not have appropriate erosion control BMPs in place or ready to be deployed. See attached December 15, 2014 Facility Inspection Report Finding 4 and Photo 8.

**8. Failure to Implement Adequate Linear Sediment Controls for Exposed Slopes:**

- a. **Pursuant to Provision X and Section E.4 of Attachment D of State Water Board Order No. 2009-0009-DWQ:** Risk Level 2 dischargers shall apply linear sediment controls along the toe of the slope, face of the slope, and at the grade breaks of exposed slopes to comply with sheet flow lengths in accordance with Table 1.
- b. **Observation:** During the December 15, 2014 inspection, the San Diego Water Board inspector observed several slopes throughout the site without linear sediment controls along the toe and grade breaks of exposed slopes. See attached December 15, 2014 Facility Inspection Report Photos 4 through 7.

**9. Failure to Implement Adequate Run-on and Runoff Controls:**

- a. **Pursuant to Provision X and Section F of Attachment D of State Water Board Order No. 2009-0009-DWQ:** Risk Level 2 shall effectively manage all run-on, all runoff within the site and all runoff that discharges from the site. Run-on from off site shall be directed away from all disturbed areas or shall collectively be in compliance with the effluent limitations in the CGP.
- b. **Observation:** During the December 15, 2014 inspection, the San Diego Water Board inspector observed a lack of effective runoff controls within the site, and at several areas around the site where perimeter controls were not established or maintained to prevent run-on to and runoff from the site, resulting in sediment being allowed to be discharged in runoff from the site. See attached December 15, 2014 Facility Inspection Report Photos 8 through 14.



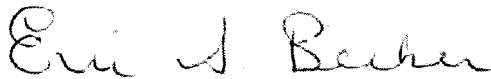
## B. Summary of Potential Enforcement Options

These violations may subject you to additional enforcement by the San Diego Water Board or State Water Resources Control Board, including a potential civil liability assessment of \$10,000 per day of violation (Water Code section 13385) and/or any of the following enforcement actions:

Other Potential Enforcement Options	Applicable Water Code Section
Technical or Investigative Order	Sections 13267 or 13383
Cleanup and Abatement Order	Section 13304
Cease and Desist Order	Sections 13301-13303
Time Schedule Order	Sections 13300, 13308

In addition, the San Diego Water Board may consider revising or rescinding applicable waste discharge requirements, if any, referring the matter to other resource agencies, referring the matter to the State Attorney General for injunctive relief, and referral to the municipal or District Attorney for criminal prosecution.

In the subject line of any response, please include the information located in the heading of this letter: "in reply refer to." Questions pertaining to this Notice of Violation should be directed to Wayne Chiu at (619) 521-3354 or [wchiu@waterboards.ca.gov](mailto:wchiu@waterboards.ca.gov).



Eric S. Becker, P.E.  
Senior Water Resource Control Engineer  
Storm Water Management

ESB:wc

Attachments: Facility Inspection Report dated December 15, 2014

Tech Staff Info & Use	
Place ID	SM-828060
WDID	937C369143
Inspection ID	2024185
Violation ID	855345, 855346
Enforcement ID	417155

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - SAN DIEGO REGION  
WATERSHED PROTECTION PROGRAM**

**FACILITY INSPECTION REPORT**

**FACILITY:** Valencia  
**WDID/FILE NO.:** 937C369143

**INSPECTION DATE/TIME:** 12/15/2014; 10:00 am

**REPRESENTATIVE(S) PRESENT DURING INSPECTION:**

NAME: Wayne Chiu  
NAME: Ben Anderson  
NAME: Tim Anderson  
NAME: Donald Sturgeon  
NAME: Leon Firsh  
NAME: Gary Harper

AFFILIATION: San Diego Water Board  
AFFILIATION: BCA Development, Inc.  
AFFILIATION: BCA Development, Inc.  
AFFILIATION: Whitson CM  
AFFILIATION: City of Lemon Grove  
AFFILIATION: City of Lemon Grove

San Altos Lemon Grove LLC  
NAME OF OWNER, AGENCY OR PARTY RESPONSIBLE FOR DISCHARGE

5780 Fleet Avenue  
Carlsbad, CA 92008  
OWNER MAILING ADDRESS

Ben Anderson, 714-966-1544  
OWNER CONTACT NAME AND PHONE #

BCA Development, Inc.  
FACILITY OR DEVELOPER NAME (if different from owner)

1350 San Altos Place  
Lemon Grove, CA 91945  
FACILITY ADDRESS

Same  
FACILITY OR DEVELOPER CONTACT NAME AND PHONE #

**APPLICABLE WATER QUALITY LICENSING REQUIREMENTS:**

- |   |   |
|---|---|
| <input type="checkbox"/> MS4 URBAN RUNOFF REQUIREMENTS          | <input type="checkbox"/> GENERAL OR INDIVIDUAL WASTE DISCHARGE REQUIREMENTS OR NPDES  |
| <input checked="" type="checkbox"/> CONSTRUCTION GENERAL PERMIT | <input type="checkbox"/> GENERAL OR INDIVIDUAL WAIVER OF WASTE DISCHARGE REQUIREMENTS |
| <input type="checkbox"/> CALTRANS GENERAL PERMIT                | <input type="checkbox"/> SECTION 401 WATER QUALITY CERTIFICATION                      |
| <input type="checkbox"/> INDUSTRIAL GENERAL PERMIT              | <input type="checkbox"/> CWC SECTION 13264  |

**INSPECTION TYPE (Check One):**

- ☐ "A" TYPE COMPLIANCE--COMPREHENSIVE INSPECTION IN WHICH SAMPLES ARE TAKEN. (EPA TYPE S)
- ☐ "B" TYPE COMPLIANCE--A ROUTINE NONSAMPLING INSPECTION. (EPA TYPE C)
- ☐ NONCOMPLIANCE FOLLOW-UP--INSPECTION MADE TO VERIFY CORRECTION OF A PREVIOUSLY IDENTIFIED VIOLATION.
- ☐ ENFORCEMENT FOLLOW-UP--INSPECTION MADE TO VERIFY THAT CONDITIONS OF AN ENFORCEMENT ACTION ARE BEING MET.
- ☒ COMPLAINT--INSPECTION MADE IN RESPONSE TO A COMPLAINT.
- ☐ PRE-REQUIREMENT--INSPECTION MADE TO GATHER INFO. RELATIVE TO PREPARING, MODIFYING, OR RESCINDING REQUIREMENTS.
- ☐ NO EXPOSURE CERTIFICATION (NEC) - VERIFICATION THAT THERE IS NO EXPOSURE OF INDUSTRIAL ACTIVITIES TO STORM WATER.
- ☐ NOTICE OF TERMINATION REQUEST FOR INDUSTRIAL FACILITIES OR CONSTRUCTION SITES - VERIFICATION THAT THE FACILITY OR CONSTRUCTION SITE IS NOT SUBJECT TO PERMIT REQUIREMENTS.
- ☐ COMPLIANCE ASSISTANCE INSPECTION - OUTREACH INSPECTION DUE TO DISCHARGER'S REQUEST FOR COMPLIANCE ASSISTANCE.

**INSPECTION FINDINGS:**

Y WERE VIOLATIONS NOTED DURING THIS INSPECTION? (YES/NO/PENDING SAMPLE RESULTS)

Facility: Valencia  
Inspection Date: 12/15/2014

## I. COMPLIANCE HISTORY / PURPOSE OF INSPECTION

On December 2, 2014, the City of Lemon Grove (City) issued a Stop Work/Notice of Violation to the Valencia construction site (WDID 9 37C369143) for failing to implement construction storm water best management practices (BMPs) required by local ordinances. The City's inspection report issued with the Stop Work/Notice of Violation noted inadequate implementation of erosion controls, entrance/exit stabilization, and stockpile management and warned the project manager that a "discharge is imminent" without adequate BMPs. The site was required to stop work and implement BMPs to be prepared for a storm event that occurred on December 3 and 4, 2014.

The site failed to implement BMPs before the storm, resulting in unauthorized discharges of sediment and sediment-laden storm water from the site to the City's municipal separate storm sewer system (MS4). The City issued a second Stop Work/Notice of Violation on December 4, 2014 for the illegal discharges to the City's MS4. The City conducted a follow up inspection on December 9, 2014 and noted the same BMP deficiencies identified before the December 3 and 4, 2014 storm event, as well as additional deficiencies in perimeter sediment controls. The inspection report provided recommendations for locations that needed to be addressed and types of BMPs. The site again failed to implement BMPs before a subsequent storm event that occurred on December 11, 2014, again resulting in unauthorized discharges of sediment and sediment-laden storm water from the site to the City's MS4. On December 11, 2014, the City issued an Administrative Citation to the site requiring BMPs to be implemented by December 15, 2014 before monetary penalties would begin. The Stop Work/Notice of Violation issued on December 2 and 4, 2014 and the Administrative Citation issued on December 11, 2014 by the City are attached to the end of this inspection report.

On the morning of December 12, 2014, the City contacted the San Diego Water Board about the unauthorized discharges of sediment and sediment-laden storm water to their MS4 from the Valencia construction site. According to the City's storm water manager, the site owner was claiming the site was in compliance with the requirements of the Statewide Construction General Storm Water Permit, Order No. 2009-0009-DWQ (CGP) and therefore should be considered in compliance with the City's ordinances. The City's storm water manager requested an inspection from the San Diego Water Board to determine whether the construction site was in compliance with the requirements of the CGP.

Wayne Chiu of the San Diego Water Board performed an inspection of the Valencia construction site for compliance with the requirements CGP. According to the Storm Water Multiple Application & Report Tracking System (SMARTS), the site is a Risk Level 2 construction site, disturbing over 18 acres, and owned by San Alto Lemon Grove LLC. The developer of the site is BCA Development, Inc.

The San Diego Water Board inspector met with Mr. Ben Anderson, the contact for the owner and developer of the site, Mr. Tim Anderson, project manager for the developer,

Facility: Valencia  
Inspection Date: 12/15/2014

and Mr. Donald Sturgeon, the Qualified Storm Water Pollution Prevention Plan (SWPPP) Practitioner (QSP) performing the weekly inspections. Also present to observe during the inspection were Mr. Leon Firsht and Mr. Gary Harper, City Engineer and Construction Storm Water Inspector for the City of Lemon Grove, respectively. The San Diego Water Board inspector did not review the SWPPP or other records during the inspection.

## II. FINDINGS

1. Several stockpiles observed without adequate containment (See Photo 1). Evidence of erosion and sediment transport from the stockpile observed during the inspection. All construction sites are required to contain and securely protect stockpiled waste material from wind and rain at all times unless actively being used.
2. Construction equipment and vehicles observed without appropriate BMPs (e.g. drip pans) to prevent oil, grease, or fuel to leak in to the ground, storm drains, or surface waters (See Photos 2 and 3). All construction sites are required to prevent oil, grease or fuel to leak in to the ground, storm drains, or surface waters, and to place all equipment and vehicles, which are to be fueled, maintained and stored in a designated area fitted with appropriate BMPs.
3. Several areas were observed to be inactive, or could be scheduled to be inactive, without effective soil cover to control potential erosion. Several completed building pads and several inactive slopes (See Photos 4 through 7) lacked any effective soil cover for erosion control. The lack of erosion controls in these areas contributed to unauthorized sediment discharges from the site (See Photos 9 through 11). All construction sites are required to provide effective soil cover for inactive areas (i.e. areas that have been disturbed and not scheduled to be re-disturbed for at least 14 days) and all finished slopes, open space, utility backfill, and completed lots.
4. Active areas were observed to lack appropriate erosion control BMPs (runoff control and soil stabilization) to prevent erosion during storm events (See Photo 8). The project manager and QSP could not describe any erosion control measures that were in place or were ready to be deployed before the December 3 and 4, 2014 and December 11, 2014 storm events. Risk Level 2 construction sites are required to implement appropriate erosion control BMPs (runoff control and soil stabilization) in conjunction with sediment control BMPs for areas under active construction.
5. Several slopes throughout the site were observed to lack linear sediment controls along the toe and grade breaks of exposed slopes (See Photos 4 through 7). Risk Level 2 construction sites are required to apply linear sediment controls along the toe of the slope, face of the slopes, and at the grade breaks of exposed

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Inspection Date: 12/15/2014

slopes to comply with sheet flow lengths given in Table 1 of Attachment D to the CGP.

6. Lack of effective perimeter sediment controls observed which resulted in unauthorized sediment discharges from the site (See Photos 9 through 14). All construction sites are required to establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from the site.
7. Lack of effective run-on and runoff controls observed within and around the site which contributed to sediment discharges from the site (See Photos 4 and 14). All construction sites are required to effectively manage run-on, all runoff within the site and all runoff that discharges off the site.

### III. COMMENTS AND RECOMMENDATIONS

#### Comments

1. There is evidence that good site management "housekeeping" BMPs were not being adequately implemented (See Findings 1 and 2).
2. There is evidence that erosion controls were not adequately implemented for several inactive areas contributing to discharges of sediment from the site (See Finding 3).
3. There is evidence that erosion controls were not adequately implemented for several active areas prior to storm events contributing to discharges of sediment from the site (See Finding 4).
4. There is evidence that linear sediment controls were not adequately implemented for several exposed slopes contributing to slope erosion and discharges of sediment from the site (See Finding 5).
5. There is evidence that perimeter sediment controls, as well as run-on and runoff controls, were not adequately implemented which contributed to discharges of sediment from the site (See Findings 6 and 7).
6. There was evidence observed during the inspection that the site has not implemented BMPs to meet BCT Technology Based Effluent Limitations (TBELs) under Section V.A.2 of the CGP, as required for all construction sites, which resulted in the unauthorized discharges of sediment and sediment-laden water from the site observed or documented on December 4, 11, and 15, 2014 (See Compliance History discussion and Findings 1 through 7).



Facility: Valencia  
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7. There is evidence that either the QSP was not adequately identifying and recommending implementation of good site management "housekeeping," erosion control, sediment control, and run-on/runoff control BMPs, or the owner/developer was not directing the implementation of the BMPs as recommended by the QSP.

#### Recommendations

1. Issue a Notice of Violation for discharges of sediment from the site and failure to implement Risk Level 2 requirements of CGP.
2. Refer the site to the Compliance Assurance Unit to determine whether or not issuing formal enforcement action may be appropriate.

#### IV. SIGNATURE SECTION

Wayne Chiu  
STAFF INSPECTOR

SIGNATURE

12/15/2014  
INSPECTION DATE

Eric Becker  
REVIEWED BY SUPERVISOR

SIGNATURE

12/16/14  
DATE

#### SMARTS

Tech Staff Info & Use	
WDID	937C369143
Place ID	SM-828060
Inspection ID	2024185
Violation ID	855345, 855346

Facility: Valencia  
Inspection Date: 12/15/2014



**Photo 1**

**Photo 1** shows soil stockpile without adequate containment. Evidence of erosion and sediment transport along that base of the stockpile. Most stockpiles observed during inspection lacked adequate containment.



**Photo 2**



**Photo 3**

**Photos 2 and 3** show construction equipment and vehicles without appropriate BMPs (e.g. drip pans) to prevent oil, grease, or fuel to leak in to the ground, storm drains, or surface waters. Most vehicles observed during inspection lacked appropriate BMPs.



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Inspection Date: 12/15/2014



Photo 4



Photo 5



Photo 6



Photo 7



Photo 8

**Photos 4 through 7** show completed building pads and adjacent slopes without any erosion controls and evidence of significant erosion and sediment transport. **Photo 8** shows evidence of erosion and sediment transport in unpaved road sloping to locations shown in Photos 9 through 11. Sediment from completed lots and slopes in Photos 4 through 7 transported to road in Photo 8 lacking any erosion control measures during storm events, and inadequate runoff controls to reduce and prevent transport of sediment through site.



Facility: Valencia  
Inspection Date: 12/15/2014



Photo 9



Photo 10



Photo 11



Photo 12

**Photos 9 through 12** show inadequate implementation of perimeter sediment controls and run-on/runoff controls to prevent discharges of sediment from the site. Photo 9 shows evidence of erosion and sediment transport from road shown in Photo 8 to perimeter with inadequately installed perimeter sediment and runoff controls (i.e. fiber roll not properly trenched and staked). Photos 10 shows evidence of sediment transport from the site beneath the inadequately installed perimeter sediment and runoff controls. Photo 11 shows evidence of sediment transport from the site to MS4 channel protected by silt fence and gravel bags. Photo 12 shows sediment that has been discharged into the MS4 channel due to inadequate implementation of erosion, sediment, and runoff controls by the site.

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Photo 13



Photo 14

**Photos 13 and 14** show lack of effective perimeter sediment controls and run-on/runoff controls. Photo 13 shows evidence of erosion and sediment transport due to lack of perimeter run-on controls. Photo 14 shows evidence of sediment discharged from the site to the MS4 drainage system due to erosion caused by run-on that then ran off the site due to inadequate perimeter sediment controls and runoff controls.





# NOTICE

DATE: 12/2/14  
PROJECT: Valencia  
PROJECT #: GR-1692  
ADDRESS: SAN AITOS PL

## ☒ STOP WORK/NOTICE OF VIOLATION

Stop all other work until erosion control/NPDES deficiencies noted below are corrected. Issuance of this Stop Work Notice will notify the Regional Water Quality Control Board regarding your BMP deficiencies. This may subject you to fines of up to \$10,000/day.

## ☐ CORRECT WORK

Correct noted deficiencies within the specified time frame to avoid a Stop Work Notice:

☐ 24 Hours ☐ 72 Hours ☐ 5 Days ☐ Prior to October 1<sup>st</sup>, And/Or ☐ Before Rain Event

### THIS PROJECT IS IN CONFLICT WITH THE FOLLOWING:

- ☐ City of Lemon Grove Grading Ordinance\* ☒ City of Lemon Grove JURMP  
☐ Other: \_\_\_\_\_

### THE AREAS OF CONFLICT ARE:

- ☐ Erosion control is not on site ☐ Erosion control is not per the approved plan  
☒ Erosion control is inadequate ☐ Failure to maintain erosion/sediment control device  
☐ Other \_\_\_\_\_

### THE FOLLOWING DEFICIENCIES ARE NOTED:

- ☒ Stabilized construction entrance ☐ Runoff from the site ☐ Desilting basin  
☐ Perimeter protection at toe of slope ☐ Waste/materials storage  
☐ Concrete washout inadequate, not maintained ☐ No secondary containment  
☒ Cover stockpiles ☐ No storm drain inlet/outlet protection ☐ Trash/debris not managed  
☐ Cover on sloped and/or flat areas that are inactive for more than 10 days  
☐ Other \_\_\_\_\_

\*\*\*STOP/ CORRECT WORK ADEQUATELY ADDRESSED (DATE/SIGNATURE) \_\_\_\_\_

- CC: ☒ City Engineer  
☒ Engineering  
☐ Management Analyst  
☐ Code Compliance  
☐ Building  
☐ RWQCB

ISSUED TO: Tim Anderson (via email)  
DATE/TIME: 12/2/14 3pm  
BY: GARY HARPER  
TITLE: Eng. Inspector  
PHONE: (619) 454-1272

IF YOU HAVE FURTHER QUESTIONS, PLEASE  
CALL THE CITY OF LEMON GROVE'S  
DEVELOPMENT SERVICES DEPARTMENT AT  
(619) 825-3805.

\* Having deficiencies in your erosion control is a violation of the City of Lemon Grove's Grading Ordinance. A violation of the City's Grading Ordinance is a misdemeanor. Each separate day or portion thereof on which a violation exists or is allowed to exist shall constitute a separate offense punishable by the provisions of the Ordinance.





CITY OF LEMON GROVE  
3232 Main Street, Lemon Grove, CA 91945

## NPDES STORMWATER PROGRAM CONSTRUCTION STORMWATER COMPLIANCE INSPECTION FORM

Inspector Name /Signature/Date/Time: Harper / Jan / 12/2/14 / 1pm

Inspection: ☐ Permit-Required Inspection ☐ Follow-up Inspection ☒ Other (Explain) Weekly

Construction Project Priority: ☐ High ☐ Medium ☐ Low

### GENERAL INFORMATION

Grading or Building Permit #: GC-1692

Project Name & Type: Valencia, Subdivision

Project Location & Address: SAN AITOJ PL

Contractor's Name & Telephone #: Anderson Development (949) 275-6239

Property Owner & Telephone #: SAN AITOJ LLC

Is this Project Greater than an Acre? ☒ Yes ☐ No ☐ N/A

If yes: Provide Record of Waste Discharge Identification Number (WDID#): 937C 36 9143

Does this Project have an NOI/SWPPP Available? ☒ Yes ☐ No ☐ N/A

Is Weather Triggered Action Plan Completed? ☒ Yes ☐ No ☐ N/A

Is Advanced Treatment Implemented Appropriately? ☐ Yes ☐ No ☒ N/A

Is More than 17 Acres of Cleared or Graded Areas Left Exposed at Any Given Time? ☐ Yes ☒ No ☐ N/A

Is 125% of Materials to Install Standby BMPs Available? ☐ Yes ☒ No ☐ N/A

Are Routine Self-Inspections Being Conducted by Developer/Owner? ☒ Yes ☐ No ☐ N/A

Project Site is in What Sub-Watershed: ☐ Chollas Creek 908.22 ☐ Sweetwater River 909.12

Nearest Conveyances or Water Bodies: MS4

BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
<b>Soil Stabilization and Erosion Prevention</b>					
Is construction site phased/scheduled to address erosion control on a timely basis?	<input checked="" type="checkbox"/>			Contractor Hydroseeding AS NEEDED, BUT DID NOT SEED AS PLANNED	<input checked="" type="checkbox"/>
Preservation of existing vegetation?	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>
Physical Stabilization: Hydraulic Mulch, Hydroseeding, Soil Binders, Straw Mulch					
Geotextiles, Plastic Covers, Erosion Prevention Blankets, Wood Mulching	<input checked="" type="checkbox"/>			NOT ENOUGH PLASTIC COVERS FOR STOCKPILES	<input checked="" type="checkbox"/>
Site Drainage: Outlet Protection/Slope Drain	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>
Inlet/Outlet Protection	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>
<b>Sediment Control/Containment</b>					
Perimeter Protection: Silt Fencing, Gravel Bags, Fiber Rolls	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>



BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
Storm Drain inlet protection: Sediment Trap, De-silting Basin, Gravel Bag Barrier	Y				Y
Tracking Controls: Stabilized Entrance/Exit Road Stabilization, Tire Wash, Street Sweeping	Y			ENTRANCE NEEDS TO BE CLEARED. ALSO NEED STREET SWEEP	NO
<b>Materials and Equipment Management</b>					
Are materials and wastes stored in a manner that minimizes or eliminates the potential to discharge these materials to the storm drain system, is secondary containment used?	Y				Y
Are material stockpiles protected: covered, contained and located away from non-storm water discharges?	Y			SOME ARE COVERED SOME ARE NOT	NO
Are heavy equipment and vehicles parked in designated areas with permeable surface?	Y				Y
Are appropriate spill response and containment measures kept on the site?	Y				Y
Are wastes managed and stored properly (Solid, liquid, sanitary, concrete, hazardous)	Y				Y
Are concrete washouts properly installed, maintained with no evidence of discharges.	Y				Y
Is timely service and removal provided to prevent waste containers and sanitary facilities from overflowing?	Y				Y
<b>Non-Storm Water Management</b>					
Is the site free of evidence of illegal connections and/or illicit discharges?	Y				Y
<b>Discharge Locations</b>					
Are the discharge locations free of significant erosion or sediment transport?		N		TC-1 IS DOWNSTREAM OF UPPER SITE'S NEEDS TO BE CLEARED	NO
<b>Other</b>					
Are there any other potential storm water pollution issues/concerns?	Y			RAIN EVENT TODAY, TC-1 SHOULD BE PROTECTED	NO
Was there any employee or subcontractor training on stormwater BMPs?		N			

#### VIOLATIONS

- ☐ No violations noted at time of inspection/investigation  
☐ No violations; however, recommended corrective actions required  
☐ Inspection Form as Correct Work Notice ☐ Correct Work Notice Issued on: \_\_\_\_\_  
☒ Violation: Illegal Discharge/Illegal Connection/Improper BMPs Implementation  
☒ Stop Work Notice Issued on: 12/2/14

#### RECOMMENDED CORRECTIVE ACTION

SEE STOP WORK NOTICE - Discharge is  
IMMINENT IF NOAA FORECAST CORRECT: 100% Heavy  
RAIN THIS AFTERNOON.  
I CALL TO TIM ANASTON THIS MORNING AT 9AM.  
LEFT V. MAIL THAT SITUATION NEEDED ATTENTION ASAP - NO  
RETURN CALL





# NOTICE

DATE: 12/4/2014  
 PROJECT: Valencia  
 PROJECT #: GIR-1692  
 ADDRESS: SAN ANTONIO PL

## ☒ STOP WORK/NOTICE OF VIOLATION

Stop all other work until erosion control/NPDES deficiencies noted below are corrected. Issuance of this Stop Work Notice will notify the Regional Water Quality Control Board regarding your BMP deficiencies. This may subject you to fines of up to \$10,000/day.

## ☐ CORRECT WORK

Correct noted deficiencies within the specified time frame to avoid a Stop Work Notice:

☐ 24 Hours ☐ 72 Hours ☐ 5 Days ☐ Prior to October 1<sup>st</sup>, And/Or ☐ Before Rain Event

### THIS PROJECT IS IN CONFLICT WITH THE FOLLOWING:

- ☐ City of Lemon Grove Grading Ordinance\* ☒ City of Lemon Grove JURMP  
☐ Other: \_\_\_\_\_

### THE AREAS OF CONFLICT ARE:

- ☐ Erosion control is not on site ☒ Erosion control is not per the approved plan  
☒ Erosion control is inadequate ☒ Failure to maintain erosion/sediment control device  
☐ Other: \_\_\_\_\_

### THE FOLLOWING DEFICIENCIES ARE NOTED:

- ☒ Stabilized construction entrance ☒ Runoff from the site ☐ Desilting basin  
☐ Perimeter protection at toe of slope ☐ Waste/materials storage  
☐ Concrete washout inadequate, not maintained ☐ No secondary containment  
☒ Cover stockpiles ☐ No storm drain inlet/outlet protection ☐ Trash/debris not managed  
☐ Cover on sloped and/or flat areas that are inactive for more than 10 days  
☒ Other: Illegal Discharge

\*\*\*STOP/ CORRECT WORK ADEQUATELY ADDRESSED (DATE/SIGNATURE) \_\_\_\_\_

- CC: ☒ City Engineer  
☒ Engineering  
☐ Management Analyst  
☐ Code Compliance  
☐ Building  
☒ RWQCB

ISSUED TO: Tim Anderson (Email)  
 DATE/TIME: 12/4/2014 10AM  
 BY: GARY HARTER  
 TITLE: ENGR. INSPECTOR  
 PHONE: (619) 454 1272

IF YOU HAVE FURTHER QUESTIONS, PLEASE  
 CALL THE CITY OF LEMON GROVE'S  
 DEVELOPMENT SERVICES DEPARTMENT AT  
 (619) 825-3805.

\* Having deficiencies in your erosion control is a violation of the City of Lemon Grove's Grading Ordinance. A violation of the City's Grading Ordinance is a misdemeanor. Each separate day or portion thereof on which a violation exists or is allowed to exist shall constitute a separate offense punishable by the provisions of the Ordinance.





# CITY OF LEMON GROVE ADMINISTRATIVE CITATION

## A) TYPE OF VIOLATION

Circle One:

Warning

1<sup>st</sup> Citation  
\$100

2<sup>nd</sup> Citation  
\$200

3<sup>rd</sup> Citation  
\$500

4<sup>th</sup> Citation  
\$1,000

Payment of \$        is due no later than        to the City of Lemon Grove.  
The City accepts cash, check or credit card.

If the violation is not corrected by the date specified therein and/or payment is not received by the date above, the next level of citation may be issued, other enforcement actions may occur, and penalties may be assessed (25% and interest at the rate of 10% per month). Payment of fine does not excuse or discharge the failure to correct violation identified below.

## B) RESPONSIBLE PARTY INFORMATION

Person Cited:

Anderson  
(Last Name)

Tim  
(First Name)

Circle One:

Property Owner

Tenant

Business Owner

Other

Site Representative  
1 Project Manager

Mailing Address:

3194-C2 Airport Loop Drive

Business Name (if applicable):

Corta Mesa, CA 92626  
BCT Development

## C) VIOLATION(S) INFORMATION

Date (Violation Observed):

12/11/14

Time (Violation Observed):

4:00-5:00 P.M.

Location of Violation:

1350 San Altos, LG / Valencia  
(Street Address)

(APN)

Violation(s) Observed (Code Section and Description):

B.4B.060

18.08.560

Inadequate BMP's - see  
attached inspection reports

18.08.170

18.08.180

## D) CORRECTION(S) REQUIRED (with date to complete corrections)

Install BMP's per Recommendations  
Maintain adequate surplus of BMP's

12/15/14

5:00 P.M.

## E) SERVICING CITATION INFORMATION

Enforcing Officer Name

Leon Fingst

Phone No.

619-825-3825

Signature

[Signature]

Date

12/11/14

Person Cited - Signature Acknowledging Receipt

(Date)

Citation Served (circle one):

In Person

By Mail

Posted on Property

This citation may be appealed within thirty (30) days from date of correction identified in Section D. To request an appeal, a Request an Appeal Hearing form (available at City Hall) should be completed and returned to City Hall. In the event a Hardship Waiver is requested, the Request for an Appeal Hearing and Hardship Waiver forms are required within fifteen (15) days from the correction date identified in Section D.

WHITE-ORIGINAL

PINK-COPY

CITATION CARD-OWNER



Lemon Grove Municipal Code							
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Title 8 HEALTH AND SAFETY							
Chapter 8.48 STORMWATER MANAGEMENT AND DISCHARGE CONTROL							

### **8.48.060 Best management practice requirements and general requirements applicable to all dischargers.**

A. **Applicable Requirements.** All dischargers in the city must comply with the generally applicable prohibitions and requirements in Sections 8.48.010 through 8.48.060 of this chapter, and must also comply with any other parts of this chapter (including relevant parts of the Manual) that are applicable to the type of facility or activity owned or operated by that discharger.

B. **Minimum Best Management Practices for All Dischargers.** All dischargers in the city must install, implement and maintain at least the following minimum BMPs:

1. **Eroded Soils.** Prior to the rainy season, dischargers must remove or secure any significant accumulations of eroded soils from slopes previously disturbed by clearing or grading, if those eroded soils could otherwise enter the stormwater conveyance system or receiving waters during the rainy season.
2. **Pollution Prevention.** Dischargers employing ten or more persons on a full-time basis shall implement those stormwater pollution prevention practices that are generally recognized in that discharger's industry or business as being effective and economically advantageous.
3. **Prevention of Illegal Discharges.** Illicit connections must be eliminated (even if the connection was established pursuant to a valid permit and was legal at the time it was constructed), and illegal discharge practices eliminated.
4. **Slopes.** Completed slopes that are more than five feet in height, more than two hundred fifty square feet in total area, and steeper than 3:1 (run-to-rise) that have been disturbed at any time by clearing, grading, or landscaping, shall be protected from erosion prior to the first rainy season following completion of the slope, and continuously thereafter.
5. **Storage of Materials and Wastes.** All materials and wastes with the potential to pollute urban runoff shall be stored in a manner that either prevents contact with rainfall and stormwater, or contains contaminated runoff for treatment and disposal.
6. **Use of Materials.** All materials with the potential to pollute urban runoff (including, but not limited to, cleaning and maintenance products used outdoors, fertilizers, pesticides and herbicides, etc.) shall be used in accordance with label directions. No such product may be disposed of or rinsed into receiving waters or the stormwater conveyance system.

C. **Inspection, Maintenance, Repair and Upgrading of BMPs.** BMPs at manned facilities must be inspected by the discharger before and following predicted rain events. BMPs at unmanned facilities must be inspected by the discharger at least once during the rainy season and at least once between each rainy season. These BMPs must be maintained so that they continue to function as designed. BMPs that fail must be repaired as soon as it is safe to do so. If the failure of a BMP indicates that the BMPs in use are inappropriate or inadequate to the circumstances, the BMPs must be modified or upgraded to prevent any further failure in the same or similar circumstances.

D. **Stormwater Pollution Prevention Plan.** An authorized enforcement official may require a commercial, industrial or land disturbance activity discharger to prepare and submit an SWPPP for approval by that official if: (1) the discharger does not come into compliance with this chapter after one or more warnings (or other enforcement action) that BMPs are inadequate or are not being adequately maintained; or (2) the facility or activity at issue is a significant source of contaminants to receiving waters despite compliance with this

chapter. Any discharger required to submit and to obtain approval of an SWPPP shall install, implement, and maintain the BMPs specified in the approved SWPPP.

The SWPPP shall identify the BMPs that will be used by the discharger to prevent or control pollution of stormwater to the MEP. If the facility is an industrial facility, the SWPPP submitted to the city shall at a minimum meet the requirements of the state NPDES general industrial stormwater permit. If the activity at issue is a construction or land disturbance activity, the SWPPP submitted to the city shall at a minimum meet the requirements of the state NPDES general construction stormwater permit. If a facility required to submit an SWPPP to the city discharges non-stormwater to groundwater, the facility shall obtain an RWQCB permit as required by the State Water Code, and shall describe the requirements of that permit in the SWPPP.

Whenever submission of an SWPPP is required pursuant to this chapter, an authorized enforcement official may take existing city BMPs into account when determining whether the practices proposed in the SWPPP are BMPs that will prevent or control pollution to the required level of MEP.

E. Notification of Spills, Releases and Illegal Discharges. Spills, releases, and illegal discharges of pollutants to receiving waters or to the stormwater conveyance system shall be reported by the discharger as required by all applicable state and federal laws. In addition, any such spills, releases and illegal discharges with the potential to endanger health, safety or the environment shall be reported to the Directors within twenty-four hours after discovery of the spill, release or discharge. If safe to do so, necessary actions shall be taken to contain and minimize the spill, release or illegal discharge.

F. Sampling, Testing, Monitoring and Reporting. Commercial, industrial or land disturbance activity dischargers shall perform the sampling, testing, monitoring and reporting required by this chapter. In addition, an authorized enforcement official may order a discharger to conduct testing or monitoring and to report the results to the city if: (1) the authorized enforcement official determines that testing or monitoring is needed to determine whether BMPs are effectively preventing or reducing pollution in stormwater to the MEP, or to determine whether the facility is a significant source of contaminants to receiving waters; or (2) the authorized enforcement official determines that testing or monitoring is needed to assess the impacts of an illegal discharge on health, safety or the environment; or (3) an illegal discharge has not been eliminated after written notice by an authorized enforcement official; or (4) repeated violations have been documented by written notices from authorized enforcement officials; or (5) the RWQCB requires the city to provide any information related to the discharger's activities.

Testing and monitoring ordered pursuant to this subsection may include the following:

1. Visual monitoring of dry weather flows, wet weather erosion, and/or BMPs;
2. Visual monitoring of premises for spills or discharges;
3. Laboratory analyses of stormwater or non-stormwater discharges for pollutants;
4. Background or baseline monitoring or analysis; and
5. Monitoring of receiving waters or sediments that may be affected by pollutant discharges by the discharger (or by a group of dischargers including the discharger).

The authorized enforcement official may direct the manner in which the results of required testing and monitoring are reported, and may determine when required sampling, testing or monitoring may be discontinued.

G. Mitigation. All illegal discharges must be mitigated within a reasonable period of time to correct or compensate for all damage to the environment caused by the illegal discharge. The authorized enforcement official shall determine whether mitigation measures proposed or completed by the discharger meet this standard. The authorized enforcement official shall require the discharger to submit a mitigation plan and schedule by a specified date prior to taking action, and to submit a summary of completed mitigation by a specified date. Notwithstanding the granting of any period of time to the discharger to correct the damage, the

discharger shall remain liable for some or all of any fines or penalties imposed pursuant to this chapter, or by the RWQCB. (Ord. 369 § 1, 2008)

Lemon Grove Municipal Code							
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<a href="#">Title 18 CITYWIDE REGULATIONS</a>							
<a href="#">Chapter 18.08 EXCAVATION AND GRADING</a>							
<a href="#">Article II. Permits and Fees</a>							

**18.08.170 Erosion control required.**

A. Plans for an erosion control system shall be prepared and submitted for the review and approval of the city engineer as a part of any application for a construction permit. The erosion control system shall comply with the requirements of the latest national pollutant discharge elimination system permit, Chapters 8.48 and this chapter to satisfy the requirements for erosion control and eliminate the discharge of sediment and pollutants. The erosion control plan shall include, but not be limited to, the following information:

1. Name, address, and a twenty-four hour phone number of the owner or responsible party, and the person or contractor responsible for installing and maintaining the erosion control system and performing emergency erosion control work;
2. The name, address and signature of the civil engineer or person who prepared the plan;
3. All desilting basins, debris basins, silt traps, and other desilting, velocity retarding and protection facilities necessary to adequately protect the site and downstream properties from erosion and its effects, preserve natural hydrologic features, and preserve riparian buffers and corridors;
4. The streets, easements, drains, and other improvements;
5. The location and placement of gravel bags, diverters, check dams, slope planting, drains, and other erosion controlling devices and measures;
6. Access routes to all such erosion control facilities and how access shall be maintained during inclement weather.

B. Erosion control system standards shall be as follows:

1. The faces of cut-and-fill slopes and the project site shall be prepared and maintained to control against erosion. Where cut slopes are not subject to erosion due to the erosion-resistant character of the materials, such protection may be omitted upon approval of the city engineer.
2. Where necessary, temporary and/or permanent erosion control devices such as desilting basins, check dams, cribbing, riprap, or other devices or methods as approved by the city engineer, shall be employed to control erosion, prevent discharge of sediment, and provide safety.
3. Temporary desilting basins constructed of compacted earth shall be compacted to a relative compaction of ninety percent of maximum density. A gravel bag or plastic spillway must be installed for overflow, as designed by the engineer of work, to avoid failure of the earthen dam. A soils engineering report prepared by the soils engineer, including the type of field-testing performed, location and results of testing shall be submitted to the city engineer for approval upon completion of the desilting basins.
4. Desilting facilities shall be provided at drainage outlets from the graded site, and shall be designed to provide a desilting capacity capable of containing the anticipated runoff for a period of time adequate to allow reasonable settlement of suspended particles.
5. Desilting basins shall be constructed around the perimeter of projects, whenever feasible, and shall provide improved maintenance access from paved roads during wet weather. Grading cost estimates must include maintenance and ultimate removal costs for temporary desilting basins.
6. The erosion control provisions shall take into account drainage patterns during the current and future phases of grading.

7. All removable protective devices shown shall be in place at the end of each working day when there is a fifty percent chance of rain within a forty-eight hour period. If the developer does not provide the required installation or maintenance of erosion control structures within two hours of notification at the twenty-four hour number on the plans, the city engineer may order city crews to do the work or may issue contracts for such work and charge the cost of this work along with reasonable overhead charges to the cash deposits or other instruments implemented for this work without further notification to the owner. No additional work on the project except erosion control work may be performed until the full amount drawn from the deposit is restored by the developer.

8. At any time of year, an inactive site shall be fully protected from erosion and discharges of sediment. Flat areas with less than five percent grade shall be fully covered unless sediment control is provided through desiltation basins at all project discharge points. A site is considered inactive if construction activities have ceased for a period of ten or more consecutive days.

C. No grading work shall be allowed between October 1st and the following April 30th on any site when the city engineer determines that erosion, mudflow or sediment or silt discharge may adversely affect downstream properties, drainage courses, storm drains, streets, easements, or public or private facilities or improvements unless an approved erosion control system has been implemented on the site. If the city determines that it is necessary for the city to cause erosion control measures to be installed or cleanup to be done, the developer shall pay all of the city's direct and indirect costs including extra inspection, supervision, and reasonable overhead charges. (Ord. 371 § 1, 2008)



Lemon Grove Municipal Code							
<a href="#">Up</a>	<a href="#">Previous</a>	<a href="#">Next</a>	<a href="#">Main</a>		<a href="#">Search</a>	<a href="#">Print</a>	<a href="#">No Frames</a>
<a href="#">Title 18 CITYWIDE REGULATIONS</a>							
<a href="#">Chapter 18.08 EXCAVATION AND GRADING</a>							
<a href="#">Article II. Permits and Fees</a>							

**18.08.180 BMP maintenance.**

All BMPs for erosion prevention and sediment control shall be functional at all time. Prior to the rainy season and after each major storm, all source control and structural treatment BMPs shall be inspected to assure the functionality. BMP maintenance shall be conducted throughout the life of the project. (Ord. 371 § 1, 2008)

Lemon Grove Municipal Code							
<a href="#">Up</a>	<a href="#">Previous</a>	<a href="#">Next</a>	<a href="#">Main</a>		<a href="#">Search</a>	<a href="#">Print</a>	<a href="#">No Frames</a>
<a href="#">Title 18 CITYWIDE REGULATIONS</a>							
<a href="#">Chapter 18.08 EXCAVATION AND GRADING</a>							
<a href="#">Article V. Grading Operations</a>							

**18.08.560 Responsibility of permittee.**

It shall be the responsibility of the permittee to know the conditions and/or restrictions placed on the grading permit and as outlined in applicable sections of this chapter, and as continued on the approved report (s) and to insure that all contractors, subcontractors, employees, agents and consultants are also knowledgeable of the same, and insure that they carry out the proposed work in accordance with the approved plans and specifications and with the requirements of the permit and this chapter. The permittee shall also be responsible to maintain in an obvious and accessible location on the site, a copy of the permit and grading plans bearing the approval of the city engineer. (Ord. 371 § 1, 2008)



Date: 12/11/14 5:00 P.M. Project: Valencia

☐ Meeting ☐ Phone ☒ Site Visit

Attendees:

Leon + Gary

Notes:

Site inspection to review recommended "Construction BMP Recommendations" from 12/9/14 inspection (attached).

- ① No erosion control provided.
- ② Insufficient/Improperly installed check dams.
- ③ Repair + stabilization of gullies not completed.
- ④ Not completed.
- ⑤ Completed.
- ⑥ Not visible.
- ⑦ Mostly complete.
- ⑧ N/A



# National Weather Service Forecast Office

## San Diego, CA

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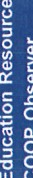
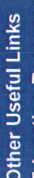
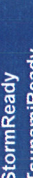
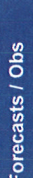
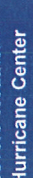
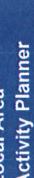
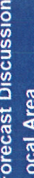







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Change Table Font Size Increase Decrease

### Forecast For Lat/Lon: 32.7370/-117.0200 (Elev. 492 ft)

Lemon Grove CA

Forecast Created at: 6pm PST Dec 11, 2014

Custom Weather Forecast Table

	Thu Dec 11	Fri Dec 12	Sat Dec 13	Sun Dec 14	Mon Dec 15	Tue Dec 16
<b>Weather</b>	Chance Rain	Slight Chance Rain Rain and Showers TStorms	Likely Rain Showers and TStorms	Chance Rain Rain and Showers TStorms	Chance Rain	Likely Rain
<b>Daily-Temp</b>	High 67 Low 53	High 63 Low 58	High 63 Low 51	High 65 Low 48	High 64 Low 50	High 64 Low 52
<b>Chance of Precip</b>	0% 0% 5% 45%	100% 90% 65% 75%	30% 15% 5% 5%	5% 5% 5% 5%	5% 40% 40% 55%	55% 60% 60% 40%
<b>Precip</b>	0.00" 0.00" 0.00" 0.01"	0.57" 0.29" 0.06" 0.12"	0.00" 0.00" 0.00" 0.00"	0.00" 0.00" 0.00" 0.00"		
<b>12-hr Snow Total</b>	0" 0" 0" 0"	0" 0" 0" 0"	0" 0" 0" 0"	0" 0" 0" 0"		
<b>FRET</b>	0.06"	0.06"	0.05"	0.06"	0.07"	0.07"
<b>6-Hour</b>	4am 10am 4pm 10pm	4am 10am 4pm 10pm	4am 10am 4pm 10pm	4am 10am 4pm 10pm	4am 10am 4pm 10pm	4am 10am 4pm 10pm
<b>Temp</b>	53 62 65 60	58 61 60 54	52 59 52 49	59 61 54 51	59 61 55 53	60 61 55 53
<b>Cloudiness</b>	86% 49% 75% 100%	100% 91% 84% 75%	69% 51% 30% 37%	31% 21% 30% 30%	41% 41% 62% 62%	90% 90% 87% 87%
<b>Dewpoint</b>	52 53 54 53	52 54 52 50	49 48 46 46	43 44 44 48	44 43 45 49	47 51 49 51
<b>Relative Humidity</b>	94% 73% 67% 78%	79% 77% 73% 88%	89% 69% 61% 81%	80% 57% 52% 81%	79% 57% 54% 81%	82% 72% 63% 88%
<b>Wind</b>	S S S S 2 7 8 10	SE W W 15 6 6 6	E W NW E 2 2 5 3	E N W E 3 1 5 5	E S SW SE 6 7 7 7	SE S S 8 9 7 6
<b>Snow Level (ft)</b>	9317 9161	7608 6313	5478 5212	5704	5850 5993 5805 5704	561

### Forecast Weather Table Interface

Enter a Location or Click on Map Below

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 Interval in Hours: ☐ 1 ☐ 3 ☐ 6

 Duration in Days: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7

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CITY OF LEMON GROVE  
3232 Main Street, Lemon Grove, CA 91945

## NPDES STORMWATER PROGRAM CONSTRUCTION STORMWATER COMPLIANCE INSPECTION FORM

Inspector Name /Signature/Date/Time: TAD NAKATANI / [Signature] / 12/11/14 9:00AM

Inspection: ☐ Permit-Required Inspection ☒ Follow-up Inspection ☐ Other (Explain) \_\_\_\_\_

Construction Project Priority: ☐ High ☒ Medium ☐ Low

### GENERAL INFORMATION

Grading or Building Permit #: Gr-1692

Project Name & Type: VALENCIA SUBDIVISION

Project Location & Address: SAN ALTOS PLACE

Contractor's Name & Telephone #: ANDERSON DEVELOPMENT (949) 275-6739

Property Owner & Telephone #: SAN ALTOS LLC

Is this Project Greater than an Acre? ☒ Yes ☐ No ☐ N/A

If yes: Provide Record of Waste Discharge Identification Number (WDID#): 937C369143

Does this Project have an NOI/SWPPP Available? ☒ Yes ☐ No ☐ N/A

Is Weather Triggered Action Plan Completed? ☐ Yes ☐ No ☒ N/A

Is Advanced Treatment Implemented Appropriately? ☐ Yes ☐ No ☒ N/A

Is More than 17 Acres of Cleared or Graded Areas Left Exposed at Any Given Time? ☐ Yes ☒ No ☐ N/A

Is 125% of Materials to Install Standby BMPs Available? ☐ Yes ☒ No ☐ N/A

Are Routine Self-Inspections Being Conducted by Developer/Owner? ☐ Yes ☐ No ☐ N/A

Project Site is in What Sub-Watershed: ☒ Chollas Creek 908.22 ☐ Sweetwater River 909.12

Nearest Conveyances or Water Bodies: \_\_\_\_\_

BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
<b>Soil Stabilization and Erosion Prevention</b>					
Preservation of existing vegetation?			<input checked="" type="checkbox"/>		
Physical Stabilization: Hydraulic Mulch, Hydroseeding, Soil Binders, Straw Mulch	<input checked="" type="checkbox"/>			Gruttes & unstabilized pads still not addressed	No
Geotextiles, Plastic Covers, Erosion Prevention Blankets, Wood Mulching	<input checked="" type="checkbox"/>			some plastic sheets added but not yet sufficient	No
Site Drainage: Outlet Protection/Slope Drain		<input checked="" type="checkbox"/>			
Inlet/Outlet Protection	<input checked="" type="checkbox"/>			see inlet protection comment below	No
<b>Sediment Control/Containment</b>					
Perimeter Protection: Silt Fencing, Gravel Bags, Fiber Rolls	<input checked="" type="checkbox"/>			Additional fiber rolls not placed on slopes yet	No
Storm Drain inlet protection: Sediment Trap, De-silting Basin, Gravel Bag Barrier	<input checked="" type="checkbox"/>			Per discussion w/contractor, they still need to add gravel bag inlet protection	No



BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
Tracking Controls: Stabilized Entrance/Exit Road Stabilization, Tire Wash, Street Sweeping	X			NE entrance still not stabilized but not currently in use	No
<b>Materials and Equipment Management</b>					
Are materials and wastes stored in a manner that minimizes or eliminates the potential to discharge these materials to the storm drain system, is secondary containment used?	X				Yes
Are material stockpiles protected: covered, contained and located away from non-storm water discharges?	X			still need to protect all stockpiles	No
Are heavy equipment and vehicles parked in designated areas with permeable surface?	X				Yes
Are appropriate spill response and containment measures kept on the site?	X				Yes
Are wastes managed and stored properly (Solid, liquid, sanitary, concrete, hazardous)?	X				Yes
Are concrete washouts properly installed, maintained with no evidence of discharges.	X				Yes
Is timely service and removal provided to prevent waste containers and sanitary facilities from overflowing?	X				Yes
<b>Non-Storm Water Management</b>					
Is the site free of evidence of illegal connections and/or illicit discharges?	X				Yes
<b>Discharge Locations</b>					
Are the discharge locations free of significant erosion or sediment transport?		X		still need to clean sediment on Akins	No
<b>Other</b>					
Are there any other potential storm water pollution issues/concerns?	X			Regrading stabilization still needed	No
Was there any employee or subcontractor training on stormwater BMPs?			X		

#### VIOLATIONS

- ☐ No violations noted at time of inspection/investigation  
☒ No violations; however, recommended corrective actions required  
☒ Inspection Form as Correct Work Notice ☐ Correct Work Notice Issued on: \_\_\_\_\_  
☐ Violation: Illegal Discharge/Illegal Connection/Improper BMPs Implementation  
☐ Stop Work Notice Issued on: \_\_\_\_\_

#### RECOMMENDED CORRECTIVE ACTION

FLOW ALONG SOUTHERN EDGE OF SITE HAS BEEN REDIRECTED AWAY FROM THE CORNER. ALL OTHER CORRECTIVE ACTIONS FROM THE 12/9/14 INSPECTION HAVE NOT YET BEEN ADDRESSED. REFER TO THAT INSPECTION FOR FULL DESCRIPTION OF CORRECTIVE ACTIONS.





CITY OF LEMON GROVE  
3232 Main Street, Lemon Grove, CA 91945

## NPDES STORMWATER PROGRAM CONSTRUCTION STORMWATER COMPLIANCE INSPECTION FORM

Inspector Name /Signature/Date/Time: TAD NAKATANI 12/9/14 1:00pm

Inspection: ☒ Permit-Required Inspection ☐ Follow-up Inspection ☐ Other (Explain) \_\_\_\_\_

Construction Project Priority: ☒ High ☒ Medium ☐ Low

### GENERAL INFORMATION

Grading or Building Permit #: Gr 1692

Project Name & Type: VALENCIA SUBDIVISION

Project Location & Address: SAN ALTOS PLACE

Contractor's Name & Telephone #: ANDERSON DEVELOPMENT (949) 275-6739

Property Owner & Telephone #: SAN ALTOS LLC

Is this Project Greater than an Acre? ☒ Yes ☐ No ☐ N/A

If yes: Provide Record of Waste Discharge Identification Number (WDID#): 937C369143

Does this Project have an NOI/SWPPP Available? ☒ Yes ☐ No ☐ N/A

Is Weather Triggered Action Plan Completed? ☐ Yes ☐ No ☒ N/A

Is Advanced Treatment Implemented Appropriately? ☐ Yes ☐ No ☒ N/A

Is More than 17 Acres of Cleared or Graded Areas Left Exposed at Any Given Time? ☐ Yes ☐ No ☐ N/A

Is 125% of Materials to Install Standby BMPs Available? ☐ Yes ☒ No ☐ N/A

Are Routine Self-Inspections Being Conducted by Developer/Owner? ☐ Yes ☐ No ☐ N/A

Project Site is in What Sub-Watershed: ☒ Chollas Creek 908.22 ☐ Sweetwater River 909.12

Nearest Conveyances or Water Bodies: \_\_\_\_\_

BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
<b>Soil Stabilization and Erosion Prevention</b>					
Preservation of existing vegetation?			<input checked="" type="checkbox"/>		
Physical Stabilization: Hydraulic Mulch, Hydroseeding, Soil Binders, Straw Mulch	<input checked="" type="checkbox"/>			Gullies through edges of hydroseeded areas. Some pots not seeded, northern road ending	No
Geotextiles, Plastic Covers, Erosion Prevention Blankets, Wood Mulching		<input checked="" type="checkbox"/>			
Site Drainage: Outlet Protection/Slope Drain		<input checked="" type="checkbox"/>			
Inlet/Outlet Protection		<input checked="" type="checkbox"/>			
<b>Sediment Control/Containment</b>					
Perimeter Protection: Silt Fencing, Gravel Bags, Fiber Rolls	<input checked="" type="checkbox"/>			Additional fiber rolls needed on western slope	No
Storm Drain inlet protection: Sediment Trap, De-silting Basin, Gravel Bag Barrier		<input checked="" type="checkbox"/>			



BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
Tracking Controls: Stabilized Entrance/Exit Road Stabilization, Tire Wash, Street Sweeping	X			NE entrance lacks stabilization	No
<b>Materials and Equipment Management</b>					
Are materials and wastes stored in a manner that minimizes or eliminates the potential to discharge these materials to the storm drain system, is secondary containment used?	X				Yes
Are material stockpiles protected: covered, contained and located away from non-storm water discharges?	X			Several <del>un</del> unprotected stockpiles	No
Are heavy equipment and vehicles parked in designated areas with permeable surface?	X				Yes
Are appropriate spill response and containment measures kept on the site?	X				Yes
Are wastes managed and stored properly (Solid, liquid, sanitary, concrete, hazardous)	X				Yes
Are concrete washouts properly installed, maintained with no evidence of discharges.	X				Yes
Is timely service and removal provided to prevent waste containers and sanitary facilities from overflowing?	X				Yes
<b>Non-Storm Water Management</b>					
Is the site free of evidence of illegal connections and/or illicit discharges?	X				Yes
<b>Discharge Locations</b>					
Are the discharge locations free of significant erosion or sediment transport?		X		Large amount of sediment on roadway SE of site	No
<b>Other</b>					
Are there any other potential storm water pollution issues/concerns?	X			Roadways within project are unstabilized and show signs of erosion	No
Was there any employee or subcontractor training on stormwater BMPs?			X		

### VIOLATIONS

- ☐ No violations noted at time of inspection/investigation  
☒ No violations; however, recommended corrective actions required  
☒ Inspection Form as Correct Work Notice ☐ Correct Work Notice Issued on: \_\_\_\_\_  
☐ Violation: Illegal Discharge/Illegal Connection/Improper BMPs Implementation  
☐ Stop Work Notice Issued on: \_\_\_\_\_

### RECOMMENDED CORRECTIVE ACTION

- Add erosion controls to all <sup>disturbed</sup> areas inactive for 10 days, including roadways not currently in use.
- Cover & protect stockpiles
- Repair/protect gullies that have formed on slopes
- Redirect flow near southeast corner so it does not flow toward damaged wall
- Sweep road outside of construction entrance
- Install check dams of stabilization on roadways prior to rain

### Construction BMP Recommendations

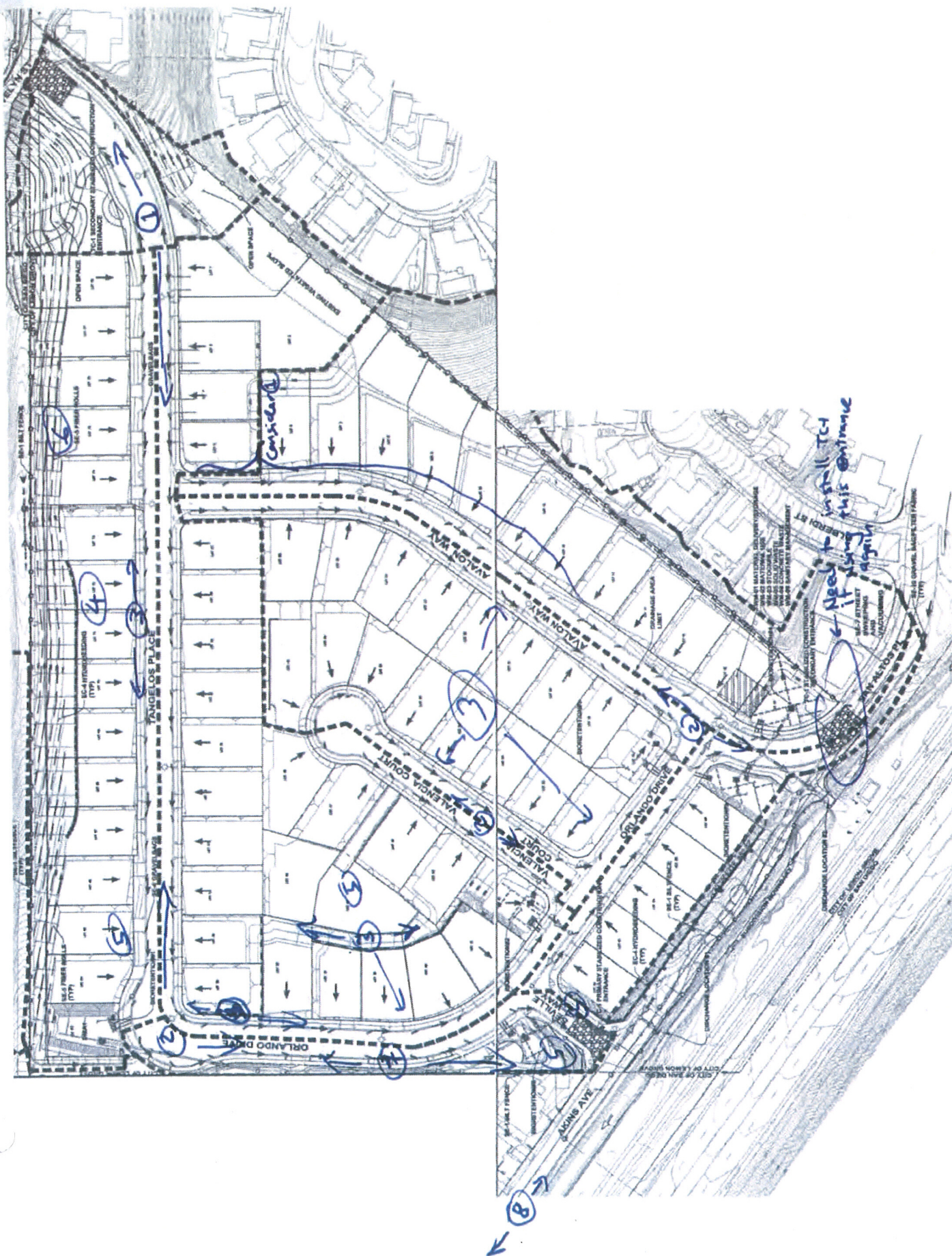
Site: VALENCIA SUBDIVISION

Date: 12/9/14

#### Recommendations:

- ① • Add erosion control to road segment (ag northern corner) that are not in use. Can be hydroseeded or stabilized with gravel.
- ② • For roads that are in use, add check dams prior to rain. Ensure proper installation to prevent rills from forming underneath BMP if using fiber rolls
- ③ • Repair <sup>stabilize</sup> gullies in slopes on edges of pads. May consider using erosion control blankets.
- ④ • A couple pads on western side do not appear hydroseeded. Add hydroseed or other erosion control
- ⑤ • Cover & protect stockpiles. Some stockpiles near entrance are only partially covered. Others to the west are completely uncovered
- ⑥ • Ensure that enough BMP materials are kept on site. Not enough fiber rolls were on site
- ⑦ • Redirect flow along the southern side of site. It currently is causing erosion along the road and directs flow to a damaged wall. Direct away from wall and break up flow with check dams to prevent erosion
- ⑧ • Sweep road to remove sediment







**D-MAX Engineering, Inc.**

Consultants in Water & Environmental Sciences



**Memo**

**Date:** December 31, 2014

**To:** Leon Firsht, Malik Tamimi

**Cc:** Tad Nakatani

**From:** John Quenzer

*JK*

**Subject:** December 31, 2014 Field Visit at Valencia Construction Site

D-MAX visited the Valencia construction site on the morning of December 31, 2014, following a storm earlier the previous night. Rain had ended a few hours prior to the site visit, and no runoff was observed flowing out from the construction site at the time of the site visit.

Ponded water was observed at the Akins Avenue entrance/exit location and behind several sets of gravel bags installed along Akins Avenue. Samples were collected from the ponded water at the Akins Avenue entrance/exit (Photo 1) and from ponded water behind the first set of gravel bags downstream of the Akins Avenue exit/entrance (Photos 2 and 3). Turbidity was measured at 250 NTU in the first sample (Akins entrance/exit), and 235 NTU in the second sample (first set of gravel bags along Akins).

Some sediment had settled out at the bottom of the pools of water in both of the locations at which samples were collected, and care was taken not to disturb the settled sediment when samples were taken. Note that because water had been pooled and sediment had settled out over time, the **turbidity results as given above are likely lower than the turbidity of the discharge** that had occurred earlier when it was raining. To approximate that effect, the settled sediment at the Akins entrance/exit location was disturbed, and a sample was taken a few minutes later. The turbidity of that sample was 998 NTU.

Observations farther downstream along the curb indicated that in some places sediment had been conveyed around gravel bag installations. Photo 4 gives an example of this. Sediment accumulation was also noted along Akins Avenue, close to the storm drain inlet.





Figure 1. Map of Site and Immediate Vicinity



Photo 1. Ponded Water at Akims Avenue Entrance/Exit





Photos 2 & 3. Ponded Water at First Set of Gravel Bags Downstream of Akins Avenue Entrance/Exit (Looking downstream and upstream, respectively)



Photo 4. Evidence of Discharge Carrying Sediment around Gravel Bags along Akins Avenue





Photo 5. Sediment Accumulation along Akins Avenue, Close to Inlet





CITY OF LEMON GROVE  
3232 Main Street, Lemon Grove, CA 91945

## NPDES STORMWATER PROGRAM CONSTRUCTION STORMWATER COMPLIANCE INSPECTION FORM

Inspector Name /Signature/Date/Time: TAD NAKATANI TNA 3/18/15 7:30AM

Inspection: ☒ Permit-Required Inspection ☐ Follow-up Inspection ☐ Other (Explain) \_\_\_\_\_

Construction Project Priority: ☐ High ☒ Medium ☐ Low

### GENERAL INFORMATION

Grading or Building Permit #: GR-1692

Project Name & Type: VALENCIA SUBDIVISION

Project Location & Address: SAN ALTOS PL

Contractor's Name & Telephone #: ANDERSON DEVELOPMENT (949) 275-6737

Property Owner & Telephone #: SAN ALTOS LLC

Is this Project Greater than an Acre? ☒ Yes ☐ No ☐ N/A

If yes: Provide Record of Waste Discharge Identification Number (WDID#): 937C369143

Does this Project have an NOI/SWPPP Available? ☒ Yes ☐ No ☐ N/A

Is Weather Triggered Action Plan Completed? ☐ Yes ☐ No ☒ N/A

Is Advanced Treatment Implemented Appropriately? ☐ Yes ☐ No ☒ N/A

Is More than 17 Acres of Cleared or Graded Areas Left Exposed at Any Given Time? ☐ Yes ☒ No ☐ N/A

Is 125% of Materials to Install Standby BMPs Available? ☐ Yes ☒ No ☐ N/A

Are Routine Self-Inspections Being Conducted by Developer/Owner? ☒ Yes ☐ No ☐ N/A

Project Site is in What Sub-Watershed: ☒ Chollas Creek 908.22 ☐ Sweetwater River 909.12

Nearest Conveyances or Water Bodies: ENCANTO CHANNEL TO CHOLLAS CREEK

BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
<b>Soil Stabilization and Erosion Prevention</b>					
Preservation of existing vegetation?			X		
Physical Stabilization: Hydraulic Mulch, Hydroseeding, Soil Binders, Straw Mulch	X			several slopes & inactive areas lack erosion control	No
Geotextiles, Plastic Covers, Erosion Prevention Blankets, Wood Mulching	X			covers not in place on all sidewalls and at basin inlets	No
Site Drainage: Outlet Protection/Slope Drain		X			
Inlet/Outlet Protection		X			
<b>Sediment Control/Containment</b>					
Perimeter Protection: Silt Fencing, Gravel Bags, Fiber Rolls	X			Inadequate perimeter controls at NW & SE corners silt fences not installed on western slope	No
Storm Drain inlet protection: Sediment Trap, De-silting Basin, Gravel Bag Barrier	X			Drain on Avalon lacks protection	No



BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
Tracking Controls: Stabilized Entrance/Exit Road Stabilization, Tire Wash, Street Sweeping	X			Multiple entrances need replacement/repair of TC-1. Driveways lack adequate tracking controls per plans sediment on roadways	No
<b>Materials and Equipment Management</b>					
Are materials and wastes stored in a manner that minimizes or eliminates the potential to discharge these materials to the storm drain system, is secondary containment used?	X			some liquids stored without secondary containment	No
Are material stockpiles protected: covered, contained and located away from non-storm water discharges?	X			Numerous uncovered stockpiles but no indication that they are inactive	Yes
Are heavy equipment and vehicles parked in designated areas with permeable surface?	X				Yes
Are appropriate spill response and containment measures kept on the site?	X			some vehicles lack drip pans	No
Are wastes managed and stored properly (Solid, liquid, sanitary, concrete, hazardous)	X				Yes
Are concrete washouts properly installed, maintained with no evidence of discharges.	X			concrete waste observed on ground outside of washouts	No
Is timely service and removal provided to prevent waste containers and sanitary facilities from overflowing?	X				Yes
<b>Non-Storm Water Management</b>					
Is the site free of evidence of illegal connections and/or illicit discharges?	X				Yes
<b>Discharge Locations</b>					
Are the discharge locations free of significant erosion or sediment transport?	X				Yes
<b>Other</b>					
Are there any other potential storm water pollution issues/concerns?		X			
Was there any employee or subcontractor training on stormwater BMPs?		X	X	not discussed	

#### VIOLATIONS

- ☐ No violations noted at time of inspection/investigation  
☒ No violations; however, recommended corrective actions required  
☒ Inspection Form as Correct Work Notice ☐ Correct Work Notice Issued on: \_\_\_\_\_  
☐ Violation: Illegal Discharge/Illegal Connection/Improper BMPs Implementation  
☐ Stop Work Notice Issued on: \_\_\_\_\_

#### RECOMMENDED CORRECTIVE ACTION

SEE NEXT PAGE FOR RECOMMENDATIONS

### Construction BMP Recommendations

Site: VALENCIA

Date: 3/18/15

#### Recommendations:

- ① IMPLEMENT ADEQUATE EROSION CONTROLS ON SLOPES & SIDEWALLS
- ② CLEAN UP CONCRETE WASTE OBSERVED AT MULTIPLE LOCATIONS  
AND ENSURE THAT ALL EMPLOYEES USE WASHOUTS PROPERLY
- ③ IMPLEMENT ADEQUATE TRACKING CONTROLS IN DRIVEWAY  
TRANSITIONS FROM PAVEMENT TO EXPOSED LOTS
- ④ PROTECT INLET AND SURROUNDING AREA OF EXPOSED SOIL
- ⑤ SWEEP/CLEAN SEDIMENT FROM ROADWAY
- ⑥ IMPLEMENT ADEQUATE EROSION CONTROLS ON EXPOSED INACTIVE AREAS
- ⑦ PROVIDE STABILIZATION AT INLETS TO BASINS
- ⑧ REPLACE/REFRESH STABILIZED CONSTRUCTION ENTRANCE
- ⑨ IMPLEMENT ADEQUATE PERIMETER CONTROL BMPs
- ⑩ ENSURE THAT DRIP PANS ARE PLACED UNDER VEHICLES  
WHEN NOT IN USE
- ⑪ PROVIDE SECONDARY CONTAINMENT FOR LIQUID STORAGE

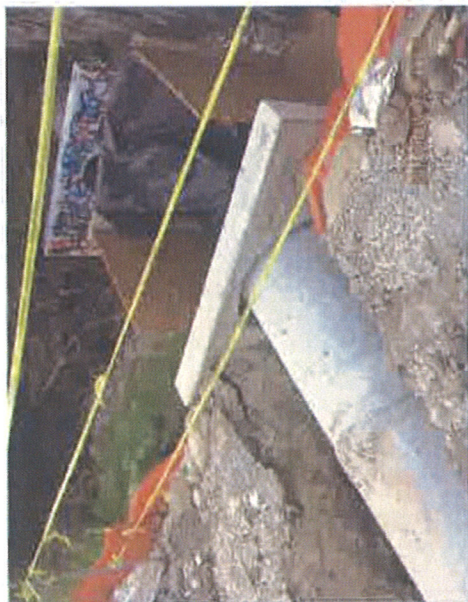


3/16/15

①



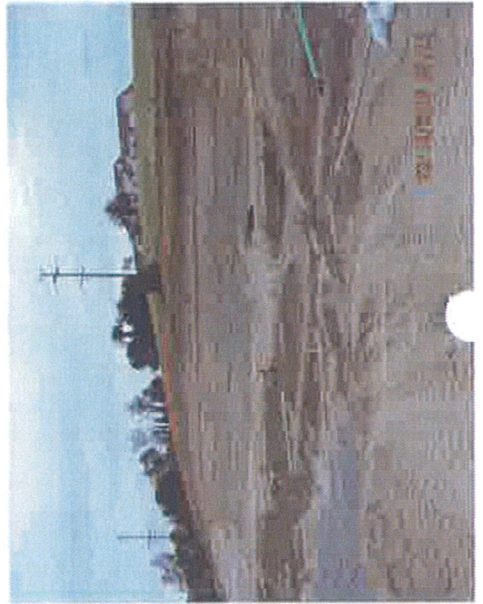
















Failure to cover and provide secondary containment.





Exhibit No. 14

# CITY OF LEMON GROVE ADMINISTRATIVE CITATION

## A) TYPE OF VIOLATION

Circle One:      Warning      1<sup>st</sup> Citation \$100      2<sup>nd</sup> Citation \$200      3<sup>rd</sup> Citation \$500      4<sup>th</sup> Citation \$1,000

Payment of \$ 500 is due no later than 4/19/15 to the City of Lemon Grove.  
The City accepts cash, check or credit card.

If the violation is not corrected by the date specified therein and/or payment is not received by the date above, the next level of citation may be issued, other enforcement actions may occur, and penalties may be assessed (25% and interest at the rate of 10% per month). Payment of fine does not excuse or discharge the failure to correct violation identified below.

## B) RESPONSIBLE PARTY INFORMATION

Person Cited: Anderson Tim  
(Last Name) (First Name)

Circle One:      Property Owner      Tenant      Business Owner      Other      Project Manager

Mailing Address: 3194-C2 Airport Loop Road, Costa Mesa, CA 92626

Business Name (if applicable): BCA Development      CC: Phil Dowley, Code Enforcement File

## C) VIOLATION(S) INFORMATION

Date (Violation Observed): 3/18/15      Time (Violation Observed): 7:30 AM

Location of Violation: 1350 San Altos Place / Valencia  
(Street Address) (APN)

Violation(s) Observed (Code Section and Description):

8.48.060, 18.08.170, 18.08.180, 18.08.560

Concrete discharge to ground.

Follow up inspection re: 3/18/15

See attached report dated 3/5/15 (Tad Nakatani)

## D) CORRECTION(S) REQUIRED (with date to complete corrections)

Install BMP's per Recommendations and Permit

Correct by 3/23/15 5 P.M.

## E) SERVICING CITATION INFORMATION

Enforcing Officer Name      Phone No.  
Leon Firsht      619-825-3825

Signature

Date

3/19/15

Person Cited – Signature Acknowledging Receipt

(Date)

Citation Served (circle one):      In Person      By Mail / Email      n Property

This citation may be appealed within thirty (30) days from date of correction identified in Section D. To request an appeal, a Request an Appeal Hearing form (available at City Hall) should be completed and returned to City Hall. In the event a Hardship Waiver is requested, the Request for an Appeal Hearing and Hardship Waiver forms are required within fifteen (15) days from the correction date identified in Section D.

WHITE ORIGINAL

PINK COPY

CITATION CARD-OWNER









03/18/2015 06:46





Exhibit No. 15

# NOTICE

DATE: 3/24/15  
PROJECT: VALCUEIA  
PROJECT #: GR-1692  
ADDRESS: SAN ANTONIO

## ☐ STOP WORK

Stop all other work until erosion control/NPDES deficiencies noted below are corrected. Issuance of this Stop Work Notice will notify the Regional Water Quality Control Board regarding your BMP deficiencies. This may subject you to fines of up to \$10,000/day.

## ☒ CORRECT WORK

Correct noted deficiencies within the specified time frame to avoid a Stop Work Notice:

☐ 24 Hours ☒ 72 Hours ☐ 5 Days ☐ Prior to October 1<sup>st</sup>, And/Or ☐ Before Rain Event

### THIS PROJECT IS IN CONFLICT WITH THE FOLLOWING:

☒ City of Lemon Grove Grading Ordinance\* ☒ City of Lemon Grove JURMP  
☒ Other: PROJECT PLANS, SHEETS 11A, 12, 13,

### THE AREAS OF CONFLICT ARE:

☐ Erosion control is not on site ☒ Erosion control is not per the approved plan  
☒ Erosion control is inadequate ☐ Failure to maintain erosion/sediment control device  
☐ Other \_\_\_\_\_

### THE FOLLOWING DEFICIENCIES ARE NOTED:

☒ Stabilized construction entrance ☐ Runoff from the site ☐ Desilting basin  
☒ Perimeter protection at toe of slope ☒ Waste/materials storage  
☐ Concrete washout inadequate, not maintained ☐ No secondary containment  
☐ Cover stockpiles ☐ No storm drain inlet/outlet protection ☐ Trash/debris not managed  
☐ Cover on sloped and/or flat areas that are inactive for more than 10 days  
☐ Other \_\_\_\_\_

\*\*\*STOP/ CORRECT WORK ADEQUATELY ADDRESSED (DATE/SIGNATURE) \_\_\_\_\_

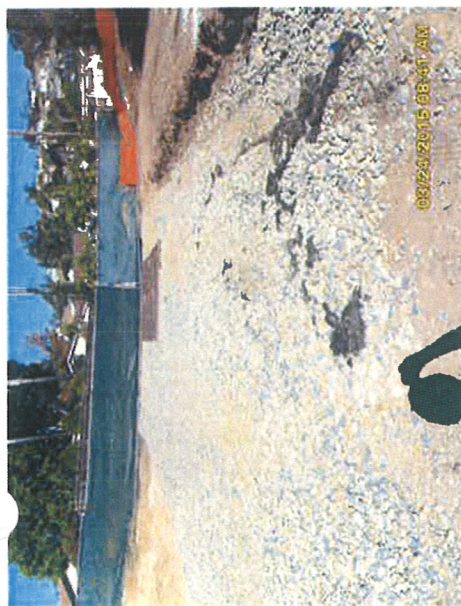
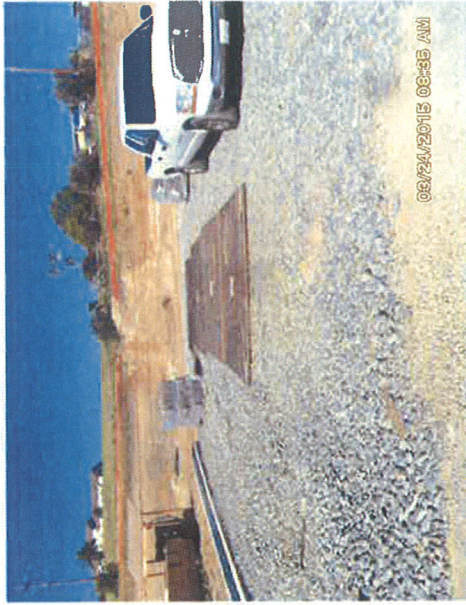
CC: ☒ City Engineer  
☒ Engineering  
☐ Management Analyst  
☐ Code Compliance  
☐ Building  
☐ RWQCB

ISSUED TO: Tim Anderson via Email  
DATE/TIME: 3/24/15 3:30 PM  
BY: Gary Harper  
TITLE: Eng. Inspector  
PHONE: (619) 454-1272

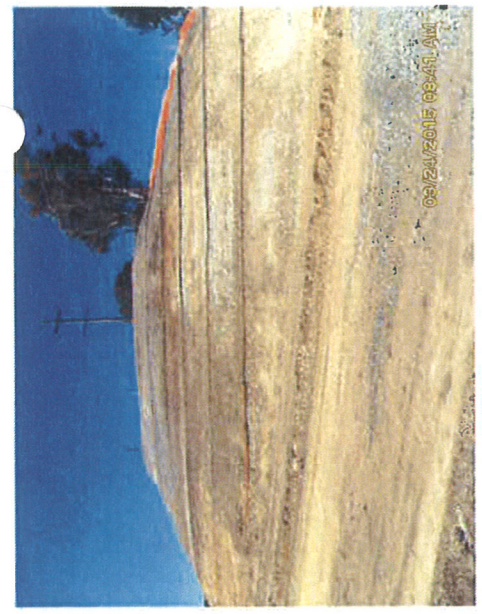
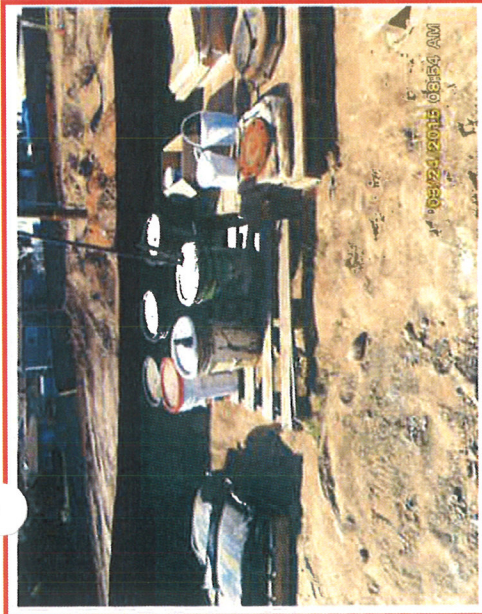
IF YOU HAVE FURTHER QUESTIONS, PLEASE  
CALL THE CITY OF LEMON GROVE'S  
DEVELOPMENT SERVICES DEPARTMENT AT  
(619) 825-3805.

\* Having deficiencies in your erosion control is a violation of the City of Lemon Grove's Grading Ordinance. A violation of the City's Grading Ordinance is a misdemeanor. Each separate day or portion thereof on which a violation exists or is allowed to exist shall constitute a separate offense punishable by the provisions of the Ordinance.

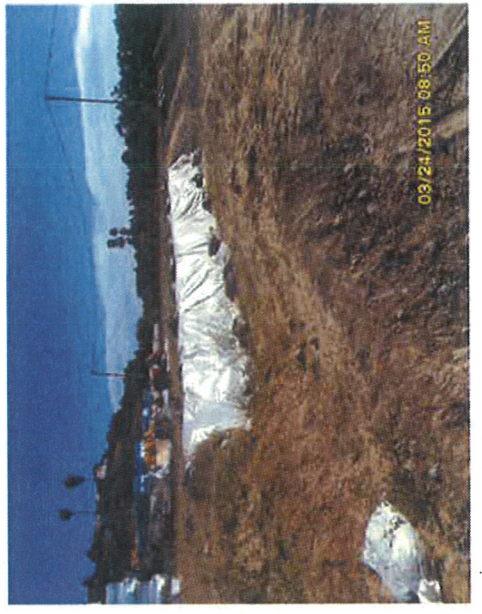
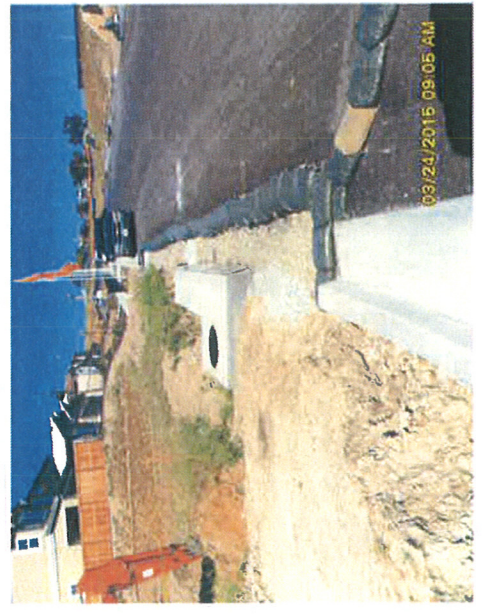




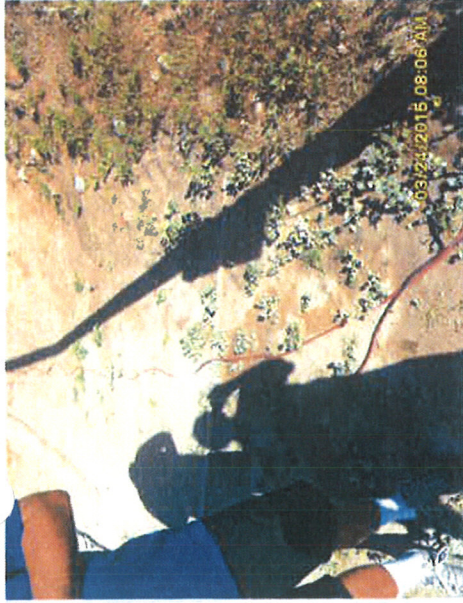
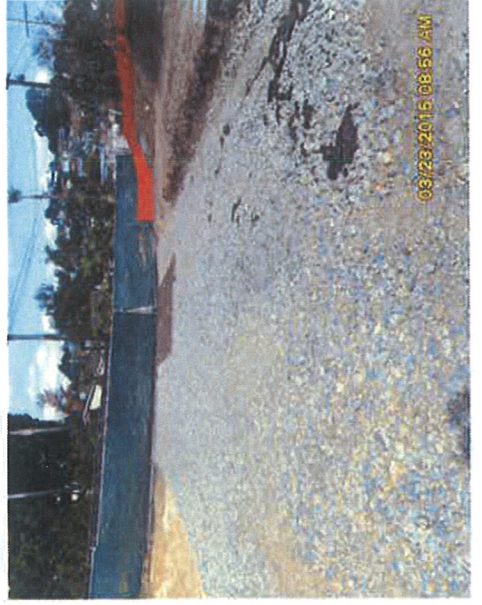




Failure to cover and provide secondary containment.



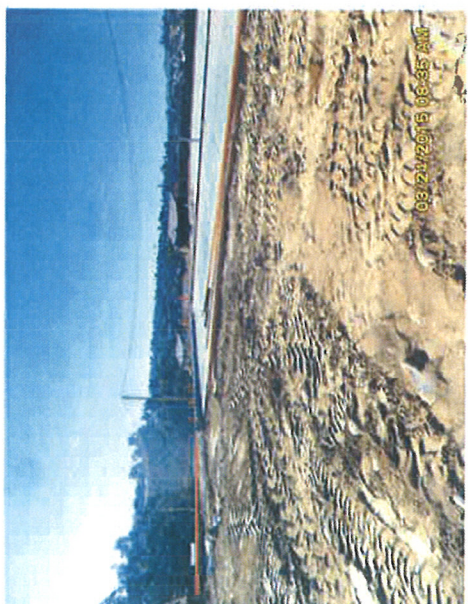
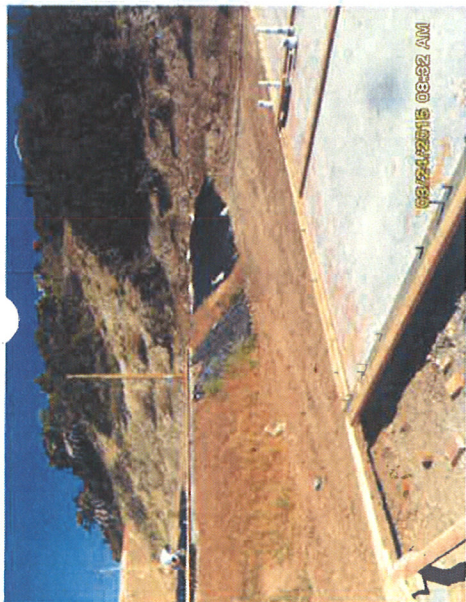






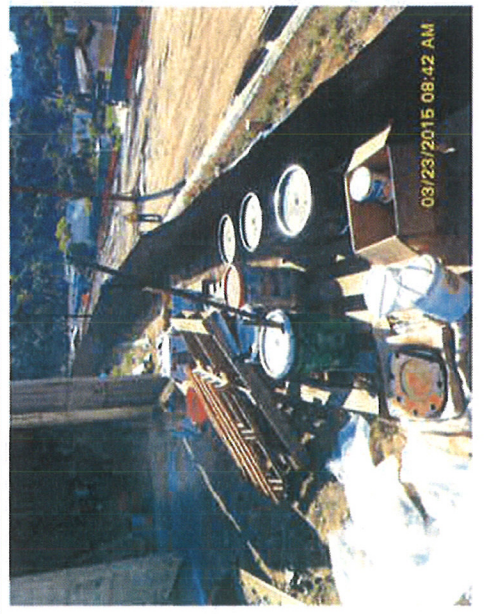








Lack of erosion controls in active areas.



# INSPECTOR'S REPORT



**CITY OF LEMON GROVE**  
**Engineering Department**  
 3232 Main Street  
 Lemon Grove, CA 91945  
 619-825-3810

		Date: 3/24/15	Hours: 2.5
Project: Valencia		Project No.: GR-1692	
Developer: BCA		Inspector: Harper	Contract Day:
Location: San Altos		Weather: Clear/Warm	
<b>MANPOWER AND EQUIPMENT</b>			
Grading Contractor:	Underground Contractor:	Other Contractors:	
Cal West: Stormwater	Koloa & Ortega	New Point Homes (Kirk), Anderson Development (Tim)	
Equipment:	Equipment:	Equipment:	
Remarks:		Developer's Supervisor Onsite: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
<p>Follow up to Tad's inspection 3/18/15 and citations issued by the City to Anderson Development last week and items to be corrected yesterday by 5pm.</p> <p>Attached "Construction BMP Recommendations" noted:</p> <ol style="list-style-type: none"> <li>1. Erosion control on slopes and sidewalks: although crews are addressing items, some are not complete, such as western slope, northwest shear cut, west sidewalk areas of Orlando and Valencia Ct.</li> <li>2. Concrete waste: crew did clean concrete waste, although another spill occurred at lot 23 that was not cleaned up.</li> <li>3. Tracking controls at lot driveways: most have been destroyed by vehicles. Tim and Kirk asked a couple weeks ago if they could substitute shaker plates for the rock detail, sheet 11A. Responded that they needed to submit plan to engineering.</li> <li>4. Inlet protection: 1 inlet has protection while the inlet at Avalon does not.</li> <li>5. Street sweeping: streets are fairly clean and Kirk advised that streets are swept every Saturday.</li> <li>6. Erosion control on exposed inactive areas: as in #1, exposed areas along Orlando and Valencia Ct. needs protection. Some other areas that seemed inactive last week are now active. The site changes almost daily as there is a large number of grading equipment and workers onsite.</li> <li>7. Provide stabilization at inlets to basins: see #4.</li> <li>8. Stabilized construction entrance: southwest 69<sup>th</sup>/Broadway has no TC-1, northwest 69<sup>th</sup> TC-1 needs to be cleaned of debris, TC-1 at Avalon/Tangelos Pl. looks acceptable.</li> <li>9. Perimeter control: Crews are repairing/replacing silt fence and fiber rolls, although not complete.</li> <li>10. Drip pans: most vehicles have drip pans, however one piece of equipment parked at 69<sup>th</sup> st. TC-1 did not.</li> <li>11. Secondary containment: stack of 5 gallon drums of asphaltic material is still exposed at southwest area. New placement of two 55 gallon drums of diesel fuel with pump at Avalon/Tangelos Pl. needs to have secondary containment.</li> </ol> <p>Because of concrete spill that wasn't cleaned up at lot 23, citation to be issued.</p> <p>Because items addressed in 2<sup>nd</sup> citation were not addressed by due date of last night, but crews are actively mitigating, correct work to be issued.</p>			



Exhibit No. 16

## CITY OF LEMON GROVE ADMINISTRATIVE CITATION

### A) TYPE OF VIOLATION

Circle One:      Warning      1<sup>st</sup> Citation \$100      2<sup>nd</sup> Citation \$200      3<sup>rd</sup> Citation \$500      4<sup>th</sup> Citation \$1,000

Payment of \$ 1,000 is due no later than 4/25/15 to the City of Lemon Grove.  
The City accepts cash, check or credit card.

If the violation is not corrected by the date specified therein and/or payment is not received by the date above, the next level of citation may be issued, other enforcement actions may occur, and penalties may be assessed (25% and interest at the rate of 10% per month). Payment of fine does not excuse or discharge the failure to correct violation identified below.

### B) RESPONSIBLE PARTY INFORMATION

Person Cited: Anderson Tim  
(Last Name) (First Name)

Circle One:      Property Owner      Tenant      Business Owner      Other      Project Manager

Mailing Address: 3194-C2 Airport Loop Road, Costa Mesa, CA 92626

Business Name (if applicable): BCA Development      CC: Phil Dowley, Code Enforcement File

### C) VIOLATION(S) INFORMATION

Date (Violation Observed): 3/24/15      Time (Violation Observed): 8:31 AM

Location of Violation: 1350 San Altos Place / Valencia  
(Street Address) (APN)

Violation(s) Observed (Code Section and Description):  
8.48.040

Illegal Discharges of cementious material - Lot 23:  
See photos.

### D) CORRECTION(S) REQUIRED (with date to complete corrections)

Clean up cementious material immediately. Verbal direction given 3/24/15.

### E) SERVICING CITATION INFORMATION

Enforcing Officer Name      Phone No      Signature      Date  
Tamara O'Neal      619-825-3821

Person Cited - Signature Acknowledging Receipt \_\_\_\_\_ (Date)

Citation Served (circle one):      In Person      By Mail / Email      n Property

This citation may be appealed within thirty (30) days from date of correction identified in Section D. To request an appeal, a Request an Appeal Hearing form (available at City Hall) should be completed and returned to City Hall. In the event a Hardship Waiver is requested, the Request for an Appeal Hearing and Hardship Waiver forms are required within fifteen (15) days from the correction date identified in Section D.

WHITE ORIGINAL

PINK COPY

CITATION CARD-OWNER



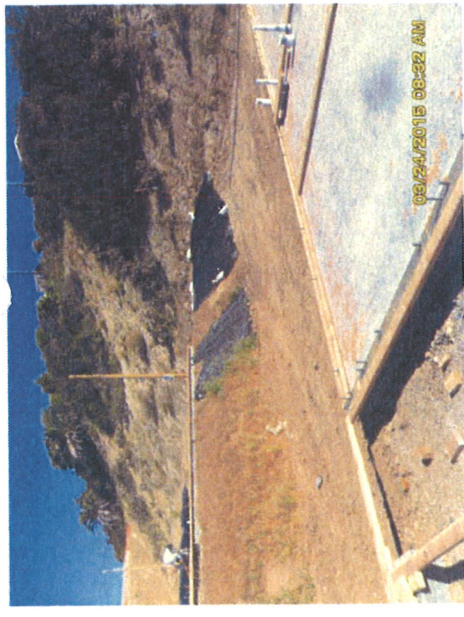
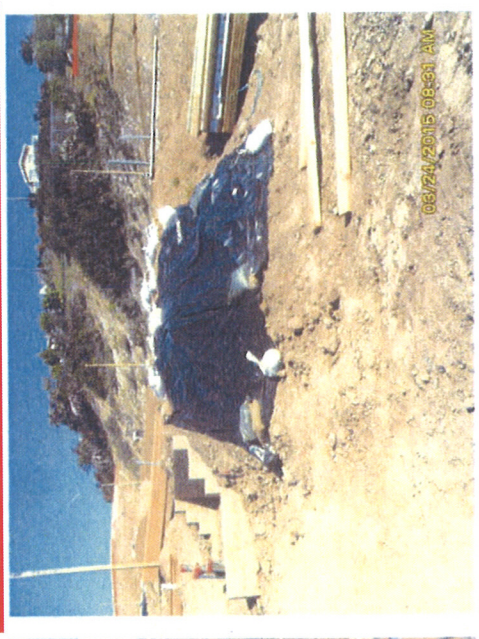






Exhibit No. 17

## CITY OF LEMON GROVE ADMINISTRATIVE CITATION

### A) TYPE OF VIOLATION

Circle One:      Warning      1<sup>st</sup> Citation \$100      2<sup>nd</sup> Citation \$200      3<sup>rd</sup> Citation \$500      4<sup>th</sup> Citation \$1,000

Payment of \$ 1,000 is due no later than 5/1/15 to the City of Lemon Grove.  
The City accepts cash, check or credit card.

If the violation is not corrected by the date specified therein and/or payment is not received by the date above, the next level of citation may be issued, other enforcement actions may occur, and penalties may be assessed (25% and interest at the rate of 10% per month). Payment of fine does not excuse or discharge the failure to correct violation identified below.

### B) RESPONSIBLE PARTY INFORMATION

Person Cited: Anderson Tim  
(Last Name) (First Name)

Circle One:      Property Owner      Tenant      Business Owner      Other Project Manager

Mailing Address: 3194-C2 Airport Loop Road, Costa Mesa, CA 92626

Business Name (if applicable): BCA Development      CC: Phil Dowley, Code Enforcement File

### C) VIOLATION(S) INFORMATION

Date (Violation Observed): 4/1/15      Time (Violation Observed): 12:25 PM

Location of Violation: 1350 San Altos Place / Valencia  
(Street Address) (APN)

Violation(s) Observed (Code Section and Description):  
8.48.040  
Illegal Discharges of cementious material -  
See photos.

### D) CORRECTION(S) REQUIRED (with date to complete corrections)

Clean up cementious material immediately. Verbal direction given 4/1/15.

### E) SERVICING CITATION INFORMATION

Enforcing Officer Name      Phone No.      Signature      Date  
Tamara O'Neal      619-825-3800      [Signature]      4/1/15

Person Cited – Signature Acknowledging Receipt \_\_\_\_\_ (Date)

Citation Served (circle one):      In Person      By Mail / Email      n Property

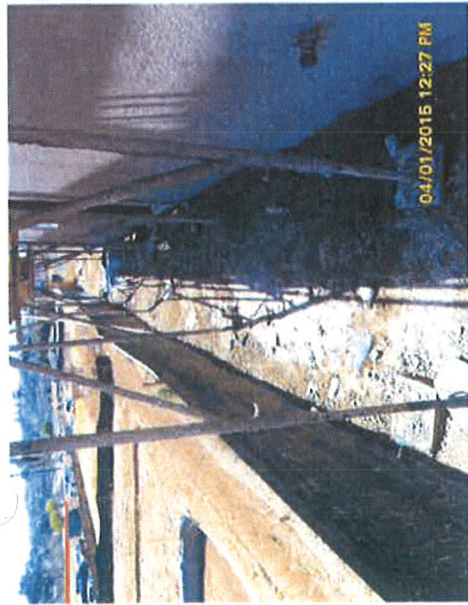
This citation may be appealed within thirty (30) days from date of correction identified in Section D. To request an appeal, a Request an Appeal Hearing form (available at City Hall) should be completed and returned to City Hall. In the event a Hardship Waiver is requested, the Request for an Appeal Hearing and Hardship Waiver forms are required within fifteen (15) days from the correction date identified in Section D.

WHITE ORIGINAL

PINK COPY

CITATION CARD OWNER







**Exhibit No. 18**

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - SAN DIEGO REGION  
WATERSHED PROTECTION PROGRAM**

**FACILITY INSPECTION REPORT**

**FACILITY:** Valencia Hills    **INSPECTION DATE/TIME:** May 8, 2015; 19:00    **WDID/FILE NO.:** 93 7C369143

**REPRESENTATIVE(S) PRESENT DURING INSPECTION:**

NAME: Frank Melbourn

AFFILIATION: San Diego Water Board

NAME: Unnamed Security Guard

AFFILIATION: Unknown

San Altos-Lemon Grove, LLC  
NAME OF OWNER, AGENCY OR PARTY RESPONSIBLE FOR DISCHARGE

BCA Development, Inc.  
FACILITY OR DEVELOPER NAME (if different from owner)

5780 Fleet Avenue  
Carlsbad, CA 92008  
OWNER MAILING ADDRESS

1350 San Altos Place  
Lemon Grove, CA 91945  
FACILITY ADDRESS

Ben Anderson, 714-966-1544  
OWNER CONTACT NAME AND PHONE #

Same  
FACILITY OR DEVELOPER CONTACT NAME AND PHONE #

**APPLICABLE WATER QUALITY LICENSING REQUIREMENTS:**

- |   |   |
|---|---|
| <input type="checkbox"/> MS4 URBAN RUNOFF REQUIREMENTS          | <input type="checkbox"/> GENERAL OR INDIVIDUAL WASTE DISCHARGE REQUIREMENTS OR NPDES  |
| <input checked="" type="checkbox"/> CONSTRUCTION GENERAL PERMIT | <input type="checkbox"/> GENERAL OR INDIVIDUAL WAIVER OF WASTE DISCHARGE REQUIREMENTS |
| <input type="checkbox"/> CALTRANS GENERAL PERMIT                | <input type="checkbox"/> SECTION 401 WATER QUALITY CERTIFICATION                      |
| <input type="checkbox"/> INDUSTRIAL GENERAL PERMIT              | <input type="checkbox"/> CWC SECTION 13264  |

**INSPECTION TYPE (Check One):**

- ☐ "A" TYPE COMPLIANCE--COMPREHENSIVE INSPECTION IN WHICH SAMPLES ARE TAKEN. (EPA TYPE S)
- ☐ "B" TYPE COMPLIANCE--A ROUTINE NONSAMPLING INSPECTION. (EPA TYPE C)
- ☒ NONCOMPLIANCE FOLLOW-UP--INSPECTION MADE TO VERIFY CORRECTION OF A PREVIOUSLY IDENTIFIED VIOLATION.
- ☐ ENFORCEMENT FOLLOW-UP--INSPECTION MADE TO VERIFY THAT CONDITIONS OF AN ENFORCEMENT ACTION ARE BEING MET.
- ☐ COMPLAINT--INSPECTION MADE IN RESPONSE TO A COMPLAINT.
- ☐ PRE-REQUIREMENT--INSPECTION MADE TO GATHER INFO. RELATIVE TO PREPARING, MODIFYING, OR RESCINDING REQUIREMENTS.
- ☐ NO EXPOSURE CERTIFICATION (NEC) - VERIFICATION THAT THERE IS NO EXPOSURE OF INDUSTRIAL ACTIVITIES TO STORM WATER.
- ☐ NOTICE OF TERMINATION REQUEST FOR INDUSTRIAL FACILITIES OR CONSTRUCTION SITES - VERIFICATION THAT THE FACILITY OR CONSTRUCTION SITE IS NOT SUBJECT TO PERMIT REQUIREMENTS.
- ☐ COMPLIANCE ASSISTANCE INSPECTION - OUTREACH INSPECTION DUE TO DISCHARGER'S REQUEST FOR COMPLIANCE ASSISTANCE.

**INSPECTION FINDINGS:**

  Y   WERE VIOLATIONS NOTED DURING THIS INSPECTION? (YES/NO/PENDING SAMPLE RESULTS)

Facility: Valencia Hills  
Inspection Date: May 8, 2015

## I. COMPLIANCE HISTORY / PURPOSE OF INSPECTION

On August 14, 2014, the City of Lemon Grove (City) notified the San Diego Water Board of an unauthorized non-storm water discharge to the City's Municipal Separate Storm Sewer System (MS4) from the Site caused by a contractor hitting a 12-inch water main. On August 15, 2014, the San Diego Water Board issued a Staff Enforcement Letter (SEL) via email to San Altos-Lemon Grove, LLC (Discharger) notifying them that the non-storm water discharge from the Site was an unauthorized discharge, with a request for additional information. The Qualified SWPPP<sup>1</sup> Practitioner (QSP) estimated that approximately 31,000 gallons of potable water discharged through the Site, and was "brown and sediment laden" when it discharged from the Site.

On December 2, 2014, the City issued a Stop Work/Notice of Violation to the Site for failing to implement Best Management Practices (BMPs) required by local storm water ordinances. The City's inspection form issued with the Stop Work/Notice of Violation noted inadequate implementation of erosion controls, entrance/exit stabilization, and stockpile management and warned the project manager that a "discharge is imminent" without adequate BMPs. The Discharger was required to stop work and implement BMPs to be prepared for a storm event that was expected to occur on December 3 and 4, 2014. The Discharger failed to implement BMPs before the storm, resulting in unauthorized discharges of sediment and sediment laden storm water runoff from the Site to an unnamed tributary to Chollas Creek. The City issued a second Stop Work/Notice of Violation to the Discharger on December 4, 2014, for the illegal discharges to the City's MS4.

The City conducted a follow up inspection of the Site on December 9, 2014, and noted the same BMP deficiencies identified before the December 3 and 4, 2014, storm event, as well as additional deficiencies in perimeter sediment controls. The City's inspection form identified areas to be addressed by the Discharger and recommended appropriate BMPs.

The Discharger again failed to implement BMPs before a storm event on December 11, 2014, and again it resulted in unauthorized discharges of sediment and sediment laden storm water from the Site to an unnamed tributary to Chollas Creek. On December 11, 2014, the City issued an Administrative Citation to the Discharger requiring BMPs to be implemented by December 15, 2014, before monetary penalties would begin. On the morning of December 12, 2014, the City contacted the San Diego Water Board about the unauthorized discharges of sediment and sediment-laden storm water to their MS4 from the Site. According to the City, the Discharger claimed the Site was in compliance with the requirements of the Construction Storm Water Permit; therefore the Discharger should be considered in compliance with the City's storm water ordinance. The City requested an inspection from the San Diego Water Board to determine compliance with the Construction Storm Water Permit.

---

<sup>1</sup> Storm Water Pollution Prevention Plan (SWPPP).



Facility: Valencia Hills  
Inspection Date: May 8, 2015

On December 15, 2014, San Diego Water Board inspector, Wayne Chiu inspected the Site for compliance with the Construction Storm Water Permit. During the inspection, the San Diego Water Board inspector found evidence of inadequate implementation of stockpile management, vehicle storage and maintenance, erosion control, sediment control, run-on and runoff control, and inspection, maintenance, and repair requirements. The San Diego Water Board inspector also found evidence of inadequate implementation of additional erosion control and sediment controls required for Risk Level 2 construction sites. On December 19, 2014, the San Diego Water Board issued Notice of Violation No. R9-2014-0153 to the Discharger and requested a written response demonstrating that the violations were corrected. The Discharger provided a written response, dated January 1, 2015.

On January 26, 2015, the City provided written notification to the San Diego Water Board that the Stop Work had been removed for the Site with a summary of inspections and enforcement conducted by the City between December 2, 2014, and January 22, 2015. Between December 16, 2014, and January 19, 2015, a contractor to the City continued to inspect the Site to track BMP implementation progress. Based on an inspection conducted on January 6, 2015, the contractor to the City indicated most of the major BMP deficiencies had been addressed. The contractor to the City indicated removal of the Stop Work is appropriate in a January 16, 2015, memo to the City. The City removed the Stop Work on January 22, 2015.

On March 27, 2015, the San Diego Water Board conducted a follow up inspection to determine if the Site had adequately implemented BMPs that achieve BAT and BCT for a Risk Level 2 construction site. While standing at the intersection of Orlando Drive and Seville Way, San Diego Water Board Inspector, Frank Melbourn, warned Discharger representatives that the then failure to have erosion and sediment control BMPs on Seville Way was a violation of the Construction Storm Water Permit, and would likely result in a sediment discharge if there were to be a rain event. Discharger representatives claimed that if the Site were to have another rain event, they would build a dirt berm at the top of Seville Way to prevent runoff from discharging down Seville Way. Overall, the San Diego Water Board inspector, Wayne Chiu, found that the Discharger implemented corrective actions that largely addressed the violations identified in Notice of Violation No. R9-2015-0153.

## II. FINDINGS

1. The Site received approximately 0.5 inches of rain in the last 24 hours. Muddy sediment runoff was observed on Orlando Drive in two places, and also at the intersection of Orlando Drive and Valencia Court. The sediment came off of graded housing pads with ineffective or non-existent erosion and sediment control BMPs.
2. Several areas were observed to be inactive, or could be scheduled to be inactive, without effective soil cover to control erosion. The lack of erosion controls in these areas contributed to unauthorized sediment discharges from the site. All construction sites are required to provide effective soil cover for inactive areas

Facility: Valencia Hills  
Inspection Date: May 8, 2015

(i.e. areas that have been disturbed and not scheduled to be re-disturbed for at least 14 days) and all finished slopes, open space, utility backfill, and completed lots.

3. **Active areas** were observed to **lack appropriate erosion control BMPs** (runoff control and soil stabilization) to prevent erosion during storm events. Risk Level 2 construction sites are required to implement appropriate erosion control BMPs (runoff control and soil stabilization) in conjunction with sediment control BMPs for areas under active construction.
4. Several slopes throughout the site were observed **without linear sediment controls** along the toe and grade breaks of exposed slopes. Risk Level 2 construction sites are required to apply linear sediment controls along the toe of the slope, face of the slopes, and at the grade breaks of exposed slopes to comply with sheet flow lengths given in Table 1 of Attachment D to the Construction Storm Water Permit.
5. Seville Way is a short steep graded dirt street without erosion or sediment control BMPs. The failure to control the runoff from Seville Way resulted in a direct discharge into an unnamed tributary to Chollas Creek. Lack of effective perimeter sediment controls resulted in an unauthorized sediment discharge from the site. All construction sites are required to establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from the site.
6. **Lack of effective run-on and runoff controls** observed within and around the site which contributed to sediment discharges from the site. All construction sites are required to effectively manage run-on, all runoff within the site and all runoff that discharges off the site.

### III. COMMENTS AND RECOMMENDATIONS

#### Comments

1. There were no site storm water or construction personnel present to correct deficient/failed BMPs or to cleanup discharged sediment. There were two security guards on site.
2. There is evidence that erosion controls were not adequately implemented for several inactive areas contributing to discharges of sediment from the site.
3. There is evidence that erosion controls were not adequately implemented for several active areas prior to storm events contributing to discharges of sediment from the site.



Facility: Valencia Hills  
Inspection Date: May 8, 2015

4. There is evidence that linear sediment controls were not adequately implemented for several exposed slopes contributing to slope erosion and discharges of sediment from the site.
5. There is evidence that perimeter sediment controls, as well as run-on and runoff controls, were not adequately implemented which contributed to discharges of sediment from the site.
6. There was evidence observed during the inspection that the site has not implemented BMPs to meet BCT Technology Based Effluent Limitations (TBELs) under Section V.A.2 of the CGP, as required for all construction sites, which resulted in the unauthorized discharges of sediment and sediment-laden water from the site.
7. There is evidence that either the QSP was not adequately identifying and recommending implementation of good site management "housekeeping," erosion control, sediment control, and run-on/runoff control BMPs, or the owner/developer was not directing the implementation of the BMPs as recommended by the QSP.
8. Failure to implement Rain Event Action Plan (REAP).

#### Recommendations

1. Issue a Notice of Violation for discharges of sediment from the site and failure to implement Risk Level 2 requirements of CGP.
2. Refer the site to the Compliance Assurance Unit to determine whether or not issuing formal enforcement action may be appropriate.

#### IV. SIGNATURE SECTION

Frank Melbourn  
STAFF INSPECTOR

  
SIGNATURE

May 8, 2015  
INSPECTION DATE

Chiara Clemente  
REVIEWED BY SUPERVISOR

  
SIGNATURE

5/12/15  
DATE

#### SMARTS:

Tech Staff Info & Use	
WDID	937C369143
Place ID	SM-828060
Inspection ID	2025608
Violation ID	857231 & 857232

Facility: Valencia Hills  
Inspection Date: May 8, 2015



**Photograph No. 1:** 20150508\_191716.jpg, taken by Frank Melbourn, San Diego Water Board

**Photograph No. 1** looks west at Orlando Drive from San Altos Place. The photograph displays a **sediment discharge** from disturbed construction areas into the street. The sediment was an inch thick in some areas. Displayed slopes in the photograph show signs of erosion, and were lacking erosion and sediment control BMPs at their base. Parkway strips failed to have sediment control BMPs. There was no site personnel available to cleanup discharged sediment or maintain/reinforce failed BMPs. There was an absence of run-on/run-off control BMPs. For example there were no gravel bag chevrons or check dams along the street to slow down the runoff flow.



Facility: Valencia Hills  
Inspection Date: May 8, 2015



**Photograph No. 2:** 20150508\_191734.jpg, taken by Frank Melbourn, San Diego Water Board

**Photograph No. 2** looks southwest at Orlando Drive from San Altos Place. The photograph displays a **sediment discharge** from disturbed construction areas into the street. The photograph also displays unprotected (absent erosion control BMPs) disturbed soil and a lack of sediment controls above street gutters. The gravel bags deployed to protect the storm drain inlet were ineffective as evidenced by the turbid sediment laden storm water on the inside edges of the gravel bags. Again the use of gravel bag chevrons could have been implemented in the street.



Facility: Valencia Hills  
Inspection Date: May 8, 2015



**Photograph No. 3:** 20150508\_191955.jpg, taken by Frank Melbourn, San Diego Water Board

**Photograph No. 3** looks northeast at the corner of Valencia Court and Orlando Drive from Orlando Drive. The photograph displays a **sediment discharge** from disturbed construction areas into the street. Except the area with plastic sheeting, displayed slopes in the photograph show signs of erosion, and were lacking erosion and sediment control BMPs at their base.



Facility: Valencia Hills  
Inspection Date: May 8, 2015



**Photograph No. 4:** 20150508\_192214.jpg, taken by Frank Melbourn, San Diego Water Board

**Photograph No. 4** looks northwest up Seville Way from Akins Avenue. The photograph displays disturbed soil without erosion control BMPs and sediment control BMPs.



Facility: Valencia Hills  
Inspection Date: May 8, 2015



**Photograph No. 5:** 20150508\_192234.jpg, taken by Frank Melbourn, San Diego Water Board

**Photograph No. 5** looks southeast onto the unnamed tributary to Chollas Creek from the intersection of Seville Way and Akins Avenue. The photograph displays the **sediment discharge point** between the gap (identified by red arrow) in the site perimeter control BMPs into the unnamed tributary. A buildup of eroded sediment from the site can be seen at the base of the gravel bags.



Facility: Valencia Hills  
Inspection Date: May 8, 2015



**Photograph No. 6:** 20150508\_192253.jpg, taken by Frank Melbourn, San Diego Water Board

**Photograph No. 6** looks northeast onto Akins Avenue from the intersection of Akins Avenue and Seville Way. The photograph displays disturbed soil **without erosion control BMPs** and **sediment control BMPs**. The photograph also displays perimeter control BMPs on the right hand side.

Exhibit No. 19

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - SAN DIEGO REGION  
WATERSHED PROTECTION PROGRAM

FACILITY INSPECTION REPORT

FACILITY: Valencia  
WDID/FILE NO.: 937C369143

INSPECTION DATE/TIME: 5/13/2015; 11:30 am

REPRESENTATIVE(S) PRESENT DURING INSPECTION:

NAME: Wayne Chiu  
NAME: Frank Melbourn  
NAME: \_\_\_\_\_

AFFILIATION: San Diego Water Board  
AFFILIATION: San Diego Water Board  
AFFILIATION: \_\_\_\_\_

San Altos Lemon Grove LLC  
NAME OF OWNER, AGENCY OR PARTY RESPONSIBLE FOR DISCHARGE

5780 Fleet Avenue  
Carlsbad, CA 92008  
OWNER MAILING ADDRESS

Ben Anderson, 714-966-1544  
OWNER CONTACT NAME AND PHONE #

BCA Development, Inc.  
FACILITY OR DEVELOPER NAME (if different from owner)

1350 San Altos Place  
Lemon Grove, CA 91945  
FACILITY ADDRESS

Same  
FACILITY OR DEVELOPER CONTACT NAME AND PHONE #

APPLICABLE WATER QUALITY LICENSING REQUIREMENTS:

- |   |   |
|---|---|
| <input type="checkbox"/> MS4 URBAN RUNOFF REQUIREMENTS          | <input type="checkbox"/> GENERAL OR INDIVIDUAL WASTE DISCHARGE REQUIREMENTS OR NPDES  |
| <input checked="" type="checkbox"/> CONSTRUCTION GENERAL PERMIT | <input type="checkbox"/> GENERAL OR INDIVIDUAL WAIVER OF WASTE DISCHARGE REQUIREMENTS |
| <input type="checkbox"/> CALTRANS GENERAL PERMIT                | <input type="checkbox"/> SECTION 401 WATER QUALITY CERTIFICATION                      |
| <input type="checkbox"/> INDUSTRIAL GENERAL PERMIT              | <input type="checkbox"/> CWC SECTION 13264  |

INSPECTION TYPE (Check One):

- ☐ "A" TYPE COMPLIANCE--COMPREHENSIVE INSPECTION IN WHICH SAMPLES ARE TAKEN. (EPA TYPE S)
- ☐ "B" TYPE COMPLIANCE--A ROUTINE NONSAMPLING INSPECTION. (EPA TYPE C)
- ☒ NONCOMPLIANCE FOLLOW-UP--INSPECTION MADE TO VERIFY CORRECTION OF A PREVIOUSLY IDENTIFIED VIOLATION.
- ☐ ENFORCEMENT FOLLOW-UP--INSPECTION MADE TO VERIFY THAT CONDITIONS OF AN ENFORCEMENT ACTION ARE BEING MET.
- ☐ COMPLAINT--INSPECTION MADE IN RESPONSE TO A COMPLAINT.
- ☐ PRE-REQUIREMENT--INSPECTION MADE TO GATHER INFO. RELATIVE TO PREPARING, MODIFYING, OR RESCINDING REQUIREMENTS.
- ☐ NO EXPOSURE CERTIFICATION (NEC) - VERIFICATION THAT THERE IS NO EXPOSURE OF INDUSTRIAL ACTIVITIES TO STORM WATER.
- ☐ NOTICE OF TERMINATION REQUEST FOR INDUSTRIAL FACILITIES OR CONSTRUCTION SITES - VERIFICATION THAT THE FACILITY OR CONSTRUCTION SITE IS NOT SUBJECT TO PERMIT REQUIREMENTS.
- ☐ COMPLIANCE ASSISTANCE INSPECTION - OUTREACH INSPECTION DUE TO DISCHARGER'S REQUEST FOR COMPLIANCE ASSISTANCE.

INSPECTION FINDINGS:

Y WERE VIOLATIONS NOTED DURING THIS INSPECTION? (YES/NO/PENDING SAMPLE RESULTS)

Facility: Valencia  
Inspection Date: 5/13/2015

## I. COMPLIANCE HISTORY / PURPOSE OF INSPECTION

On December 2, 2014, the City of Lemon Grove (City) issued a Stop Work/Notice of Violation to the Valencia construction site (WDID 9 37C369143) for failing to implement construction storm water best management practices (BMPs) required by local ordinances. The City's inspection report issued with the Stop Work/Notice of Violation noted inadequate implementation of erosion controls, entrance/exit stabilization, and stockpile management and warned the project manager that a "discharge is imminent" without adequate BMPs. The site was required to stop work and implement BMPs to be prepared for a storm event that occurred on December 3 and 4, 2014.

The site failed to implement BMPs before the storm, resulting in unauthorized discharges of sediment and sediment-laden storm water from the site to the City's municipal separate storm sewer system (MS4). The City issued a second Stop Work/Notice of Violation on December 4, 2014 for the illegal discharges to the City's MS4. The City conducted a follow up inspection on December 9, 2014 and noted the same BMP deficiencies identified before the December 3 and 4, 2014 storm event, as well as additional deficiencies in perimeter sediment controls. The inspection report provided recommendations for locations that needed to be addressed and types of BMPs. The site again failed to implement BMPs before a subsequent storm event that occurred on December 11, 2014, again resulting in unauthorized discharges of sediment and sediment-laden storm water from the site to the City's MS4. On December 11, 2014, the City issued an Administrative Citation to the site requiring BMPs to be implemented by December 15, 2014 before monetary penalties would begin. The Stop Work/Notice of Violation issued on December 2 and 4, 2014 and the Administrative Citation issued on December 11, 2014 by the City are attached to the end of this inspection report.

On December 15, 2014, Wayne Chiu of the San Diego Water Board inspected the site for compliance with the requirements of the Statewide Construction General Storm Water Permit, Order No. 2009-0009-DWQ (CGP). According to the Storm Water Multiple Application & Report Tracking System (SMARTS), the site is a Risk Level 2 construction site, disturbing over 18 acres, and owned by San Alto Lemon Grove LLC. The developer of the site is BCA Development, Inc. During the inspection, the San Diego Water Board observed evidence of inadequate implementation of stockpile management, vehicle storage and maintenance, erosion control, sediment control, run-on and runoff control, and inspection, maintenance, and repair requirements. In addition, there was evidence of inadequate implementation of additional erosion and sediment controls required for Risk Level 2 construction sites. On December 19, 2014, the San Diego Water Board issued Notice of Violation No. R9-2014-0153 to the Discharger and requested a written response demonstrating that the violations were corrected. The Discharger provided a written response, dated January 1, 2015. On January 26, 2015, the City provided written notification to the San Diego Water Board that the Stop Work had been removed for the site on January 22, 2015.



Facility: Valencia  
Inspection Date: 5/13/2015

On March 27, 2015, the San Diego Water Board conducted a follow up inspection to determine if the site had adequately implemented BMPs that achieve BAT and BCT for a Risk Level 2 construction site. While standing at the intersection of Orlando Drive and Seville Way on the site, San Diego Water Board inspector, Frank Melbourn, warned Discharger representatives that the failure to have erosion and sediment control BMPs on Seville Way was a violation of the CGP, and would likely result in a sediment discharge from the site if there were to be a rain event. Discharger representatives claimed that if the site were to have another rain event, they would build a dirt berm at the top of Seville Way to prevent runoff from discharging down Seville Way. San Diego Water Board inspector, Wayne Chiu, found that the Discharger implemented corrective actions that largely addressed the violations identified in Notice of Violation No. R9-2015-0153.

On May 8, 2015, Frank Melbourn of the San Diego Water Board inspected the site following a rain event of approximately 0.5 inches. The inspector observed inadequate implementation of erosion controls in several inactive areas and active areas, perimeter sediment controls, linear sediment controls on several slopes, and run-on and runoff controls within and around the site. Evidence of sediment transport through the site observed on paved streets within the site, and an unauthorized discharge of sediment from the site to the Encanto Channel (a tributary to Chollas Creek) and Akins Road adjacent to the site.

On May 13, 2015, Wayne Chiu and Frank Melbourn of the San Diego Water Board conducted a subsequent inspection to determine if the site was implementing BMPs in preparation for a rain event forecasted for the following day.

## II. FINDINGS

1. Several stockpiles observed without adequate containment (See Photos 1 and 2). All construction sites are required to contain and securely protect stockpiled waste material from wind and rain at all times unless actively being used.
2. Construction equipment and vehicles observed without appropriate BMPs (e.g. drip pans) to prevent oil, grease, or fuel to leak in to the ground, storm drains, or surface waters (See Photo 3). All construction sites are required to prevent oil, grease or fuel to leak in to the ground, storm drains, or surface waters, and to place all equipment and vehicles, which are to be fueled, maintained and stored in a designated area fitted with appropriate BMPs.
3. Several areas were observed to be inactive, or could be scheduled to be inactive, without effective soil cover to control potential erosion. Several completed building pads and several inactive slopes (See Photos 4 through 6) lacked any effective soil cover for erosion control. All construction sites are required to provide effective soil cover for inactive areas (i.e. areas that have been disturbed and not scheduled to be re-disturbed for at least 14 days) and all finished slopes, open space, utility backfill, and completed lots.



Facility: Valencia  
Inspection Date: 5/13/2015

4. **Active areas** were observed to **lack appropriate erosion control BMPs** (runoff control and soil stabilization) to prevent erosion during storm events (See Photos 7 through 12). Risk Level 2 construction sites are required to implement appropriate erosion control BMPs (runoff control and soil stabilization) in conjunction with sediment control BMPs for areas under active construction.
5. Several slopes throughout the site were observed to **lack linear sediment controls** along the toe and grade breaks of exposed slopes (See Photos 1, 5, 6, 8, 9, 11, and 12). Risk Level 2 construction sites are required to apply linear sediment controls along the toe of the slope, face of the slopes, and at the grade breaks of exposed slopes to comply with sheet flow lengths given in Table 1 of Attachment D to the CGP.
6. Lack of effective perimeter sediment controls observed (See Photos 13 and 14). All construction sites are required to establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from the site.
7. **Lack of effective run-on and runoff controls** observed within and around the site (See Photos 7 through 14). All construction sites are required to effectively manage run-on, all runoff within the site and all runoff that discharges off the site.
8. There were no personnel on site that appeared to be implementing BMPs to prepare for the forecasted rain event, such as erosion control measures or controls within the site to reduce sheet flow runoff lengths in active areas, or inspecting the perimeter controls for areas requiring additional attention, repairs, or maintenance.

### III. COMMENTS AND RECOMMENDATIONS

#### Comments

1. There is evidence that good site management "housekeeping" BMPs were not being adequately implemented (See Findings 1 and 2).
2. There is evidence that erosion controls were not adequately implemented for several inactive areas contributing to discharges of sediment from the site (See Finding 3).
3. There is evidence that erosion controls were not adequately implemented for several active areas prior to storm events (See Finding 4).
4. There is evidence that linear sediment controls were not adequately implemented for several exposed slopes (See Finding 5).

Facility: Valencia  
Inspection Date: 5/13/2015

5. There is evidence that perimeter sediment controls, as well as run-on and runoff controls, were not adequately implemented (See Findings 6 and 7).
6. There is evidence that either the QSP was not adequately identifying and recommending implementation of good site management "housekeeping," erosion control, sediment control, and run-on/runoff control BMPs, or the owner/developer was not directing the implementation of the BMPs as recommended by the QSP (See Finding 8).
7. There was evidence observed during the inspection that the site has not implemented BMPs to meet BCT Technology Based Effluent Limitations (TBELs) under Section V.A.2 of the CGP, as required for all construction sites, which resulted in the unauthorized discharges of sediment and sediment-laden water from the site observed or documented on December 4, 11, and 15, 2014 (See Compliance History discussion and Findings 1 through 8).

#### Recommendations

The Discharger has failed to maintain compliance with the requirements of the CGP even after repeated enforcement actions by the City of Lemon Grove and the San Diego Water Board. A formal enforcement action should be issued to the Discharger for this continued and repeated noncompliance with the requirements of the CGP.

#### IV. SIGNATURE SECTION

Wayne Chiu  
STAFF INSPECTOR

  
SIGNATURE

5/13/2015

INSPECTION DATE

Eric Becker  
REVIEWED BY SUPERVISOR

  
SIGNATURE

5/20/15  
DATE

#### SMARTS:

Tech Staff Info & Use	
WDID	937C369143
Place ID	SM-828060
Inspection ID	2025695
Violation ID	857243



Facility: Valencia  
Inspection Date: 5/13/2015



Photo 1



Photo 2

Photos 1 and 2 shows soil stockpiles covered with black plastic without adequate containment. Slope in Photo 1 covered with white plastic lacks linear sediment controls at the based and at grade break along top of slope.



Photo 3

Photo 3 shows construction vehicle without appropriate BMPs (e.g. drip pans) to prevent oil, grease, or fuel to leak in to the ground, storm drains, or surface waters.



Facility: Valencia  
Inspection Date: 5/13/2015



Photo 4



Photo 5



Photo 6

Photos 4 through 6 show several **inactive areas**, or areas that can be made to be inactive, **lacking any effective soil cover**. Photo 4 shows a completed lot that could have been stabilized with an effective soil cover and protected from activity. Photo 5 shows a slope that appeared to be inactive and potentially finished without effective soil cover. Photo 6 shows a slope in front of a building being constructed that could have been stabilized with an effective soil cover and made to be inactive.



Facility: Valencia  
Inspection Date: 5/13/2015



Photo 7



Photo 8



Photo 9



Photo 10



Photo 11



Photo 12

Photos 9 through 12 showed several **active areas** of the site that **lacked** any evidence of **soil stabilization** measures ready to be implemented to reduce erosion potential or other measures to reduce sheet flow lengths. Photos 8, 9, 11, and 12 are slopes toward where runoff would flow toward a low point and perimeter of the site.



Facility: Valencia  
Inspection Date: 5/13/2015



**Photo 13**



**Photo 14**

**Photos 13 and 14** show areas of the perimeter where additional attention, repair, or maintenance is necessary to ensure the site has effective perimeter sediment controls to prevent erosion and sediment discharges from the site.

**Exhibit No. 20**

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - SAN DIEGO REGION  
WATERSHED PROTECTION PROGRAM**

**FACILITY INSPECTION REPORT**

**FACILITY:** Valencia Hills    **INSPECTION DATE/TIME:** May 15, 2015; 13:30    **WDID/FILE NO.:** 93 7C369143

**REPRESENTATIVE(S) PRESENT DURING INSPECTION:**

NAME: <u>Frank Melbourn</u>	AFFILIATION: <u>San Diego Water Board</u>
NAME: <u>Tim Anderson, Site Superintendent</u>	AFFILIATION: <u>New Pointe Communities, Inc.</u>
NAME: <u>Tyler Sandstrom, Project Manager</u>	AFFILIATION: <u>New Pointe Communities, Inc.</u>

San Altos-Lemon Grove, LLC  
NAME OF OWNER, AGENCY OR PARTY RESPONSIBLE FOR DISCHARGE

5780 Fleet Avenue  
Carlsbad, CA 92008  
OWNER MAILING ADDRESS

Ben Anderson, 714-966-1544  
OWNER CONTACT NAME AND PHONE #

BCA Development, Inc.  
FACILITY OR DEVELOPER NAME (if different from owner)

1350 San Altos Place  
Lemon Grove, CA 91945  
FACILITY ADDRESS

Same  
FACILITY OR DEVELOPER CONTACT NAME AND PHONE #

**APPLICABLE WATER QUALITY LICENSING REQUIREMENTS:**

- |   |   |
|---|---|
| <input type="checkbox"/> MS4 URBAN RUNOFF REQUIREMENTS          | <input type="checkbox"/> GENERAL OR INDIVIDUAL WASTE DISCHARGE REQUIREMENTS OR NPDES  |
| <input checked="" type="checkbox"/> CONSTRUCTION GENERAL PERMIT | <input type="checkbox"/> GENERAL OR INDIVIDUAL WAIVER OF WASTE DISCHARGE REQUIREMENTS |
| <input type="checkbox"/> CALTRANS GENERAL PERMIT                | <input type="checkbox"/> SECTION 401 WATER QUALITY CERTIFICATION                      |
| <input type="checkbox"/> INDUSTRIAL GENERAL PERMIT              | <input type="checkbox"/> CWC SECTION 13264  |

**INSPECTION TYPE (Check One):**

- ☐ "A" TYPE COMPLIANCE--COMPREHENSIVE INSPECTION IN WHICH SAMPLES ARE TAKEN. (EPA TYPE S)
- ☐ "B" TYPE COMPLIANCE--A ROUTINE NONSAMPLING INSPECTION. (EPA TYPE C)
- ☒ NONCOMPLIANCE FOLLOW-UP--INSPECTION MADE TO VERIFY CORRECTION OF A PREVIOUSLY IDENTIFIED VIOLATION.
- ☐ ENFORCEMENT FOLLOW-UP--INSPECTION MADE TO VERIFY THAT CONDITIONS OF AN ENFORCEMENT ACTION ARE BEING MET.
- ☐ COMPLAINT--INSPECTION MADE IN RESPONSE TO A COMPLAINT.
- ☐ PRE-REQUIREMENT--INSPECTION MADE TO GATHER INFO. RELATIVE TO PREPARING, MODIFYING, OR RESCINDING REQUIREMENTS.
- ☐ NO EXPOSURE CERTIFICATION (NEC) - VERIFICATION THAT THERE IS NO EXPOSURE OF INDUSTRIAL ACTIVITIES TO STORM WATER.
- ☐ NOTICE OF TERMINATION REQUEST FOR INDUSTRIAL FACILITIES OR CONSTRUCTION SITES - VERIFICATION THAT THE FACILITY OR CONSTRUCTION SITE IS NOT SUBJECT TO PERMIT REQUIREMENTS.
- ☐ COMPLIANCE ASSISTANCE INSPECTION - OUTREACH INSPECTION DUE TO DISCHARGER'S REQUEST FOR COMPLIANCE ASSISTANCE.

**INSPECTION FINDINGS:**

Y WERE VIOLATIONS NOTED DURING THIS INSPECTION? (YES/NO/PENDING SAMPLE RESULTS)



Facility: Valencia Hills  
Inspection Date: May 15, 2015

## I. COMPLIANCE HISTORY / PURPOSE OF INSPECTION

Follow-up to May 13, 2015, San Diego Water Board inspection to determine if Best Management Practices (BMPs) were deployed, and if so were they effective and in compliance with the State Water Resources Control Board's General Construction Storm Water Permit, Order No. 2009-0009-DWQ, NPDES No. CAS000002, as amended by Order Nos. 2010-0014-DWQ and 2012-0006-DWQ (Permit), during the storm event of May 14-15, 2015.

## II. FINDINGS

1. During the inspection, the sky was mostly cloudy with sporadic sprinkles. There were light winds; and the temperature was in the low 60's (Fahrenheit). The National Oceanic and Atmospheric Administration (NOAA) weather station for La Mesa reported receiving 0.74 inches of precipitation on May 15, 2015; and 0.11 inches on May 14, 2015. The NOAA Lemon Grove station did not collect weather information; therefore the closest NOAA station to Lemon Grove was cited.
2. I met Tim Anderson (949-275-6739), site superintendent for New Pointe Communities, Inc., at the site and I received permission from him to walk the site and to take photographs during the site inspection. Tim informed me that New Pointe Communities, Inc. had taken over for BCA Development, Inc., and that Bob Rowdine of Guardian Capital Realty will be submitting a Change of Information (COI) form. We walked the 19-acre site together and stopped at various points along the way to discuss the effectiveness of installed BMPs, identify areas that were out of compliance, and to discuss options for employing BMPs to come into compliance with the Permit. Tim stated that he had been on site since 6 a.m., and that he and his work crews had been adjusting BMPs throughout the day to improve their effectiveness during the storm event. Around 1:40 p.m., we were joined by Tyler Sandstrom.
3. Many flat graded areas have **no erosion or sediment control measures** in violation of the Permit (Attachment D §§ D.2 and E.3). Tim assured me during the walk through that next week he will spray the areas with a soil stabilizer. Tim also expressed confidence that the dirt berms on the north end of Tangelos Place and at the north end of Seville Way will hold back accumulated storm water runoff and eroded sediment. Tim additionally said that Tangelos Place will be paved next week.



Facility: Valencia Hills  
Inspection Date: May 15, 2015

4. A few gravel bag chevrons were observed on Orlando Drive and Avalon Way. There was evidence of trapped sediment behind the chevrons. I recommended that Tim consider increasing the number of chevrons in order to slow down the runoff and trap more sediment. I also pointed out that sediment in the street indicates the need for erosion control measures on the graded areas of the site. At most there were three chevrons on the north side of Avalon Way. After the inspection, while I was in my office, I reviewed the site's Storm Water Pollution Prevention Plan (SWPPP) that was uploaded to the SMARTS database, and it indicated that there should be 14 chevrons.
5. Parkway planters and front yards along Avalon Way had **no erosion control** measures and many erosion rills were observed. Gravel bags were employed at the lowest ends of the parkway planters and front yards to contain sediment. I discussed the use of sprayed soil stabilization here with Tim. Tim stated that the parkway planters and front yards will be landscaped within the next few weeks. Again the BMPs noted in the SWPPP were not installed in the field at the site.
6. Additional gravel bags (to increase freeboard) were added at the creek crossing near the San Altos Place site entrance in an attempt to prevent sediment discharges into the creek. I advised Tim to consider spraying the graded areas with soil stabilization.
7. Gravel bags were placed in front of the storm drain inlet located at the east end of Akins Avenue. This was also done for the large storm drain inlet along the south end of Tangelos Place.
8. The ripped white plastic stockpile covers on the south side of Seville Way have been replaced with black plastic.

### III. COMMENTS

#### Comments

1. There is evidence that either the QSP was not adequately identifying and recommending implementation of good site management "housekeeping," erosion control, sediment control, and run-on/runoff control BMPs, or the owner/developer was not directing the implementation of the BMPs as recommended by the QSP.
2. The majority of the BMPs specified in the SWPPP have not been installed in the field.



Facility: Valencia Hills  
Inspection Date: May 15, 2015

**IV. SIGNATURE SECTION**

Frank Melbourn  
STAFF INSPECTOR

*Frank Melbourn*  
SIGNATURE

May 22, 2015  
INSPECTION DATE

Eric Becker  
REVIEWED BY SUPERVISOR

*Eric Becker*  
SIGNATURE

5/20/15  
DATE

**SMARTS:**

Tech Staff Info & Use	
WDID	937C369143
Place ID	SM-828060
Inspection ID	2025772
Violation ID	857267



**Photograph No. 1:** IMG\_0350.jpg, taken by Frank Melbourn, San Diego Water Board

**Photograph No. 1** looks north from Tangelos Place onto Evelyn Street (behind green fence). The photograph displays an earthen berm holding back storm water runoff and eroded sediment. The soil on this side of the construction site is highly erosive. Sprayed erosion control can be seen on the slopes, as well as fiber rolls for sediment control. Large gravel and a rocker plate are installed at the site entrance as sediment controls. There was an **absence of erosion controls** on the graded street. There were **no sediment controls** but for the earthen berm.



Facility: Valencia Hills  
Inspection Date: May 15, 2015



**Photograph No. 2:** IMG\_0354.jpg, taken by Frank Melbourn, San Diego Water Board

**Photograph No. 2** looks south down Tangelos Place. The photograph displays a muddy thoroughfare without erosion and sediment control measures. Some, but not all of the stockpiles are covered with black plastic.



Facility: Valencia Hills  
Inspection Date: May 15, 2015



**Photograph No. 3:** IMG\_0356.jpg, taken by Frank Melbourn, San Diego Water Board

**Photograph No. 3** looks southeast down Avalon Way. The photograph displays sediment buildup behind a gravel back chevron or check dam in the gutter. Gravel bags were also used as sediment controls on this house lot to decrease the sediment discharge to the curb. The downhill storm drain inlet is connected to an on-site sediment basin. Spraying a soil stabilizer on the graded housing pads would reduce the erosive threat and sediment load to the street and basin.



Facility: Valencia Hills  
Inspection Date: May 15, 2015



**Photograph No. 4:** IMG\_0359.jpg, taken by Frank Melbourn, San Diego Water Board

**Photograph No. 4** looks northeast and upstream of the creek from the creek crossing near the San Altos Place entrance. The photograph displays the addition of a row of gravel bags to reduce the likelihood of a sediment discharge to the creek. Spraying the area with a soil stabilizer would greatly reduce the threat of a sediment discharge to the creek.



Facility: Valencia Hills  
Inspection Date: May 15, 2015



**Photograph No. 5:** IMG\_0366.jpg, taken by Frank Melbourn, San Diego Water Board

**Photograph No. 5** looks west from the south end of Tangelos Place at a storm drain inlet protected with gravel bags. There are no erosion or sediment control measures on Tangelos Place. Erosion rills and sediment buildup are displayed.





Exhibit No. 21

# CITY OF LEMON GROVE ADMINISTRATIVE CITATION

**A) TYPE OF VIOLATION**

Circle One:      Warning      1<sup>st</sup> Citation \$100      2<sup>nd</sup> Citation \$200      3<sup>rd</sup> Citation \$500      4<sup>th</sup> Citation \$1,000

Payment of \$ 1,000.00 is due no later than 10/22/2015 to the City of Lemon Grove.  
The City accepts cash, check or credit card.

If the violation is not corrected by the date specified therein and/or payment is not received by the date above, the next level of citation may be issued, other enforcement actions may occur, and penalties may be assessed (25% and interest at the rate of 10% per month). Payment of fine does not excuse or discharge the failure to correct violation identified below.

**B) RESPONSIBLE PARTY INFORMATION**

Person Cited: Anderson (Last Name) Tim (First Name)

Circle One:      Property Owner      Tenant      Business Owner      Other Site Representative

Mailing Address: 3194-62 AIRPORT LOOP DRIVE, COSTA MESA, CA 92626

Business Name (if applicable): NEW POINT HOMES  
CC: Phil Dowley, CODE ENFORCEMENT FIK

**C) VIOLATION(S) INFORMATION**

Date (Violation Observed): 9/15/2015 Time (Violation Observed): 2pm

Location of Violation: 1350 SAN ANTON PL/VALENCIA (Street Address) (APN)

Violation(s) Observed (Code Section and Description):  
B.48.060 18.08.560 INADEQUATE BMP'S - SEE ATTACHED INSPECTION  
18.08.170 EVIDENCE OF DISCHARGE REPORTS  
18.08.180

**D) CORRECTION(S) REQUIRED (with date to complete corrections)**

INSTALL BMP'S PER RECOMMENDATIONS, ATTACHED REPORT

**E) SERVICING CITATION INFORMATION**

Enforcing Officer Name Gary Harper Phone No. 615 434-1272 Signature [Signature] Date 9/22/15

Person Cited - Signature Acknowledging Receipt [Signature] Date 9/22/15

Citation Served (circle one): In Person By Mail Posted on Property

This citation may be appealed within thirty (30) days from date of correction identified in Section D. To request an appeal, a Request an Appeal Hearing form (available at City Hall) should be completed and returned to City Hall. In the event a Hardship Waiver is requested, the Request for an Appeal Hearing and Hardship Waiver forms are required within fifteen (15) days from the correction date identified in Section D.

WHITE-ORIGINAL

PINK-COPY

CITATION CARD Developer OWNER





Exhibit No. 22

CITY OF LEMON GROVE  
3232 Main Street, Lemon Grove, CA 91945**NPDES STORMWATER PROGRAM  
CONSTRUCTION STORMWATER COMPLIANCE INSPECTION FORM**Inspector Name /Signature/Date/Time: TAD NAKATANI 9/15/15 2:00 PMInspection: ☒ Permit-Required Inspection ☐ Follow-up Inspection ☐ Other (Explain) \_\_\_\_\_Construction Project Priority: ☒ High ☐ Medium ☐ LowApproximate rainfall since last inspection: ~.8 inches**GENERAL INFORMATION**Grading or Building Permit #: GR-1692Project Name & Type: Valencia SubdivisionProject Location & Address: San Altos PlaceContractor's Name & Telephone #: Anderson Development (949) 275-6739Property Owner & Telephone #: San Altos LLCIs this Project Greater than an Acre? ☒ Yes ☐ No ☐ N/AIf yes: Provide Record of Waste Discharge Identification Number (WDID#): 937C369143Does this Project have an NOI/SWPPP Available? ☒ Yes ☐ No ☐ N/AIs Weather Triggered Action Plan Completed? ☐ Yes ☐ No ☒ N/AIs More than 17 Acres of Cleared or Graded Areas Left Exposed at Any Given Time? ☐ Yes ☒ No ☒ N/ASufficient Standby BMPs Onsite to Protect Site Within 48 Hours of Predicted Storm? ☐ Yes ☒ No ☐ N/AAre Routine Self-Inspections Being Conducted by Developer/Owner? ☒ Yes ☐ No ☐ N/AProject Site is in What Sub-Watershed: ☒ Chollas Creek 908.22 ☐ Sweetwater River 909.12

BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
<b>Soil Stabilization and Erosion Prevention</b>					
Preservation of existing vegetation?			<input checked="" type="checkbox"/>		
Physical Stabilization: Hydraulic Mulch, Hydroseeding, Soil Binders, Straw Mulch	<input checked="" type="checkbox"/>			Significant areas lack erosion control. Evidence of erosion throughout site	No
Geotextiles, Plastic Covers, Erosion Prevention Blankets, Wood Mulching	<input checked="" type="checkbox"/>			" "	No
Site Drainage: Outlet Protection/Slope Drain			<input checked="" type="checkbox"/>		
Inlet/Outlet Protection			<input checked="" type="checkbox"/>		
<b>Sediment Control/Containment</b>					
Perimeter Protection: Silt Fencing, Gravel Bags, Fiber Rolls	<input checked="" type="checkbox"/>			Some spots lack perimeter control (silt fence)	No
Storm Drain inlet protection: Sediment Trap, De-silting Basin, Gravel Bag Barrier	<input checked="" type="checkbox"/>			No inlet protection on drain near SE corner	No
Tracking Controls: Stabilized Entrance/Exit Road Stabilization, Tire Wash, Street Sweeping	<input checked="" type="checkbox"/>			Significant sediment on streets within project & in gutter on Akins. Tire needed on all driveways where vehicles will be driving	No



BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
<b>Materials and Equipment Management</b>					
Are materials and wastes stored in a manner that minimizes or eliminates the potential to discharge these materials to the storm drain system, is secondary containment used?	X				Yes
Are material stockpiles protected: covered, contained and located away from non-storm water discharges?	X			Some small sediment piles are not protected	No
Are heavy equipment and vehicles parked in designated areas with permeable surface?	X				Yes
Are appropriate spill response and containment measures kept on the site?	X				Yes
Are wastes managed and stored properly (Solid, liquid, sanitary, concrete, hazardous)		X		Some litter/waste throughout site	No
Are concrete washouts properly installed, maintained with no evidence of discharges.	X				Yes
Is timely service and removal provided to prevent waste containers and sanitary facilities from overflowing?	X				Yes
<b>Non-Storm Water Management</b>					
Is the site free of evidence of illegal connections and/or illicit discharges?	X				Yes
<b>Discharge Locations</b>					
Are the discharge locations free of significant erosion or sediment transport?		X		Some sediment in road and gutter near SE corner	No
<b>Other</b>					
Are there any other potential storm water pollution issues/concerns?	X			Sediment will need to be cleaned out of basins & erosion around inlets needs repair	No
Was there any employee or subcontractor training on stormwater BMPs?				Not discussed	

### RECOMMENDED CORRECTIVE ACTION

SEE NEXT PAGE

Have any corrective actions from the previous inspection NOT been implemented? ☒ Yes ☐ No ☐ NA  
 If NO, and if it has been more than 30 days since the corrective action was originally required, explain why more than 30 days was necessary to resolve the deficiency: less than 30 days since previous insp.

### VIOLATIONS

- ☐ No violations noted at time of inspection/investigation
- ☐ No violations; however, recommended corrective actions required
  - ☐ Inspection Form as Correct Work Notice ☐ Correct Work Notice Issued on: \_\_\_\_\_
- ☒ Violation: Illegal Discharge/Illegal Connection/Improper BMPs Implementation
  - ☐ Stop Work Notice Issued on: \_\_\_\_\_
- ☐ Violation

## Construction BMP Recommendations

Site: VALENCIA

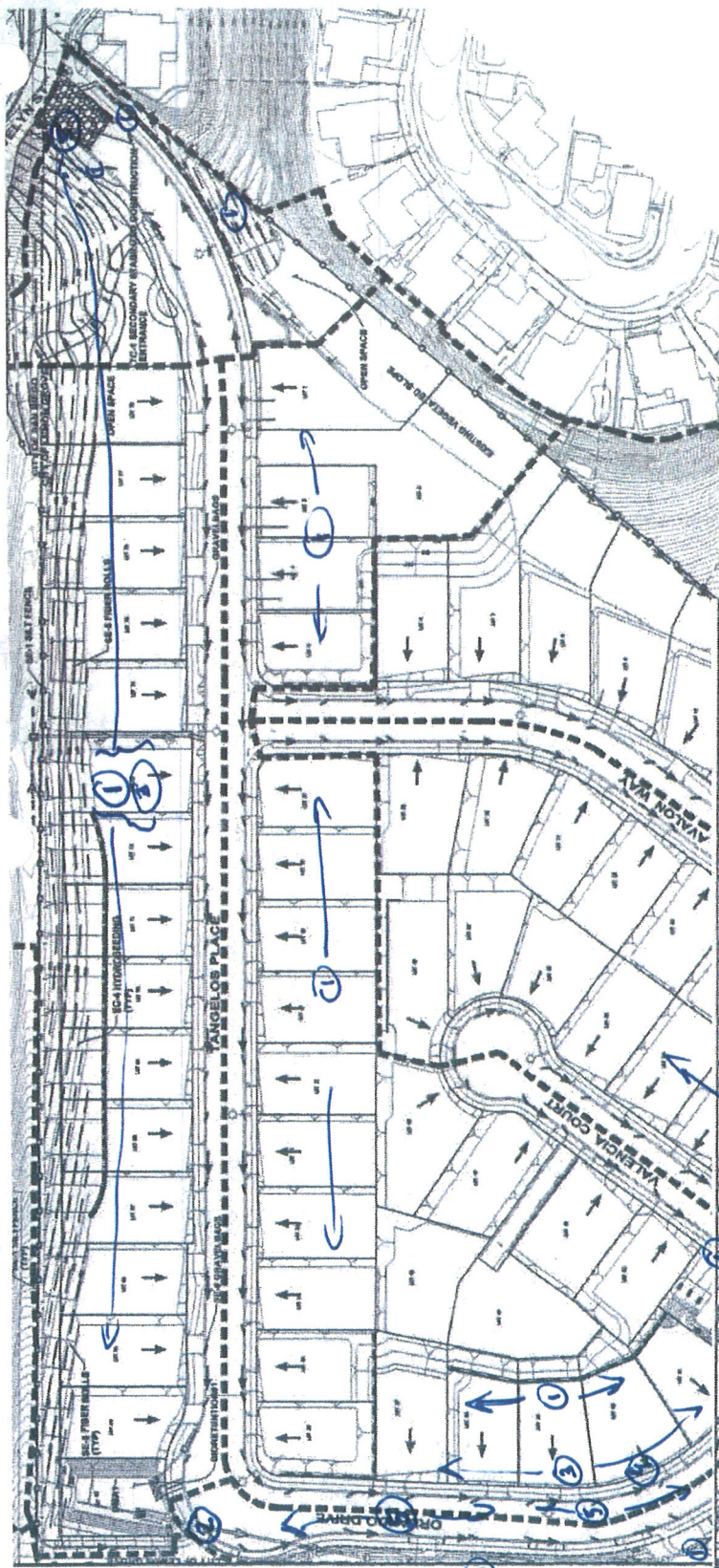
Date: 9/15/15

Recommendations:

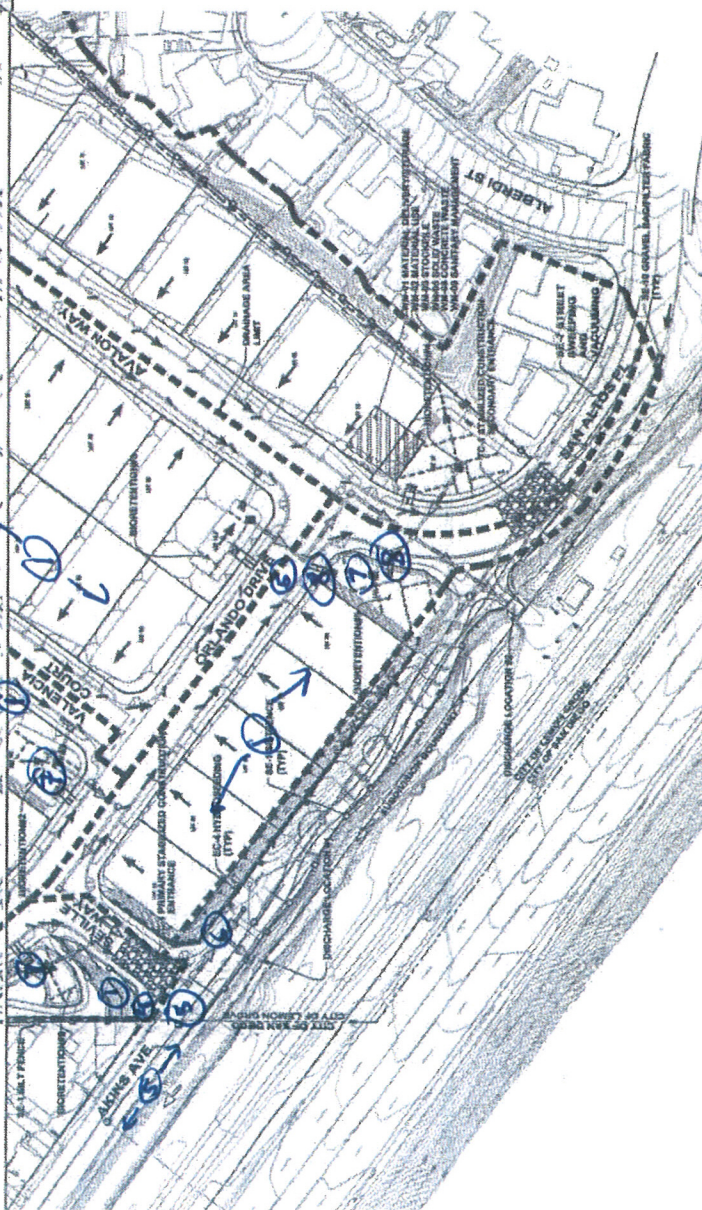
- ① UTILIZE EROSION CONTROLS ON ALL DISTURBED AREAS PRIOR TO RAIN EVENTS, OR WHEN THEY ARE NACTIVE, WHICHEVER COMES FIRST
- ② PROTECT EXPOSED AREA FROM RUN-ON AND MAKE SURE AREA IS FULLY COVERED
- ③ ADD/IMPROVE PERIMETER CONTROLS
- ④ ADD TC-1 IF VEHICLES WILL BE DRIVING ACROSS DRIVEWAY
- ⑤ CLEAN SEDIMENT OUT OF ROADWAYS & GUTTER
- ⑥ ADD INLET PROTECTION
- ⑦ CLEAN SEDIMENT OUT OF BIORETENTION BASINS, SIGNIFICANT ACCUMULATION, ESPECIALLY BY INLETS
- ⑧ REPAIR EROSION BY BASIN INLETS. ALSO RECOMMEND CLEARING OBSTRUCTIONS IN OUTLET RISER STRUCTURE
- ⑨ PICK UP TRASH



9/15/



9 THROUGHOUT SITE



**D-MAX Engineering, Inc.**

Consultants in Water &amp; Environmental Sciences

**Memo****Date:** January 16, 2015**To:** Leon Firsht, Malik Tamimi**Cc:** John Quenzer**From:** Tad Nakatani**Subject:** Summary of Inspections and Sampling at Valencia Construction Site between December 9, 2014 and January 14, 2015

Per the City's request, D-MAX conducted multiple visits to the Valencia construction site to perform inspections and to collect storm water runoff samples. Table 1 summarizes the dates of all inspection and sampling visits.

**Table 1. Inspection and Sampling Attempt Dates**

Date	Activity
12/9/2014	Inspection
12/11/2014	Inspection
12/12/2014	Sampling
12/16/2014	Inspection
12/17/2014	Sampling
12/31/2014	Sampling
1/6/2015	Inspection
1/14/2015	Inspection

**Summary of Inspections**

Several significant BMP deficiencies were observed during the initial inspection on December 9, when the site was already under a Stop Work Notice from the City. Most significantly, there were several areas that lacked adequate erosion control BMPs, and there was also evidence of concentrated flows being directed to unstabilized areas, causing significant erosion. D-MAX documented these deficiencies and provided BMP recommendations as requested by the City. D-MAX re-inspected the site two days later on December 11 and observed that the majority of the deficiencies had not been corrected. On December 12, D-MAX visited the site during a rain event and collected samples of runoff from the site. Turbidity measurements were above 500 NTU for two samples taken near the southeast corner of the site and were above 400 NTU for a sample taken near the northeast corner of the site.

During the next inspection on December 16, some additional BMP deficiencies had been addressed, but the progress was still not sufficient. D-MAX returned to the site the following day to attempt to collect a sample, but the rain had already stopped, and no runoff sample was collected. D-MAX did observe sediment on the roadway outside of the southeast corner of the





site. A power-washing contractor was in the process of cleaning the road when D-MAX visited the site. D-MAX returned to the site on the morning of December 31 to attempt to collect another runoff sample, but once again the rain had stopped several hours before the site visit. D-MAX observed some sediment in the roadway again, but it appeared to be less than during the previous visit. D-MAX sampled water ponded at two locations just outside the southeast corner of the site. Turbidity was measured at 250 NTU and 235 NTU at these locations, but these measurements likely do not accurately reflect the turbidity of runoff since there had been time for sediment to settle out.

During the inspection on January 6, D-MAX observed that most of the major BMP deficiencies had been addressed, but a few still remained unresolved.

D-MAX performed its most recent inspection on January 14. D-MAX's assessment from this inspection is that the developer has made sufficient improvements to the site, and it is appropriate to lift the Stop Work Notice. There were some minor BMP deficiencies during the January 14 inspection, and the developer will still be required to address these promptly. However, the major deficiencies that led to the Stop Work Notice have been addressed, and the overall state of the site has been improved to the point where it no longer poses the severe risk of sediment discharges that it did in December.

Table 2 provides a summary of the different BMP deficiencies observed during inspections as well as the corrective actions that had been implemented as of January 14, 2015.



**Table 2. Summary of BMP Deficiencies Observed and Corrective Actions Taken**

<b>BMP Deficiency</b>	<b>Corrective Action(s) Taken</b>
Several lots lacked adequate erosion control BMPs.	Additional lots were hydroseeded. Some smaller areas were protected with plastic sheeting
Numerous slopes on the edges of lots were not sufficiently stabilized and protected from concentrated flows, and rills/gullies had formed.	Slopes were repaired where possible. BMPs were added upstream of slopes to prevent concentrated flows. Plastic sheeting was used in select areas to create protected spillways where concentrated flows could not be eliminated. Improved growth of hydroseed on slopes was also observed.  All of the larger rills were addressed, but a few small rills still remained on January 14. The developer is required to address these areas still.
Sidewalls at the edges of lots also lacked erosion controls and several showed signs of erosion.	Sidewalls were protected with plastic sheeting.
Portions of the slope on the western edge of the site lacked full stabilization.	Additional fiber rolls were installed. Plastic sheeting was used to create protected spillways in areas where upstream contours were causing flows to concentrate.
Dirt roadways lacked sufficient stabilization and sediment controls.	Roads were compacted and large berms were built on them. A portion of the road that is inactive was hydroseeded.
Runoff from a significant portion of the site was being directed as concentrated flow to an unstabilized area in the site's southeast corner.	The developer built up an embankment to redirect flows away from this area and toward a settling area.
Some stockpiles lacked adequate cover	Covers were put on stockpiles.
The developer did not have sufficient quantities of BMP materials on site.	Additional gravel bags, fiber rolls, and silt fences were delivered to the site.
A significant amount of sediment was observed along the roadway at the southeast corner of the site.	Sweeping did not effectively remove all sediment, so a power-washing contractor was hired and removed the sediment from the road.
Gravel bag inlet protection BMPs were not always in place	Gravel bags were put in place to protect on-site and downstream off-site inlets.
Filter fabric used as part of inlet protection became potentially clogged by hydroseeding materials	Filter fabric was replaced.
Stockpiles were placed close to a drain inlet. The inlet is elevated above the ground height in that area, decreasing the risk of discharge, but stockpiles still need to be relocated away from the drain.	This deficiency was first observed on January 6. On January 14, the stockpiles had been covered, but they had not been moved sufficiently far enough away from the drain inlet. The developer is still required to address this item.
Sediment control BMPs were lacking or damaged in places.	A significant amount of additional silt fences and gravel bags were added to the site perimeter and the perimeters of lots.



Photo 1. Lot lacking erosion control BMPs



Photo 2. Hydroseed added to a lot





Photo 3. Evidence of erosion at edge of a lot



Photo 4. Rills filled in, area re-hydroseeded, silt fence added to perimeter of lot.





Photo 5. Sidewall without adequate erosion control



Photo 6 Sidewall protected with plastic sheeting.





Exhibit No. 24

CITY OF LEMON GROVE  
3232 Main Street, Lemon Grove, CA 91945NPDES STORMWATER PROGRAM  
CONSTRUCTION STORMWATER COMPLIANCE INSPECTION FORMInspector Name /Signature/Date/Time: TAD NAKATANI 1/6/15 10:30AMInspection: ☐ Permit-Required Inspection ☒ Follow-up Inspection ☐ Other (Explain) \_\_\_\_\_Construction Project Priority: ☐ High ☒ Medium ☐ Low

## GENERAL INFORMATION

Grading or Building Permit #: GR-1692Project Name & Type: VALENCIA SUBDIVISIONProject Location & Address: SAN ALTOS PLACEContractor's Name & Telephone #: ANDERSON DEVELOPMENT (949) 275-6739Property Owner & Telephone #: SAN ALTOS LLCIs this Project Greater than an Acre? ☒ Yes ☐ No ☐ N/AIf yes: Provide Record of Waste Discharge Identification Number (WDID#): 937C369143Does this Project have an NOI/SWPPP Available? ☒ Yes ☐ No ☐ N/AIs Weather Triggered Action Plan Completed? ☐ Yes ☐ No ☒ N/AIs Advanced Treatment Implemented Appropriately? ☐ Yes ☐ No ☒ N/AIs More than 17 Acres of Cleared or Graded Areas Left Exposed at Any Given Time? ☐ Yes ☒ No ☐ N/AIs 125% of Materials to Install Standby BMPs Available? Unclear: Have additional silt fences but may need more after installing on more lots ☐ Yes ☐ No ☐ N/AAre Routine Self-Inspections Being Conducted by Developer/Owner? ☒ Yes ☐ No ☐ N/AProject Site is in What Sub-Watershed: ☒ Chollas Creek 908.22 ☐ Sweetwater River 909.12Nearest Conveyances or Water Bodies: ENCANTO CHANNEL TO CHOLLAS CREEK

BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
Soil Stabilization and Erosion Prevention					
Preservation of existing vegetation?			X		
Physical Stabilization: Hydraulic Mulch, Hydroseeding, Soil Binders, Straw Mulch	X			Area near Akins entrance not fully stabilized. Several gullies ungrouted sites	No
Geotextiles, Plastic Covers, Erosion Prevention Blankets, Wood Mulching	X			Additional gravel bags needed at base of plastic spillway on south side. Sidewalls lack plastic covering	No
Site Drainage: Outlet Protection/Slope Drain		X			
Inlet/Outlet Protection		X			
Sediment Control/Containment					
Perimeter Protection: Silt Fencing, Gravel Bags, Fiber Rolls	X			Additional fiber rolls needed on slope on west side	No
Storm Drain inlet protection: Sediment Trap, De-silting Basin, Gravel Bag Barrier	X			Fabric on drain in basin clogged with hydroseed. Bags along Akins have been removed & not replaced yet	No



BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
Tracking Controls: Stabilized Entrance/Exit Road Stabilization, Tire Wash, Street Sweeping	X				Yes
<b>Materials and Equipment Management</b>					
Are materials and wastes stored in a manner that minimizes or eliminates the potential to discharge these materials to the storm drain system, is secondary containment used?	X				Yes
Are material stockpiles protected: covered, contained and located away from non-storm water discharges?	X			Uncovered stockpiles reported as active	Yes
Are heavy equipment and vehicles parked in designated areas with permeable surface?	X				Yes
Are appropriate spill response and containment measures kept on the site?	X				Yes
Are wastes managed and stored properly (Solid, liquid, sanitary, concrete, hazardous)	X				Yes
Are concrete washouts properly installed, maintained with no evidence of discharges.	X				Yes
Is timely service and removal provided to prevent waste containers and sanitary facilities from overflowing?	X				Yes
<b>Non-Storm Water Management</b>					
Is the site free of evidence of illegal connections and/or illicit discharges?	X				Yes
<b>Discharge Locations</b>					
Are the discharge locations free of significant erosion or sediment transport?	X				Yes
<b>Other</b>					
Are there any other potential storm water pollution issues/concerns?	X			stockpiles are too close to drain in NE Basin. Need to be moved or removed	No
Was there any employee or subcontractor training on stormwater BMPs?			X	Not Discussed	

### VIOLATIONS

- ☐ No violations noted at time of inspection/investigation  
☐ No violations; however, recommended corrective actions required  
☐ Inspection Form as Correct Work Notice ☐ Correct Work Notice Issued on: \_\_\_\_\_  
☒ Violation: Illegal Discharge/Illegal Connection/Improper BMPs Implementation  
☒ Stop Work Notice Issued on: Ongoing stop work Admin. citation

### RECOMMENDED CORRECTIVE ACTION

See next page for recommendations



### Construction BMP Recommendations

Site: VALENCIA SUBDIVISION

Date: 1/6/15

Recommendations: (SEE MAP ON NEXT PAGE FOR LOCATIONS)

- ① FULLY STABILIZE AREA. UTILIZE OTHER EROSION CONTROL BMPs (E.G. VISQUEPE OR EROSION CONTROL BLANKETS) IF HYDROSEED GROWTH IS NOT SUFFICIENT
- ② CLEAN OR REPLACE FILTER FABRIC
- ③ MOVE OR REMOVE STOCKPILES THAT ARE ADJACENT TO DRAIN
- ④ REPAIR GULLIES AND PREVENT CONCENTRATED FLOW TO AREA
- ⑤ REPAIR & STABILIZE SLOPE
- ⑥ USE EROSION CONTROLS TO STABILIZE EXPOSED SIDEWALLS. CONSIDER METHODS OTHER THAN HYDROSEED SINCE THERE IS EVIDENCE OF FAILURE
- ⑦ STABILIZE AREA IF INACTIVE OR RAIN IN FORECAST
- ⑧ ADD GRAVEL BAGS AT BOTTOM OF SPILLWAY
- ⑨ REPLACE GRAVEL BAGS ALONG AKINS



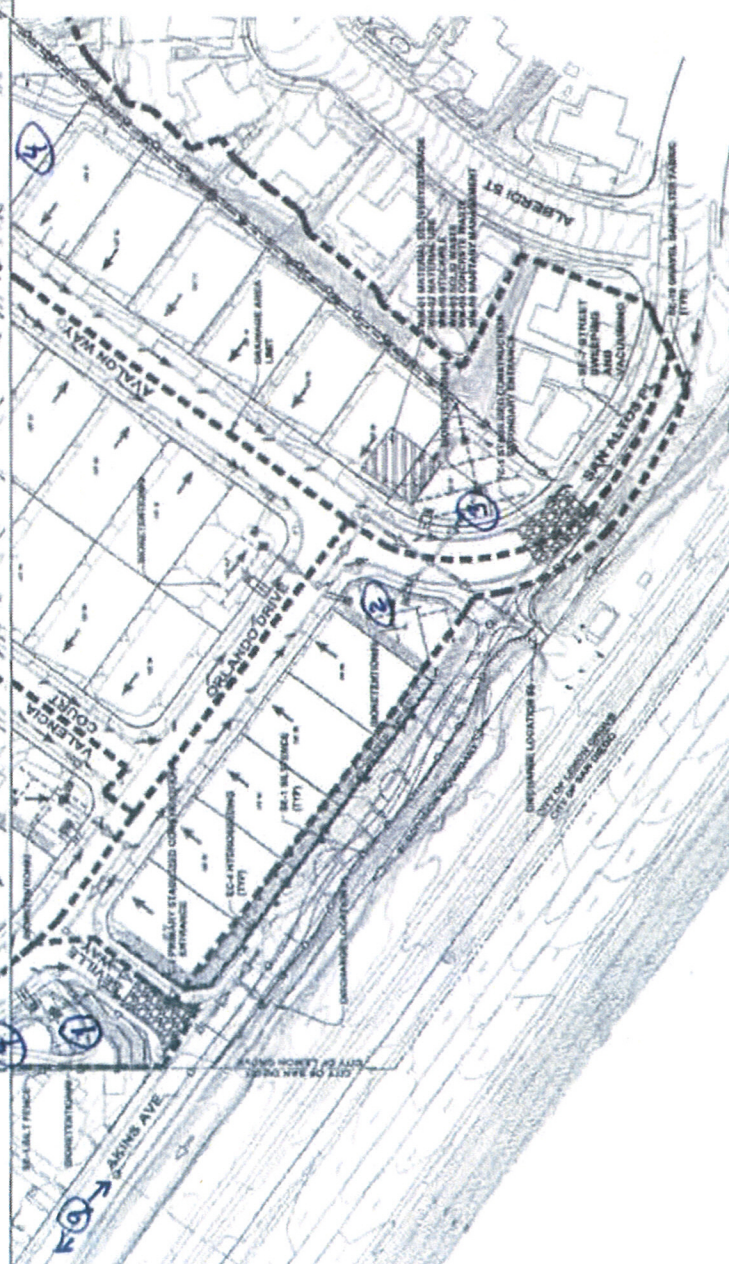
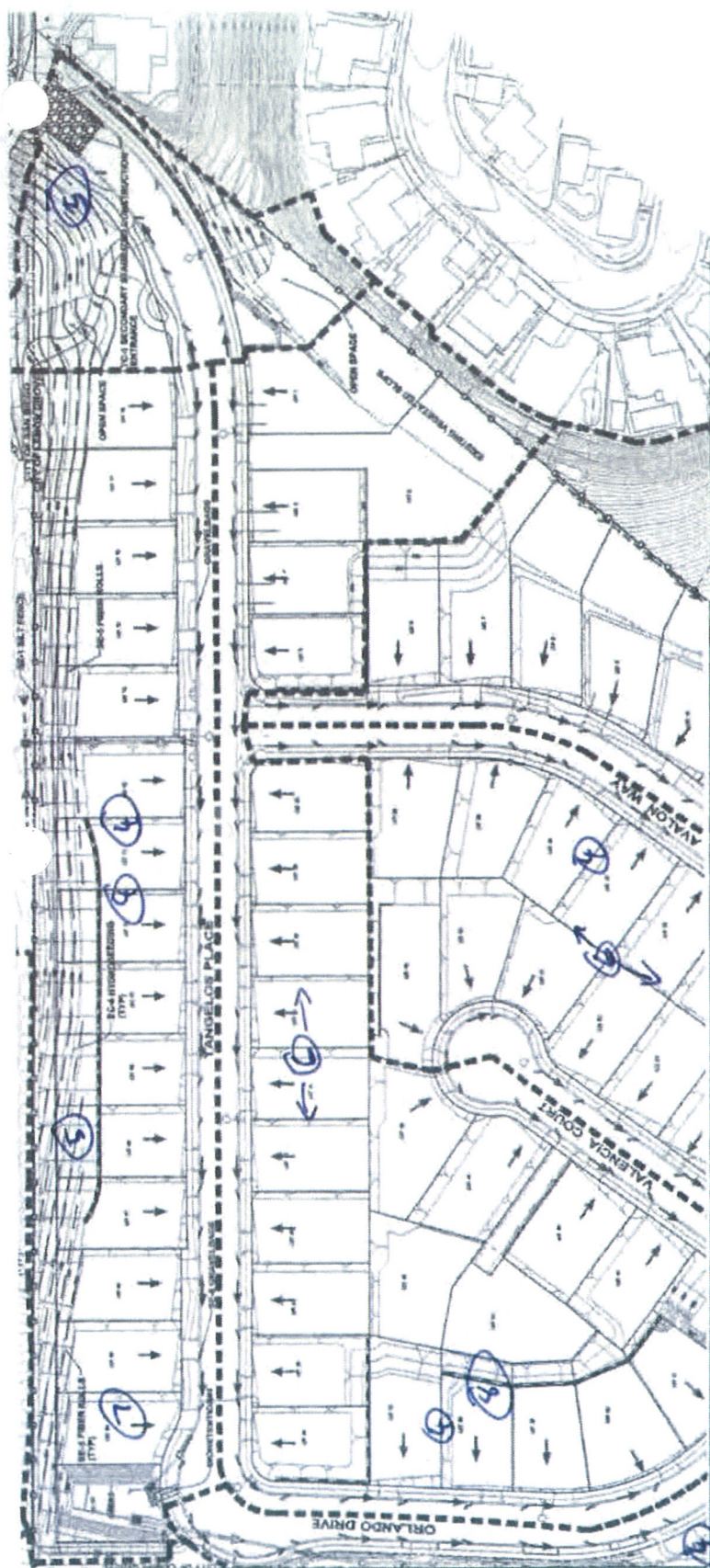






Exhibit No. 25

CITY OF LEMON GROVE  
3232 Main Street, Lemon Grove, CA 91945**NPDES STORMWATER PROGRAM  
CONSTRUCTION STORMWATER COMPLIANCE INSPECTION FORM**Inspector Name /Signature/Date/Time: TAD NAKATANI [Signature] 1/14/15 7:15AMInspection: ☐ Permit-Required Inspection ☒ Follow-up Inspection ☐ Other (Explain) \_\_\_\_\_Construction Project Priority: ☐ High ☒ Medium ☐ Low**GENERAL INFORMATION**Grading or Building Permit #: GR-1692Project Name & Type: VALENCIA SUBDIVISIONProject Location & Address: SAN ALTOS PLACEContractor's Name & Telephone #: ANDERSON DEVELOPMENT (949) 275-6739Property Owner & Telephone #: SAN ALTOS LLCIs this Project Greater than an Acre? ☒ Yes ☐ No ☐ N/AIf yes: Provide Record of Waste Discharge Identification Number (WDID#): 937C369143Does this Project have an NOI/SWPPP Available? ☒ Yes ☐ No ☐ N/AIs Weather Triggered Action Plan Completed? ☐ Yes ☐ No ☒ N/AIs Advanced Treatment Implemented Appropriately? ☐ Yes ☐ No ☒ N/AIs More than 17 Acres of Cleared or Graded Areas Left Exposed at Any Given Time? ☐ Yes ☒ No ☐ N/AIs 125% of Materials to Install Standby BMPs Available? ☒ Yes ☐ No ☐ N/AAre Routine Self-Inspections Being Conducted by Developer/Owner? ☒ Yes ☐ No ☐ N/AProject Site is in What Sub-Watershed: ☒ Chollas Creek 908.22 ☐ Sweetwater River 909.12Nearest Conveyances or Water Bodies: ENCANTO CHANNEL TO CHOLLAS CREEK

BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
<b>Soil Stabilization and Erosion Prevention</b>					
Preservation of existing vegetation?			X		
Physical Stabilization: Hydraulic Mulch, Hydroseeding, Soil Binders, Straw Mulch	X			Some areas near Abies where hydro-seeding has not grown. Some remaining gullies on edges of site.	No
Geotextiles, Plastic Covers, Erosion Prevention Blankets, Wood Mulching	X			Most sidewalks have been covered but a couple in the northern part of site lack protection.	No
Site Drainage: Outlet Protection/Slope Drain		X			
Inlet/Outlet Protection		X			
<b>Sediment Control/Containment</b>					
Perimeter Protection: Silt Fencing, Gravel Bags, Fiber Rolls	X			Broken silt fence near San Altos	No
Storm Drain inlet protection: Sediment Trap, De-silting Basin, Gravel Bag Barrier					



BMP	Yes	No	N/A	Description/Explanation	Effective Yes/No
Tracking Controls: Stabilized Entrance/Exit Road Stabilization, Tire Wash, Street Sweeping	X				Yes
<b>Materials and Equipment Management</b>					
Are materials and wastes stored in a manner that minimizes or eliminates the potential to discharge these materials to the storm drain system, is secondary containment used?	X				Yes
Are material <b>stockpiles</b> protected: covered, contained and located away from non-storm water discharges?		X		<b>wood/scrap pile</b> should be removed or protected	<b>No</b>
Are heavy equipment and vehicles parked in designated areas with permeable surface?	X				Yes
Are appropriate spill response and containment measures kept on the site?	X				Yes
Are wastes managed and stored properly (Solid, liquid, sanitary, concrete, hazardous)	X				Yes
Are concrete washouts properly installed, maintained with no evidence of discharges.	X				Yes
Is timely service and removal provided to prevent waste containers and sanitary facilities from overflowing?	X				Yes
<b>Non-Storm Water Management</b>					
Is the site free of evidence of illegal connections and/or illicit discharges?	X				Yes
<b>Discharge Locations</b>					
Are the discharge locations free of significant erosion or sediment transport?	X				Yes
<b>Other</b>					
Are there any other potential storm water pollution issues/concerns?	X			<b>stockpiles</b> are located too close to drain in NE Basin. Remove or relocate them outside of basin that discussed	<b>No</b>
Was there any employee or subcontractor training on stormwater BMPs?			X		

### VIOLATIONS

- ☐ No violations noted at time of inspection/investigation  
☐ No violations; however, recommended corrective actions required  
☐ Inspection Form as Correct Work Notice ☐ Correct Work Notice Issued on: \_\_\_\_\_  
☒ Violation: Illegal Discharge/Illegal Connection/Improper BMPs Implementation  
☒ Stop Work Notice Issued on: ongoing stop work/Admin. citation

### RECOMMENDED CORRECTIVE ACTION

see next page for recommendations

### Construction BMP Recommendations

Site: VALENCIA SUBDIVISION

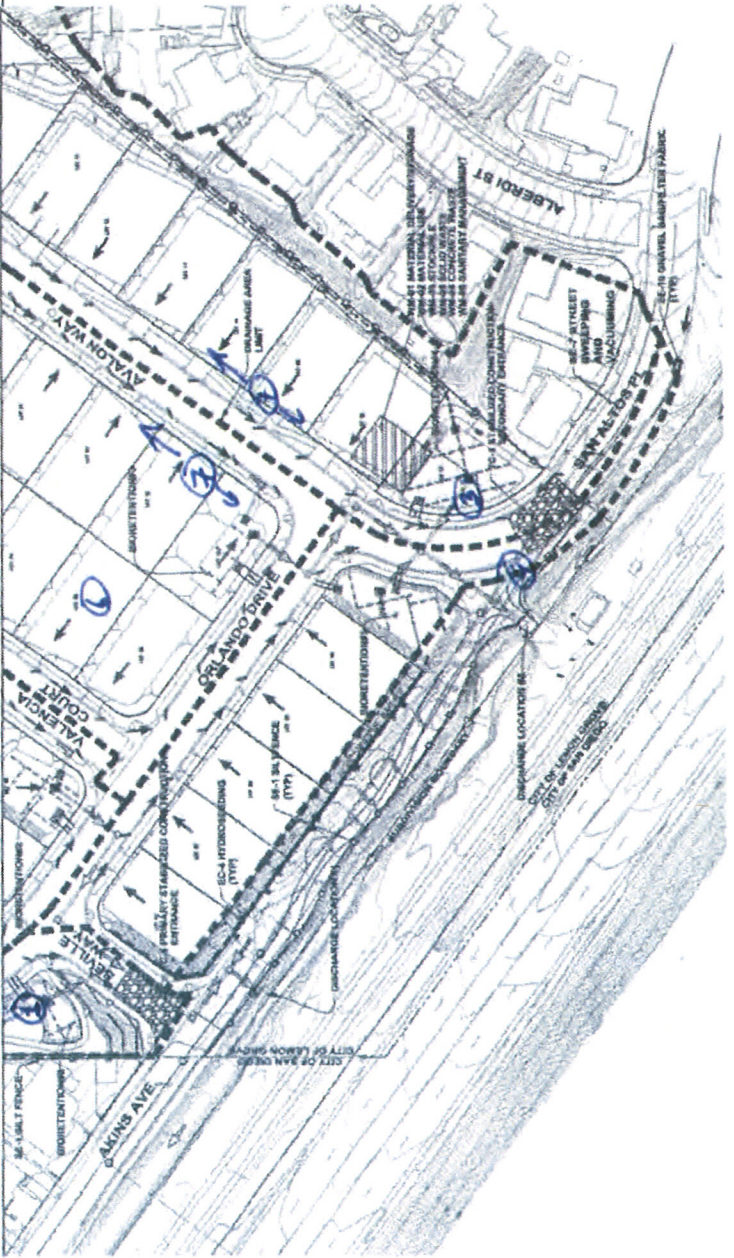
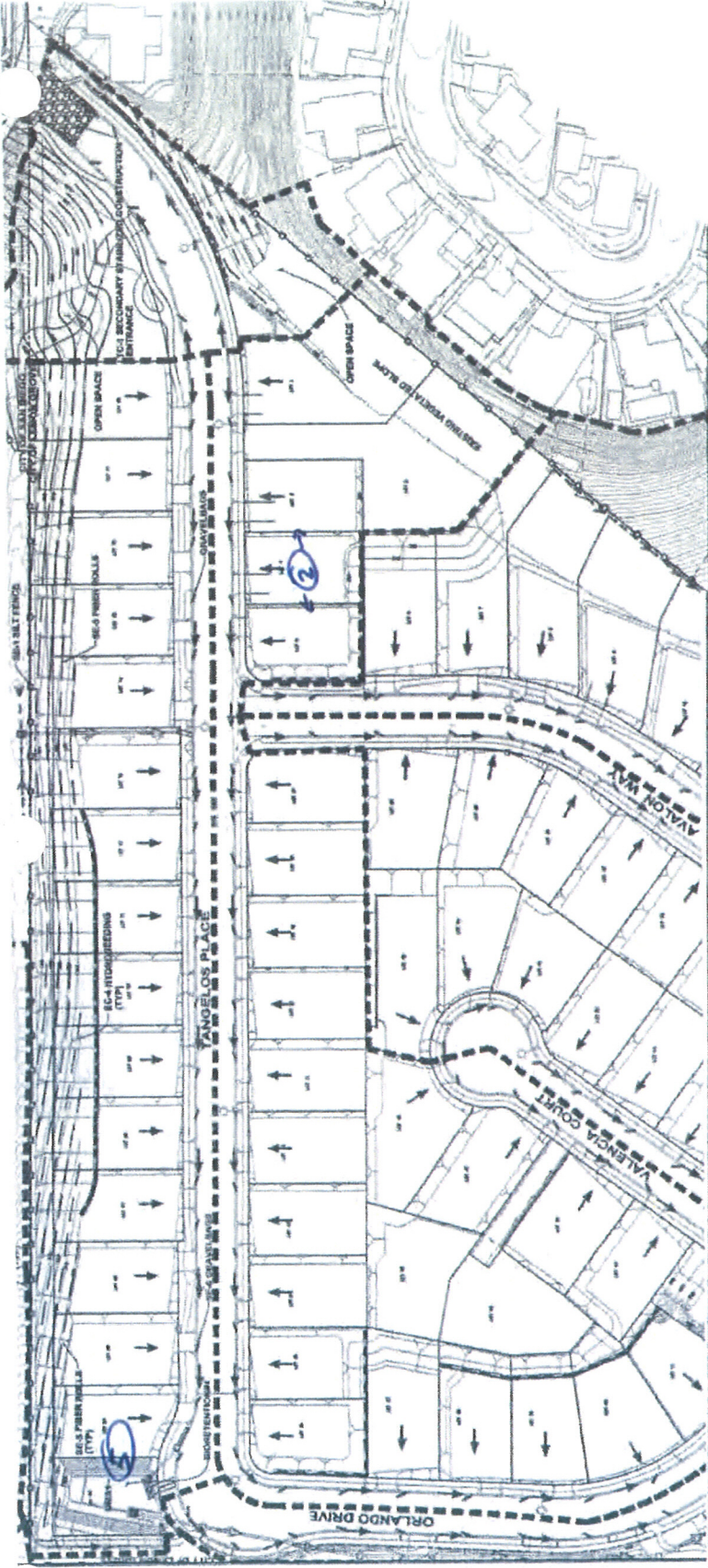
Date: 1/14/15

Recommendations:

- ① STABILIZE REMAINING SMALL AREAS THAT LACK  
FULL HYDROSEED OR VISQUENE COVER
- ② INSTALL EROSION CONTROLS ON REMAINING  
SIDEWALLS
- ③ REMOVE THE STOCKPILES THAT ARE NEAR THE  
DRAIN OR RELOCATE THEM OUTSIDE OF  
THE BASIN
- ④ REPAIR BROKEN SILT FENCE
- ⑤ STABILIZE AREA IF INACTIVE OR RAIN IN FORECAST
- ⑥ REMOVE OR PROTECT WOOD/SCRAP PILE
- ⑦ REPAIR MINOR RILLS AND PROTECT AGAINST  
CONCENTRATED FLOWS IN THE AREA



1/14/15









Erosion Sediment Control Valencia Oct 5, 2015





Erosion / sediment control Valencia Dec 5, 2015





Erosion Control / Stockpile Valencia Oct 5, 2015



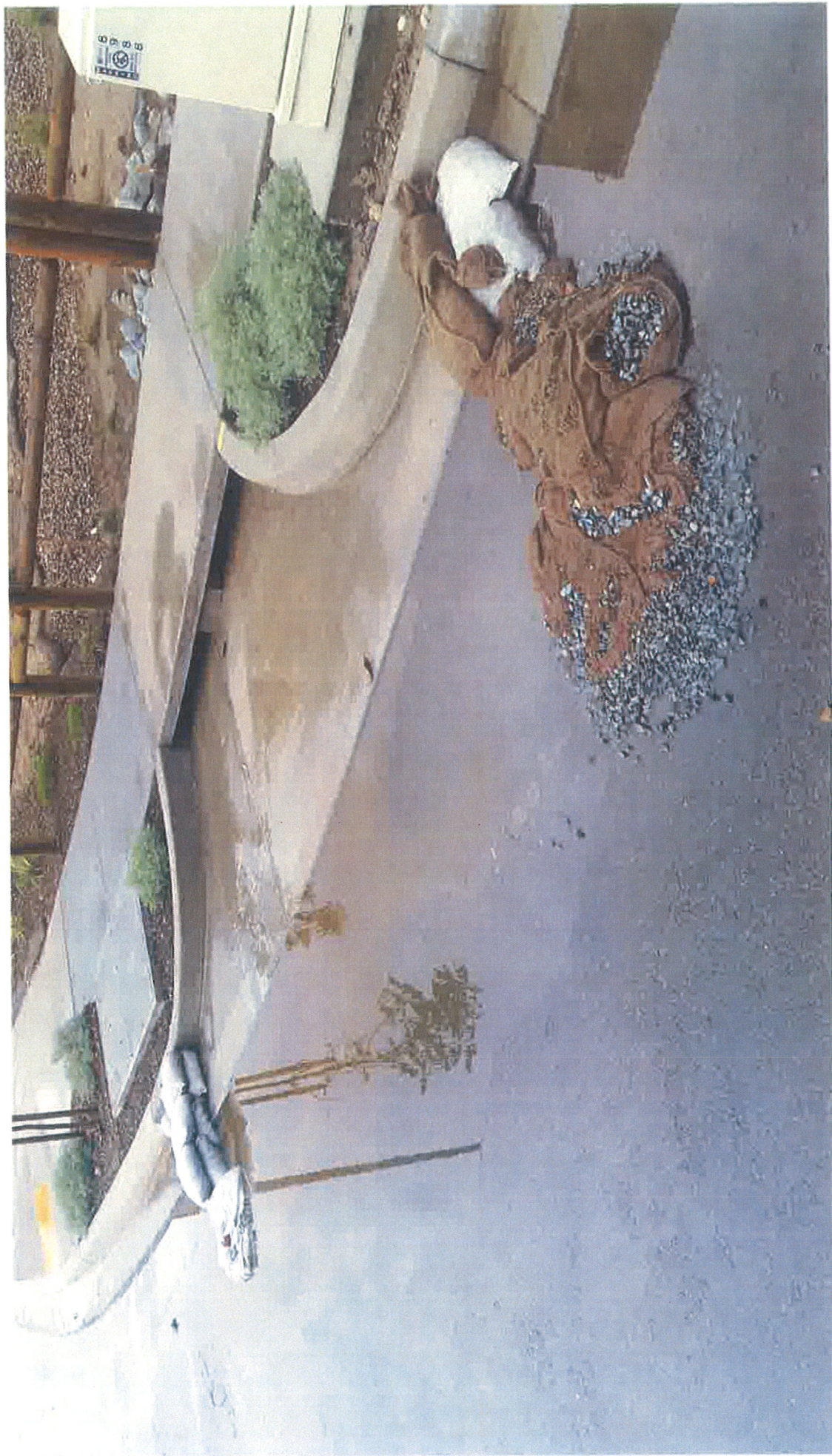


Valencia Oct 5, 2015 Failure to maintain Banks, Erosion Control





Bmp Failure Lakewood Oct 5, 2015





Erosion Control Valencia Oct 5, 2015





Penalty Methodology Decisions  
R9-2015-0110

Exhibit No. 27  
Site: Valencia Hills

Discharge Violation: Potential for Harm

Violations	Harm/Potential Harm to Beneficial Uses [0 - 5]	Physical, Chemical, Biological or Thermal Characteristics [0 - 4]	Susceptibility to Cleanup or Abatement [0 or 1]	Total Potential for Harm [0 - 10]
Violation 1	3	2	1	6

Discharge Violation

Violations	Total Potential for Harm [0 - 10]	Deviation from Requirement [minor, moderate, major]	Total per Day	Days of Violation	Statutory Max per [WC § 13385]	Culpability [0.5 - 1.5]	Cleanup and Cooperation [0.75 - 1.5]	History of Violations	Liability Amount	Economic Benefit	Liability Minimum	Liability Maximum
Violation 1	6	major	0.22	6	\$10,000	1.3	1.1	1.0	\$18,876	\$9,476	\$10,424	\$60,000

Non-Discharge Violations

Violations	Potential for Harm minor, moderate, major	Deviation from Requirement [minor, moderate, major]	Total per Day	Days of Violation	Statutory Max per [WC § 13385]	Culpability [0.5 - 1.5]	Cleanup and Cooperation [0.75 - 1.5]	History of Violations	Liability Amount	Economic Benefit	Liability Minimum	Liability Maximum
Violation 2	moderate	moderate	0.35	10	\$10,000	1.3	1.1	1.0	\$50,050	\$1,088	\$1,197	\$100,000
Violation 3	moderate	major	0.55	2	\$10,000	1.3	1.1	1.0	\$15,730	\$823	\$905	\$20,000
Violation 4	moderate	major	0.55	22	\$10,000	1.3	1.1	1.0	\$173,030	\$5,966	\$6,563	\$220,000
Violation 5	moderate	moderate	0.35	14	\$10,000	1.3	1.1	1.0	\$70,070	\$2,175	\$2,393	\$140,000
Violation 6	moderate	major	0.55	22	\$10,000	1.3	1.1	1.0	\$173,030	\$5,966	\$6,563	\$220,000
Violation 7	moderate	major	0.55	9	\$10,000	1.3	1.1	1.0	\$70,785	\$700	\$770	\$90,000
Violation 8	moderate	moderate	0.35	7	\$10,000	1.3	1.1	1.0	\$35,035	\$420	\$462	\$70,000
Violation 9	moderate	moderate	0.35	10	\$10,000	1.3	1.1	1.0	\$50,050	\$211	\$232	\$100,000
Violation 10	moderate	moderate	0.35	3	\$10,000	1.3	1.0	1.0	\$13,650	\$420	\$462	\$30,000
Violation 11	minor	moderate	0.25	9	\$10,000	1.3	1.1	1.0	\$32,175	\$315	\$347	\$90,000
Violation 12	major	moderate	0.55	7	\$10,000	1.3	1.1	1.0	\$55,055	\$1,985	\$2,184	\$70,000
Violation 13	minor	major	0.35	15	\$10,000	1.3	1.1	1.0	\$75,075	\$378	\$416	\$150,000
												\$1,360,000

Ability to Pay & Continue in Business [Yes, No, Partly, Unknown]		Other Factors as Justice May Require Costs of Investigation & Enforcement	
Yes	N/A	\$15,763	N/A

Total Liabilities	\$832,611
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Total Liability (All liabilities plus staff costs)	\$848,374
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# Exhibit No. 28

## Economic Benefit Calculation and Supporting Documentation

### San Altos Lemon Grove, LLC - Valencia Hills (Region 9 - San Diego)

**Caution:** Use this spreadsheet as an "information only tool". It is not linked to BEN and will do no calculations.

Please check with the ORPP economist Madalene Ransom (916 322-8417) before using this information to run BEN.

And, contact your OE attorney before using the BEN results in preparing an ACLC or other actions that may in any way be controversial.

Compliance Action (List the actions which would have prevented the violation)	One-Time Nondepreciable Expenditure			Annual Cost		Non-Compliance Date	Compliance Date	Penalty Payment Date	Benefit of Noncompliance
	Amount	Date <sup>1</sup>	Delayed? <sup>2</sup>	Amount	Date <sup>1</sup>				
1. Discharges: Spray three acres of bonded fiber matrix (\$4,000/acre), install 500 gravel bags (\$1/ea.) and install 1,000 feet of Fiber Rolls (\$1/ft.).	\$13,500	11/1/2009	N	\$0		12/1/2014	12/16/2015	12/16/2015	\$9,476
2. Stockpiles: Install 500 feet of fiber rolls (\$1/ft.) and 15,000 square feet (5x3,000) of plastic (\$0.07/square feet).	\$1,550	11/1/2009	N	\$0		12/2/2014	12/16/2015	12/16/2015	\$1,088
3. Vehicles: Install 5 drip pads (\$257.14 ea.).	\$1,286	1/21/2015	N	\$0		12/15/2014	12/16/2015	12/16/2015	\$823
4. Erosion Inactive: Spray two acres of bonded fiber matrix (\$4,000/acre), and install 500 gravel bags (\$1/ea.).	\$8,500	11/1/2009	N	\$0		12/1/2014	12/16/2015	12/16/2015	\$5,966
5. Perimeter Sediment BMPs: Install 500 feet of fiber rolls (\$1/ft.), 200 gravel bags (\$1/ea.), and a stabilized entrance (\$2,400 ea.).	\$3,100	11/1/2009	N	\$0		12/4/2014	5/15/2015	12/16/2015	\$2,175
6. Erosion Active: Spray two acres of bonded fiber matrix (\$4,000/acre) and install 500 feet of fiber rolls (\$1/ft.).	\$8,500	11/1/2009	N	\$0		12/1/2014	12/16/2015	12/16/2015	\$5,966
7. Linear Sediment: Install 1,000 feet of fiber rolls (\$1/ft.).	\$1,000	11/1/2009	N	\$0		12/15/2014	12/16/2015	12/16/2015	\$700
8. Run-On/Runoff: Install 500 feet of fiber rolls (\$1/ft.) and 100 gravel bags (\$1/bag).	\$600	11/1/2009	N	\$0		12/15/2014	12/16/2015	12/16/2015	\$420
9. Remove Sed Roads: Four hours of street sweeping (\$75/hr.).	\$300	11/1/2009	N	\$0		12/2/2014	12/8/2014	12/16/2015	\$211
10. Storm Drain Inlet Protection: Install and maintain inlet protection (\$200/ea.).	\$600	11/1/2009	N	\$0		12/8/2014	12/9/2014	12/16/2015	\$420
11. Waste Stockpiles: Install 175 feet fiber rolls (\$1/ft.) and 4,000 sq. ft. of plastic (\$0.07/square feet).	\$455	11/1/2009	N	\$0		1/6/2015	1/15/2015	12/16/2015	\$315
12. Chemical Storage:	\$3,213	9/2/2015	N	\$0		3/18/2015	3/25/2015	12/16/2015	\$1,985
13. Concrete Waste: Rent one concrete washout bin (delivery \$475 plus 8% fuel surcharge, and \$7/day).	\$618	9/15/2014	N	\$0		3/18/2015	3/25/2015	12/16/2015	\$378
<b>Totals</b>	<b>calculated by BEN</b>								<b>\$29,923</b>
Cost Index for Inflation:	PCI			PCI		See Table 1 below for Index choices.		Date/Time of Information:	

Income Tax Schedule:	C	See Table 2 below for choices.
Discount/Compound Rate:	7.5%	This percentage provided by BEN
Source: USEPA BEN Model:	Version 5.5.0	
Person gathering information:	Frank Melbourn	

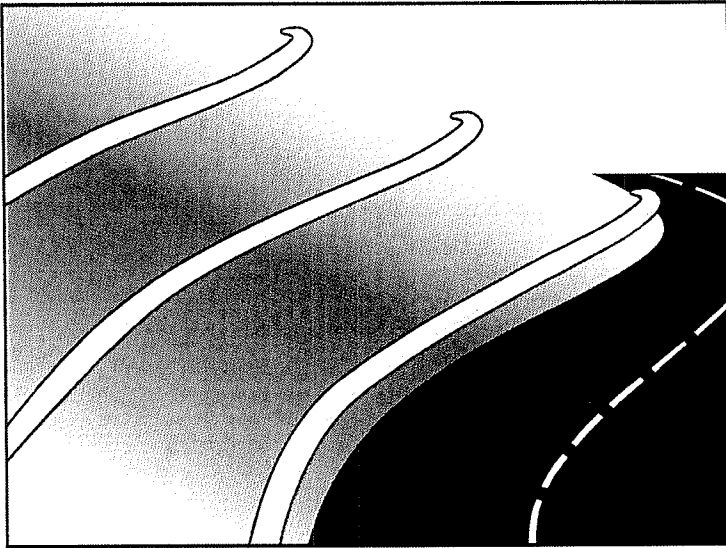
<sup>1</sup> Date cost estimate was made.

<sup>2</sup> Enter "y" if delayed, and "n" if avoided.

## Violation No. 1

Unauthorized Discharge of Sediment  
(6 days)





## Description and Purpose

A fiber roll consists of straw, coir, or other biodegradable materials bound into a tight tubular roll wrapped by netting, which can be photodegradable or natural. Additionally, gravel core fiber rolls are available, which contain an imbedded ballast material such as gravel or sand for additional weight when staking the rolls are not feasible (such as use as inlet protection). When fiber rolls are placed at the toe and on the face of slopes along the contours, they intercept runoff, reduce its flow velocity, release the runoff as sheet flow, and provide removal of sediment from the runoff (through sedimentation). By interrupting the length of a slope, fiber rolls can also reduce sheet and rill erosion until vegetation is established.

## Suitable Applications

Fiber rolls may be suitable:

- Along the toe, top, face, and at grade breaks of exposed and erodible slopes to shorten slope length and spread runoff as sheet flow.
- At the end of a downward slope where it transitions to a steeper slope.
- Along the perimeter of a project.
- As check dams in unlined ditches with minimal grade.
- Down-slope of exposed soil areas.
- At operational storm drains as a form of inlet protection.

## Categories

EC	Erosion Control	<input checked="" type="checkbox"/>
SE	Sediment Control	<input checked="" type="checkbox"/>
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

## Legend:

- ☒ Primary Category
- ☒ Secondary Category

## Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

## Potential Alternatives

- SE-1 Silt Fence
- SE-6 Gravel Bag Berm
- SE-8 Sandbag Barrier
- SE-14 Biofilter Bags



- Around temporary stockpiles.

## **Limitations**

- Fiber rolls are not effective unless trenched in and staked.
- Not intended for use in high flow situations.
- Difficult to move once saturated.
- If not properly staked and trenched in, fiber rolls could be transported by high flows.
- Fiber rolls have a very limited sediment capture zone.
- Fiber rolls should not be used on slopes subject to creep, slumping, or landslide.
- Rolls typically function for 12-24 months depending upon local conditions.

## **Implementation**

### ***Fiber Roll Materials***

- Fiber rolls should be prefabricated.
- Fiber rolls may come manufactured containing polyacrylamide (PAM), a flocculating agent within the roll. Fiber rolls impregnated with PAM provide additional sediment removal capabilities and should be used in areas with fine, clayey or silty soils to provide additional sediment removal capabilities. Monitoring may be required for these installations.
- Fiber rolls are made from weed free rice straw, flax, or a similar agricultural material bound into a tight tubular roll by netting.
- Typical fiber rolls vary in diameter from 9 in. to 20 in. Larger diameter rolls are available as well.

### ***Installation***

- Locate fiber rolls on level contours spaced as follows:
  - Slope inclination of 4:1 (H:V) or flatter: Fiber rolls should be placed at a maximum interval of 20 ft.
  - Slope inclination between 4:1 and 2:1 (H:V): Fiber Rolls should be placed at a maximum interval of 15 ft. (a closer spacing is more effective).
  - Slope inclination 2:1 (H:V) or greater: Fiber Rolls should be placed at a maximum interval of 10 ft. (a closer spacing is more effective).
- Prepare the slope before beginning installation.
- Dig small trenches across the slope on the contour. The trench depth should be 1/4 to 1/3 of the thickness of the roll, and the width should equal the roll diameter, in order to provide area to backfill the trench.

- It is critical that rolls are installed perpendicular to water movement, and parallel to the slope contour.
- Start building trenches and installing rolls from the bottom of the slope and work up.
- It is recommended that pilot holes be driven through the fiber roll. Use a straight bar to drive holes through the roll and into the soil for the wooden stakes.
- Turn the ends of the fiber roll up slope to prevent runoff from going around the roll.
- Stake fiber rolls into the trench.
  - Drive stakes at the end of each fiber roll and spaced 4 ft maximum on center.
  - Use wood stakes with a nominal classification of 0.75 by 0.75 in. and minimum length of 24 in.
- If more than one fiber roll is placed in a row, the rolls should be overlapped, not abutted.
- See typical fiber roll installation details at the end of this fact sheet.

## **Removal**

- Fiber rolls can be left in place or removed depending on the type of fiber roll and application (temporary vs. permanent installation). Typically, fiber rolls encased with plastic netting are used for a temporary application because the netting does not biodegrade. Fiber rolls used in a permanent application are typically encased with a biodegradeable material and are left in place. Removal of a fiber roll used in a permanent application can result in greater disturbance.
- Temporary installations should only be removed when up gradient areas are stabilized per General Permit requirements, and/or pollutant sources no longer present a hazard. But, they should also be removed before vegetation becomes too mature so that the removal process does not disturb more soil and vegetation than is necessary.

## **Costs**

Material costs for regular fiber rolls range from \$20 - \$30 per 25 ft roll.

Material costs for PAM impregnated fiber rolls range between 7.00-\$9.00 per linear foot, based upon vendor research.

## **Inspection and Maintenance**

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Repair or replace split, torn, unraveling, or slumping fiber rolls.
- If the fiber roll is used as a sediment capture device, or as an erosion control device to maintain sheet flows, sediment that accumulates in the BMP should be periodically removed



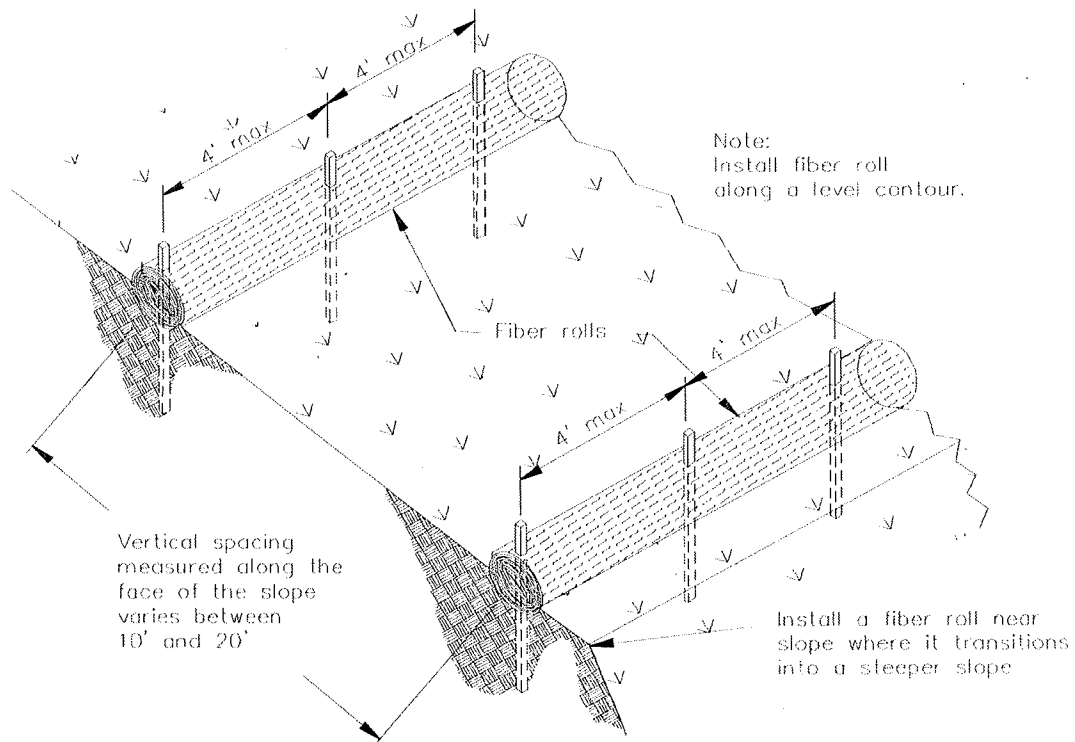
in order to maintain BMP effectiveness. Sediment should be removed when sediment accumulation reaches one-third the designated sediment storage depth.

- If fiber rolls are used for erosion control, such as in a check dam, sediment removal should not be required as long as the system continues to control the grade. Sediment control BMPs will likely be required in conjunction with this type of application.
- Repair any rills or gullies promptly.

## References

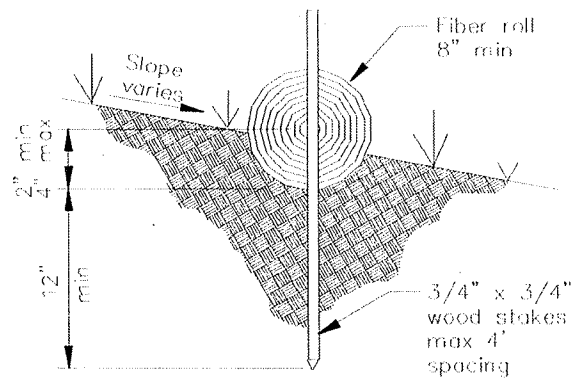
Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Erosion and Sediment Control Manual, Oregon Department of Environmental Quality, February 2005.



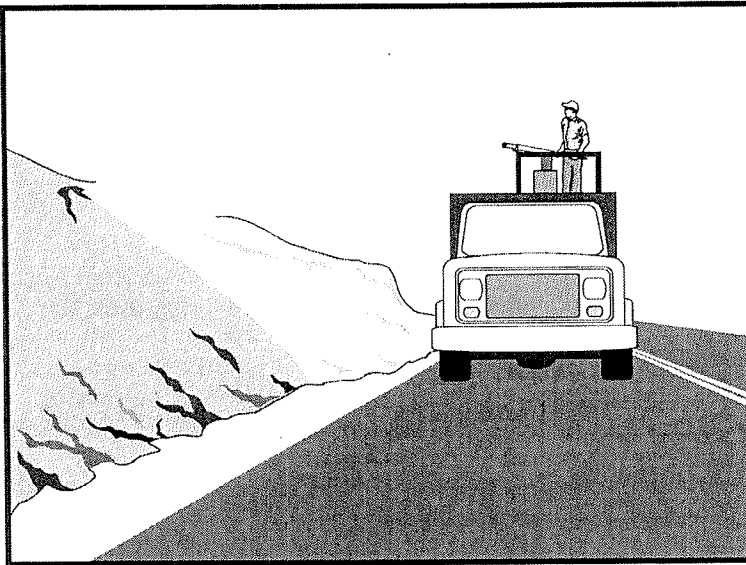
TYPICAL FIBER ROLL INSTALLATION

N.T.S.



ENTRENCHMENT DETAIL

N.T.S.



### Categories

EC	Erosion Control	<input checked="" type="checkbox"/>
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	<input checked="" type="checkbox"/>
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

### Legend:

- ☒ Primary Category
- ☒ Secondary Category

### Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

### Potential Alternatives

- EC-4 Hydroseeding
- EC-5 Soil Binders
- EC-6 Straw Mulch
- EC-7 Geotextiles and Mats
- EC-8 Wood Mulching
- EC-14 Compost Blanket
- EC-16 Non-Vegetative Stabilization

### Description and Purpose

Hydraulic Mulch consists of various types of fibrous materials mixed with water and sprayed onto the soil surface in slurry form to provide a layer of temporary protection from wind and water erosion.

### Suitable Applications

Hydraulic mulch as a temporary, stand alone, erosion control BMP is suitable for disturbed areas that require temporary protection from wind and water erosion until permanent soil stabilization activities commence. Examples include:

- Rough-graded areas that will remain inactive for longer than permit-required thresholds (e.g., 14 days) or otherwise require stabilization to minimize erosion or prevent sediment discharges.
- Soil stockpiles.
- Slopes with exposed soil between existing vegetation such as trees or shrubs.
- Slopes planted with live, container-grown vegetation or plugs.
- Slopes burned by wildfire.

Hydraulic mulch can also be applied to augment other erosion control BMPs such as:





- In conjunction with straw mulch (see EC-6 Straw Mulch) where the rate of hydraulic mulch is reduced to 100-500 lbs per acre and the slurry is applied over the straw as a tackifying agent to hold the straw in place.
- Supplemental application of soil amendments, such as fertilizer, lime, gypsum, soil bio-stimulants or compost.

## Limitations

In general, hydraulic mulch is not limited by slope length, gradient or soil type. However, the following limitations typically apply:

- Most hydraulic mulch applications, particularly bonded fiber matrices (BFMs), require at least 24 hours to dry before rainfall occurs.
- Temporary applications (i.e., without a vegetative component) may require a second application in order to remain effective for an entire rainy season.
- Treatment areas must be accessible to hydraulic mulching equipment.
- Availability of water sources in remote areas for mixing and application.
- As a stand-alone temporary BMP, hydraulic mulches may need to be re-applied to maintain their erosion control effectiveness, typically after 6-12 months depending on the type of mulch used.
- Availability of hydraulic mulching equipment may be limited just prior to the rainy season and prior to storms due to high demand.
- Cellulose fiber mulches alone may not perform well on steep slopes or in coarse soils.

## Implementation

- Where feasible, it is preferable to prepare soil surfaces prior to application by roughening embankments and fill areas with a crimping or punching type roller or by track walking.
- The majority of hydraulic mulch applications do not necessarily require surface/soil preparation (See EC-15 Soil Preparation) although in almost every case where re-vegetation is included as part of the practice, soil preparation can be beneficial. One of the advantages of hydraulic mulch over other erosion control methods is that it can be applied in areas where soil preparation is precluded by site conditions, such as steep slopes, rocky soils, or inaccessibility.
- Avoid mulch over spray onto roads, sidewalks, drainage channels, existing vegetation, etc.
- Hydraulic mulching is generally performed utilizing specialized machines that have a large water-holding/mixing tank and some form of mechanical agitation or other recirculation method to keep water, mulch and soil amendments in suspension. The mixed hydraulic slurry can be applied from a tower sprayer on top of the machine or by extending a hose to areas remote from the machine.

- Where possible apply hydraulic mulch from multiple directions to adequately cover the soil. Application from a single direction can result in shadowing, uneven coverage and failure of the BMP.
- Hydraulic mulch can also include a vegetative component, such as seed, rhizomes, or stolons (see EC-4 Hydraulic Seed).
- Typical hydraulic mulch application rates range from 2,000 pounds per acre for standard mulches (SMs) to 3,500 pounds per acre for BFMs. However, the required amount of hydraulic mulch to provide adequate coverage of exposed topsoil may appear to exceed the standard rates when the roughness of the soil surface is changed due to soil preparation methods (see EC-15 Soil Preparation) or by slope gradient.
- Other factors such as existing soil moisture and soil texture can have a profound effect on the amount of hydraulic mulch required (i.e. application rate) applied to achieve an erosion-resistant covering.
- Avoid use of mulch without a tackifier component, especially on slopes.
- Mulches used in the hydraulic mulch slurry can include:
  - Cellulose fiber
  - Thermally-processed wood fibers
  - Cotton
  - Synthetics
  - Compost (see EC-14, Compost Blanket)
- Additional guidance on the comparison and selection of temporary slope stabilization methods is provided in Appendix F of the Handbook.

### Categories of Hydraulic Mulches

#### Standard Hydraulic Mulch (SM)

Standard hydraulic mulches are generally applied at a rate of 2,000 pounds per acre and are manufactured containing around 5% tackifier (i.e. soil binder), usually a plant-derived guar or psyllium type. Most standard mulches are green in color derived from food-color based dyes.

#### Hydraulic Matrices (HM) and Stabilized Fiber Matrices (SFM)

Hydraulic matrices and stabilized fiber matrices are slurries which contain increased levels of tackifiers/soil binders; usually 10% or more by weight. HMs and SFMs have improved performance compared to a standard hydraulic mulch (SM) because of the additional percentage of tackifier and because of their higher application rates, typically 2,500 – 4,000 pounds per acre. Hydraulic matrices can include a mixture of fibers, for example, a 50/50 blend of paper and wood fiber. In the case of an SFM, the tackifier/soil binder is specified as a polyacrylamide (PAM).

## Bonded Fiber Matrix (BFM)

Bonded fiber matrices (BFMs) are hydraulically-applied systems of fibers, adhesives (typically guar based) and chemical cross-links. Upon drying, the slurry forms an erosion-resistant blanket that prevents soil erosion and promotes vegetation establishment. The cross-linked adhesive in the BFM should be biodegradable and should not dissolve or disperse upon re-wetting. BFMs are typically applied at rates from 3,000 to 4,000 lbs/acre based on the manufacturer's recommendation. BFMs should not be applied immediately before, during or immediately after rainfall or if the soil is saturated. Depending on the product, BFMs typically require 12 to 24 hours to dry and become effective.

## Mechanically-Bonded Fiber Matrices (MBFM)

Mechanically-bonded fiber matrices (MBFMs) are hydraulically applied systems similar to BFM that use crimped synthetic fibers and PAM and are typically applied to a slope at a higher application rate than a standard BFM.

## Hydraulic Compost Matrix (HCM)

Hydraulic compost matrix (HCM) is a field-derived practice whereby finely graded or sifted compost is introduced into the hydraulic mulch slurry. A guar-type tackifier can be added for steeper slope applications as well as any specified seed mixtures. A HCM can help to accelerate seed germination and growth. HCMs are particularly useful as an in-fill for three-dimensional re-vegetation geocomposites, such as turf reinforcement mats (TRM) (see EC-7 Geotextiles and Mats).

## **Costs**

Average installed costs for hydraulic mulch categories are provided in Table 1, below.

**Table 1**  
**HYDRAULIC MULCH BMPs**  
**INSTALLED COSTS**

BMP	Installed Cost/Acre
Standard Hydraulic Mulching (SM)	\$1,700 - \$3,600 per acre
Hydraulic Matrices (HM) and Stabilized Fiber Matrices	
Guar-based	\$2,000 - \$4,000 per acre
PAM-based	\$2,500 - \$5,610 per acre
Bonded Fiber Matrix (BFM)	\$3,900 - \$6,900 per acre
Mechanically Bonded Fiber Matrix (MBFM)	\$4,500 - \$6,000 per acre
Hydraulic Compost Matrix (HCM)	\$3,000 - \$3,500 per acre

Source: Caltrans Soil Stabilization BMP Research for Erosion and Sediment Controls, July 2007

## **Inspection and Maintenance**

- Maintain an unbroken, temporary mulched ground cover throughout the period of construction when the soils are not being reworked.
- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected



weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.

- Areas where erosion is evident should be repaired and BMPs re-applied as soon as possible. Care should be exercised to minimize the damage to protected areas while making repairs, as any area damaged will require re-application of BMPs.
- Compare the number of bags or weight of applied mulch to the area treated to determine actual application rates and compliance with specifications.

## References

Soil Stabilization BMP Research for Erosion and Sediment Controls: Cost Survey Technical Memorandum, State of California Department of Transportation (Caltrans), July 2007.

Controlling Erosion of Construction Sites, Agricultural Information #347, U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS) (formerly Soil Conservation Service – SCS).

Guides for Erosion and Sediment Control in California, USDA Soils Conservation Service, January 1991.

Manual of Standards of Erosion and Sediment Control Measures, Association of Bay Area Governments, May 1995.

Sedimentation and Erosion Control, An Inventory of Current Practices Draft, US EPA, April 1990.

Soil Erosion by Water, Agriculture Information Bulletin #513, U.S. Department of Agriculture, Soil Conservation Service.

Stormwater Quality Handbooks Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

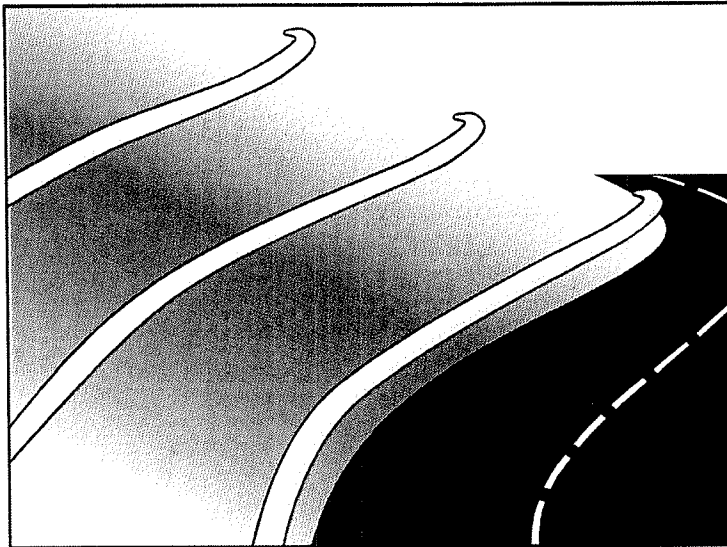
Guidance Document: Soil Stabilization for Temporary Slopes, State of California Department of Transportation (Caltrans), November 1999

Stormwater Management of the Puget Sound Basin, Technical Manual, Publication #91-75, Washington State Department of Ecology, February 1992.

Water Quality Management Plan for the Lake Tahoe Region, Volume II, Handbook of Management Practices, Tahoe Regional Planning Agency, November 1988.

## Violation No. 2

Failure to Implement Material Stockpile BMPs  
(10 days)



## Description and Purpose

A fiber roll consists of straw, coir, or other biodegradable materials bound into a tight tubular roll wrapped by netting, which can be photodegradable or natural. Additionally, gravel core fiber rolls are available, which contain an imbedded ballast material such as gravel or sand for additional weight when staking the rolls are not feasible (such as use as inlet protection). When fiber rolls are placed at the toe and on the face of slopes along the contours, they intercept runoff, reduce its flow velocity, release the runoff as sheet flow, and provide removal of sediment from the runoff (through sedimentation). By interrupting the length of a slope, fiber rolls can also reduce sheet and rill erosion until vegetation is established.

## Suitable Applications

Fiber rolls may be suitable:

- Along the toe, top, face, and at grade breaks of exposed and erodible slopes to shorten slope length and spread runoff as sheet flow.
- At the end of a downward slope where it transitions to a steeper slope.
- Along the perimeter of a project.
- As check dams in unlined ditches with minimal grade.
- Down-slope of exposed soil areas.
- At operational storm drains as a form of inlet protection.

## Categories

EC	Erosion Control	<input checked="" type="checkbox"/>
SE	Sediment Control	<input checked="" type="checkbox"/>
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

## Legend:

- ☒ Primary Category
- ☒ Secondary Category

## Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

## Potential Alternatives

- SE-1 Silt Fence
- SE-6 Gravel Bag Berm
- SE-8 Sandbag Barrier
- SE-14 Biofilter Bags





- Around temporary stockpiles.

## Limitations

- Fiber rolls are not effective unless trenched in and staked.
- Not intended for use in high flow situations.
- Difficult to move once saturated.
- If not properly staked and trenched in, fiber rolls could be transported by high flows.
- Fiber rolls have a very limited sediment capture zone.
- Fiber rolls should not be used on slopes subject to creep, slumping, or landslide.
- Rolls typically function for 12-24 months depending upon local conditions.

## Implementation

### *Fiber Roll Materials*

- Fiber rolls should be prefabricated.
- Fiber rolls may come manufactured containing polyacrylamide (PAM), a flocculating agent within the roll. Fiber rolls impregnated with PAM provide additional sediment removal capabilities and should be used in areas with fine, clayey or silty soils to provide additional sediment removal capabilities. Monitoring may be required for these installations.
- Fiber rolls are made from weed free rice straw, flax, or a similar agricultural material bound into a tight tubular roll by netting.
- Typical fiber rolls vary in diameter from 9 in. to 20 in. Larger diameter rolls are available as well.

### *Installation*

- Locate fiber rolls on level contours spaced as follows:
  - Slope inclination of 4:1 (H:V) or flatter: Fiber rolls should be placed at a maximum interval of 20 ft.
  - Slope inclination between 4:1 and 2:1 (H:V): Fiber Rolls should be placed at a maximum interval of 15 ft. (a closer spacing is more effective).
  - Slope inclination 2:1 (H:V) or greater: Fiber Rolls should be placed at a maximum interval of 10 ft. (a closer spacing is more effective).
- Prepare the slope before beginning installation.
- Dig small trenches across the slope on the contour. The trench depth should be 1/4 to 1/3 of the thickness of the roll, and the width should equal the roll diameter, in order to provide area to backfill the trench.

- It is critical that rolls are installed perpendicular to water movement, and parallel to the slope contour.
- Start building trenches and installing rolls from the bottom of the slope and work up.
- It is recommended that pilot holes be driven through the fiber roll. Use a straight bar to drive holes through the roll and into the soil for the wooden stakes.
- Turn the ends of the fiber roll up slope to prevent runoff from going around the roll.
- Stake fiber rolls into the trench.
  - Drive stakes at the end of each fiber roll and spaced 4 ft maximum on center.
  - Use wood stakes with a nominal classification of 0.75 by 0.75 in. and minimum length of 24 in.
- If more than one fiber roll is placed in a row, the rolls should be overlapped, not abutted.
- See typical fiber roll installation details at the end of this fact sheet.

## **Removal**

- Fiber rolls can be left in place or removed depending on the type of fiber roll and application (temporary vs. permanent installation). Typically, fiber rolls encased with plastic netting are used for a temporary application because the netting does not biodegrade. Fiber rolls used in a permanent application are typically encased with a biodegradeable material and are left in place. Removal of a fiber roll used in a permanent application can result in greater disturbance.
- Temporary installations should only be removed when up gradient areas are stabilized per General Permit requirements, and/or pollutant sources no longer present a hazard. But, they should also be removed before vegetation becomes too mature so that the removal process does not disturb more soil and vegetation than is necessary.

## **Costs**

Material costs for regular fiber rolls range from \$20 - \$30 per 25 ft roll.

Material costs for PAM impregnated fiber rolls range between 7.00-\$9.00 per linear foot, based upon vendor research.

## **Inspection and Maintenance**

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Repair or replace split, torn, unraveling, or slumping fiber rolls.
- If the fiber roll is used as a sediment capture device, or as an erosion control device to maintain sheet flows, sediment that accumulates in the BMP should be periodically removed

in order to maintain BMP effectiveness. Sediment should be removed when sediment accumulation reaches one-third the designated sediment storage depth.

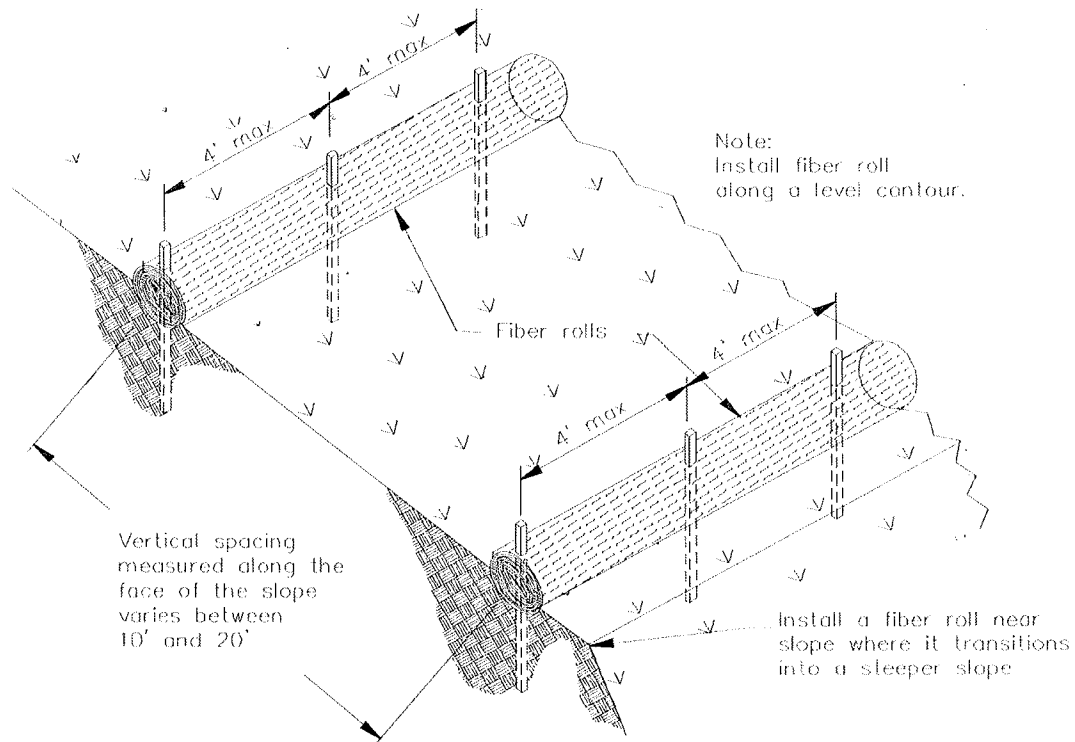
- If fiber rolls are used for erosion control, such as in a check dam, sediment removal should not be required as long as the system continues to control the grade. Sediment control BMPs will likely be required in conjunction with this type of application.
- Repair any rills or gullies promptly.

## References

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

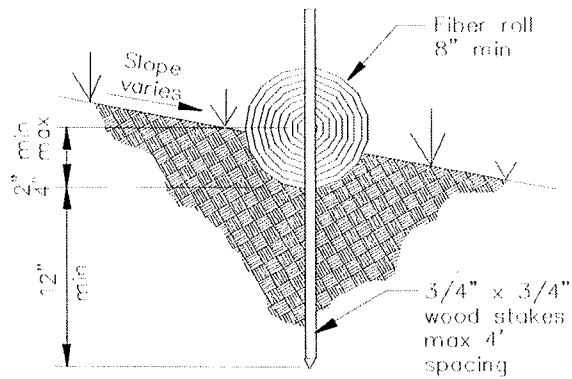
Erosion and Sediment Control Manual, Oregon Department of Environmental Quality, February 2005.





TYPICAL FIBER ROLL INSTALLATION

N.T.S.



ENTRENCHMENT DETAIL

N.T.S.

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[Home](#) ▸ [Paint](#) ▸ [Drop Cloths & Plastic Sheeting](#) ▸ **Poly Film****Polar Plastics 6-Mil Clear Poly Reinforced Plastic Sheeting - 20' x 50' Roll**Model Number: 5680090 | Menards® SKU: 5680090  
Variation: ClearOnline Price ⓘ  
**\$74.98****Description** ▾Add to  
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Hover to zoom in.**Description & Documents**

For everything from simple dust protection to heavy-duty construction projects, Polar Plastics has a fitting solution. Their strong, durable plastics come in a variety of sizes, thicknesses and colors to perfectly meet the requirements of your project. This reinforced sheeting is the epitome of strength when it comes to plastic sheeting. With two layers of low-density polyethylene and hundreds of nylon strings forming a diamond scrim pattern, this sheeting makes a great long-term cover for heavy-duty equipment or the perfect dust and debris shield. Use as much or as little as you need!

- Two layers of low-density polyethylene with nylon strings running through and between
- Reinforced diamond scrim pattern is ideal for heavy-duty applications
- Commonly used for building enclosures, crawl spaces and as a long-lasting equipment cover
- Reinforced design stops tears and punctures
- Perfect for weather, water and dust protection
- Made in USA
- 6-mil thickness is the nominal size

**Dimensions:** 20' x 50'**MSDS Document:** [101025\\_001.pdf](#) [106044\\_001.pdf](#)

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**Please Note:** Prices, promotions, styles and availability may vary by store and online. While we do our best to provide accurate item availability information, we cannot guarantee in-stock status and availability as inventory is sold and received continuously throughout the day. Inventory last updated 8/17/2015 at 5:00am EST. Online orders and products purchased in-store qualify for rebate redemption. Rebates are provided in the form of a merchandise credit check which can only be used in a Menards® store.

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### Violation No. 3

Failure to Implement Vehicle Fluid Leak BMPs  
(2 days)



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### Drip Pillow Berm™

Capture small leaks and drips easily



Have a small leak, drip or spill? Our Drip Pillow Berm comes in four sizes to capture small leaks and drips and with its stable weighted base, it will not tip or splash in windy conditions if used outdoors. Grommets in the corners provide attachment points. Eliminates nuisance drips under vehicles, hydraulic lines or equipment.

Weighted unit can withstand up to 40 mph winds

Folds easy for storage or transport

Measures 38"L x 42"W x 3"H



Absorbs 4 gallons

Weighs 7 lbs

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#### Select Product

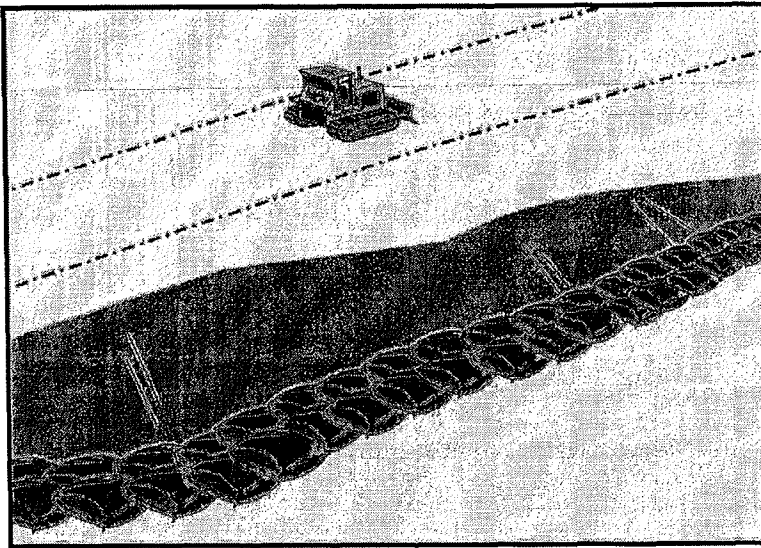
Drip Pillow Berm™						
Preview	Item Number	Description	Units	Price Per Unit		QTY
	BERM404	Drip Pillow Berm	Each	1+ \$300.00	4+ \$257.14	 In Stock

## Violation No. 4

Failure to Implement Erosion Control BMPs in  
Inactive Areas  
(22 days)

# Sandbag Barrier

SE-8



## Categories

EC	Erosion Control	<input checked="" type="checkbox"/>
SE	Sediment Control	<input checked="" type="checkbox"/>
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

## Legend:

- ☒ Primary Category
- ☒ Secondary Category

## Description and Purpose

A sandbag barrier is a series of sand-filled bags placed on a level contour to intercept or to divert sheet flows. Sandbag barriers placed on a level contour pond sheet flow runoff, allowing sediment to settle out.

## Suitable Applications

Sandbag barriers may be suitable:

- As a linear sediment control measure:
  - Below the toe of slopes and erodible slopes.
  - As sediment traps at culvert/pipe outlets.
  - Below other small cleared areas.
  - Along the perimeter of a site.
  - Down slope of exposed soil areas.
  - Around temporary stockpiles and spoil areas.
  - Parallel to a roadway to keep sediment off paved areas.
  - Along streams and channels.
- As linear erosion control measure:
  - Along the face and at grade breaks of exposed and erodible slopes to shorten slope length and spread runoff as sheet flow.

## Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

## Potential Alternatives

- SE-1 Silt Fence
- SE-5 Fiber Rolls
- SE-6 Gravel Bag Berm
- SE-14 Biofilter Bags





- At the top of slopes to divert runoff away from disturbed slopes.
- As check dams across mildly sloped construction roads.

## Limitations

- It is necessary to limit the drainage area upstream of the barrier to 5 acres.
- Sandbags are not intended to be used as filtration devices.
- Easily damaged by construction equipment.
- Degraded sandbags may rupture when removed, spilling sand.
- Sand is easily transported by runoff if bag is damaged or ruptured.
- Installation can be labor intensive.
- Durability of sandbags is somewhat limited and bags may need to be replaced when installation is required for longer than 6 months. When used to detain concentrated flows, maintenance requirements increase.
- Burlap should not be used for sandbags.

## Implementation

### General

A sandbag barrier consists of a row of sand-filled bags placed on a level contour. When appropriately placed, a sandbag barrier intercepts and slows sheet flow runoff, causing temporary ponding. The temporary ponding allows sediment to settle. Sand-filled bags have limited porosity, which is further limited as the fine sand tends to quickly plug with sediment, limiting or completely blocking the rate of flow through the barrier. If a porous barrier is desired, consider SE-1, Silt Fence, SE-5, Fiber Rolls, SE-6, Gravel Bag Berms or SE-14, Biofilter Bags. Sandbag barriers also interrupt the slope length and thereby reduce erosion by reducing the tendency of sheet flows to concentrate into rivulets which erode rills, and ultimately gullies, into disturbed, sloped soils. Sandbag barriers are similar to gravel bag berms, but less porous. Generally, sandbag barriers should be used in conjunction with temporary soil stabilization controls up slope to provide effective erosion and sediment control.

### Design and Layout

- Locate sandbag barriers on a level contour.
- When used for slope interruption, the following slope/sheet flow length combinations apply:
  - Slope inclination of 4:1 (H:V) or flatter: Sandbags should be placed at a maximum interval of 20 ft, with the first row near the slope toe.
  - Slope inclination between 4:1 and 2:1 (H:V): Sandbags should be placed at a maximum interval of 15 ft. (a closer spacing is more effective), with the first row near the slope toe.

Slope inclination 2:1 (H:V) or greater: Sandbags should be placed at a maximum interval of 10 ft. (a closer spacing is more effective), with the first row near the slope toe.

- Turn the ends of the sandbag barrier up slope to prevent runoff from going around the barrier.
- Allow sufficient space up slope from the barrier to allow ponding, and to provide room for sediment storage.
- For installation near the toe of the slope, sand bag barriers should be set back from the slope toe to facilitate cleaning. Where specific site conditions do not allow for a set-back, the sand bag barrier may be constructed on the toe of the slope. To prevent flows behind the barrier, bags can be placed perpendicular to a berm to serve as cross barriers.
- Drainage area should not exceed 5 acres.
- Stack sandbags at least three bags high.
- Butt ends of bags tightly.
- Overlap butt joints of row beneath with each successive row.
- Use a pyramid approach when stacking bags.
- In non-traffic areas
  - Height = 18 in. maximum
  - Top width = 24 in. minimum for three or more layer construction
  - Side slope = 2:1 (H:V) or flatter
- In construction traffic areas
  - Height = 12 in. maximum
  - Top width = 24 in. minimum for three or more layer construction.
  - Side slopes = 2:1 (H:V) or flatter.
- See typical sandbag barrier installation details at the end of this fact sheet.

## Materials

- **Sandbag Material:** Sandbag should be woven polypropylene, polyethylene or polyamide fabric, minimum unit weight of 4 ounces/yd<sup>2</sup>, Mullen burst strength exceeding 300 lb/in<sup>2</sup> in conformance with the requirements in ASTM designation D3786, and ultraviolet stability exceeding 70% in conformance with the requirements in ASTM designation D4355. Use of burlap is not an acceptable substitute, as sand can more easily mobilize out of burlap.
- **Sandbag Size:** Each sand-filled bag should have a length of 18 in., width of 12 in., thickness of 3 in., and mass of approximately 33 lbs. Bag dimensions are nominal, and may vary based on locally available materials.

- **Fill Material:** All sandbag fill material should be non-cohesive, Class 3 (Caltrans Standard Specification, Section 25) permeable material free from clay and deleterious material, such as recycled concrete or asphalt..

## Costs

Empty sandbags cost \$0.25 - \$0.75. Average cost of fill material is \$8 per yd<sup>3</sup>. Additional labor is required to fill the bags. Pre-filled sandbags are more expensive at \$1.50 - \$2.00 per bag. These costs are based upon vendor research.

## Inspection and Maintenance

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Sandbags exposed to sunlight will need to be replaced every two to three months due to degradation of the bags.
- Reshape or replace sandbags as needed.
- Repair washouts or other damage as needed.
- Sediment that accumulates behind the BMP should be periodically removed in order to maintain BMP effectiveness. Sediment should be removed when the sediment accumulation reaches one-third of the barrier height.
- Remove sandbags when no longer needed and recycle sand fill whenever possible and properly dispose of bag material. Remove sediment accumulation, and clean, re-grade, and stabilize the area.

## References

Standard Specifications for Construction of Local Streets and Roads, California Department of Transportation (Caltrans), July 2002.

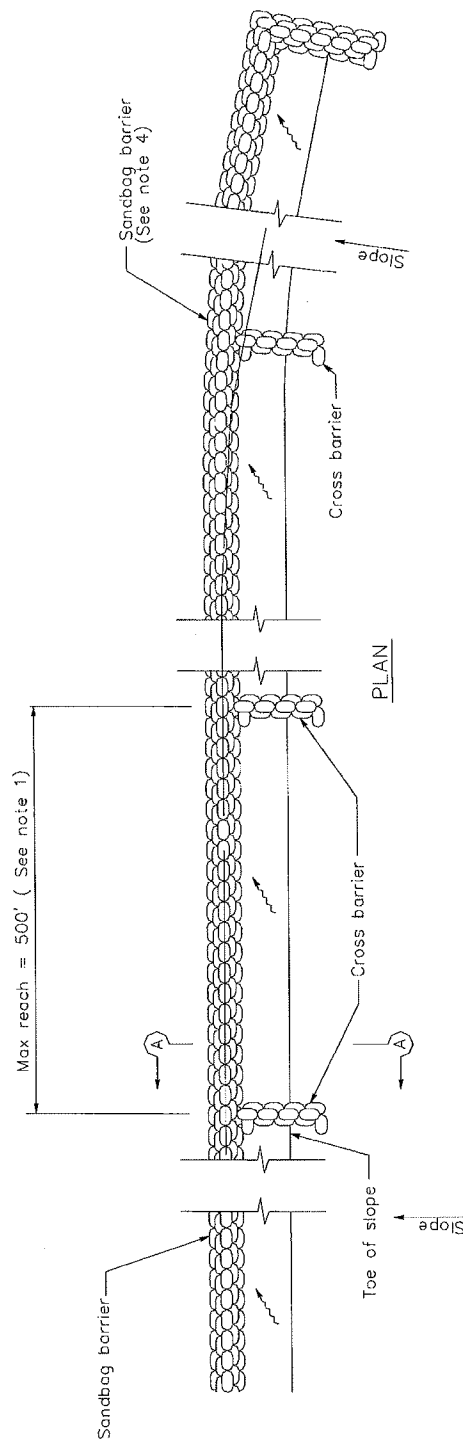
Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Erosion and Sediment Control Manual, Oregon Department of Environmental Quality, February 2005.



# Sandbag Barrier

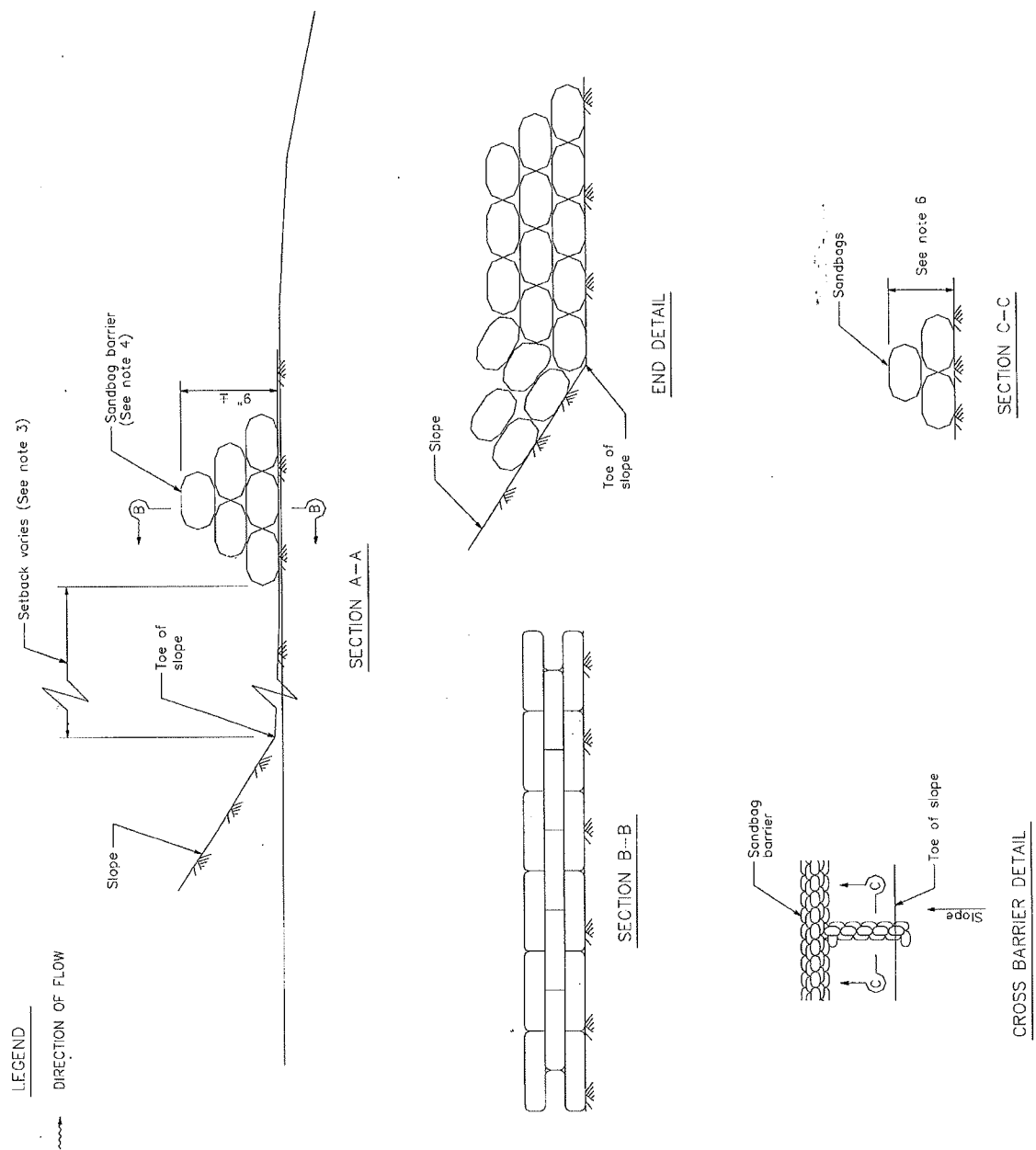
SE-8

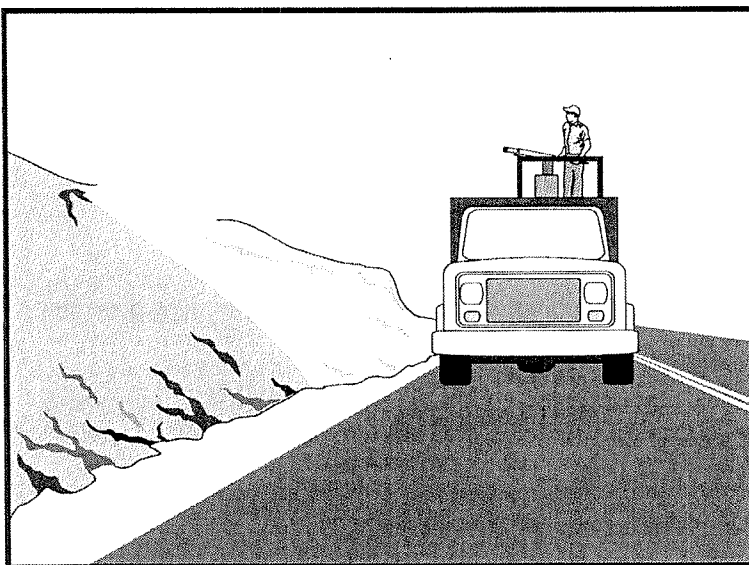


## SANDBAG BARRIER

### NOTES

1. Construct the length of each reach so that the change in base elevation along the reach does not exceed  $1/2$  the height of the linear barrier. In no case shall the reach length exceed 500'.
2. Place sandbags tightly.
3. Dimension may vary to fit field condition.
4. Sandbag barrier shall be a minimum of 3 bags high.
5. The end of the barrier shall be turned up slope.
6. Cross barriers shall be a min of  $1/2$  and a max of  $2/3$  the height of the linear barrier.
7. Sandbag rows and layers shall be staggered to eliminate gaps.





## Categories

EC	Erosion Control	<input checked="" type="checkbox"/>
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	<input checked="" type="checkbox"/>
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

## Legend:

- ☒ Primary Category
- ☒ Secondary Category

## Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

## Potential Alternatives

- EC-4 Hydroseeding
- EC-5 Soil Binders
- EC-6 Straw Mulch
- EC-7 Geotextiles and Mats
- EC-8 Wood Mulching
- EC-14 Compost Blanket
- EC-16 Non-Vegetative Stabilization

## Description and Purpose

Hydraulic Mulch consists of various types of fibrous materials mixed with water and sprayed onto the soil surface in slurry form to provide a layer of temporary protection from wind and water erosion.

## Suitable Applications

Hydraulic mulch as a temporary, stand alone, erosion control BMP is suitable for disturbed areas that require temporary protection from wind and water erosion until permanent soil stabilization activities commence. Examples include:

- Rough-graded areas that will remain inactive for longer than permit-required thresholds (e.g., 14 days) or otherwise require stabilization to minimize erosion or prevent sediment discharges.
- Soil stockpiles.
- Slopes with exposed soil between existing vegetation such as trees or shrubs.
- Slopes planted with live, container-grown vegetation or plugs.
- Slopes burned by wildfire.

Hydraulic mulch can also be applied to augment other erosion control BMPs such as:





- In conjunction with straw mulch (see EC-6 Straw Mulch) where the rate of hydraulic mulch is reduced to 100-500 lbs per acre and the slurry is applied over the straw as a tackifying agent to hold the straw in place.
- Supplemental application of soil amendments, such as fertilizer, lime, gypsum, soil bio-stimulants or compost.

### Limitations

In general, hydraulic mulch is not limited by slope length, gradient or soil type. However, the following limitations typically apply:

- Most hydraulic mulch applications, particularly bonded fiber matrices (BFMs), require at least 24 hours to dry before rainfall occurs.
- Temporary applications (i.e., without a vegetative component) may require a second application in order to remain effective for an entire rainy season.
- Treatment areas must be accessible to hydraulic mulching equipment.
- Availability of water sources in remote areas for mixing and application.
- As a stand-alone temporary BMP, hydraulic mulches may need to be re-applied to maintain their erosion control effectiveness, typically after 6-12 months depending on the type of mulch used.
- Availability of hydraulic mulching equipment may be limited just prior to the rainy season and prior to storms due to high demand.
- Cellulose fiber mulches alone may not perform well on steep slopes or in coarse soils.

### Implementation

- Where feasible, it is preferable to prepare soil surfaces prior to application by roughening embankments and fill areas with a crimping or punching type roller or by track walking.
- The majority of hydraulic mulch applications do not necessarily require surface/soil preparation (See EC-15 Soil Preparation) although in almost every case where re-vegetation is included as part of the practice, soil preparation can be beneficial. One of the advantages of hydraulic mulch over other erosion control methods is that it can be applied in areas where soil preparation is precluded by site conditions, such as steep slopes, rocky soils, or inaccessibility.
- Avoid mulch over spray onto roads, sidewalks, drainage channels, existing vegetation, etc.
- Hydraulic mulching is generally performed utilizing specialized machines that have a large water-holding/mixing tank and some form of mechanical agitation or other recirculation method to keep water, mulch and soil amendments in suspension. The mixed hydraulic slurry can be applied from a tower sprayer on top of the machine or by extending a hose to areas remote from the machine.

- Where possible apply hydraulic mulch from multiple directions to adequately cover the soil. Application from a single direction can result in shadowing, uneven coverage and failure of the BMP.
- Hydraulic mulch can also include a vegetative component, such as seed, rhizomes, or stolons (see EC-4 Hydraulic Seed).
- Typical hydraulic mulch application rates range from 2,000 pounds per acre for standard mulches (SMs) to 3,500 pounds per acre for BFMs. However, the required amount of hydraulic mulch to provide adequate coverage of exposed topsoil may appear to exceed the standard rates when the roughness of the soil surface is changed due to soil preparation methods (see EC-15 Soil Preparation) or by slope gradient.
- Other factors such as existing soil moisture and soil texture can have a profound effect on the amount of hydraulic mulch required (i.e. application rate) applied to achieve an erosion-resistant covering.
- Avoid use of mulch without a tackifier component, especially on slopes.
- Mulches used in the hydraulic mulch slurry can include:
  - Cellulose fiber
  - Thermally-processed wood fibers
  - Cotton
  - Synthetics
  - Compost (see EC-14, Compost Blanket)
- Additional guidance on the comparison and selection of temporary slope stabilization methods is provided in Appendix F of the Handbook.

## Categories of Hydraulic Mulches

### Standard Hydraulic Mulch (SM)

Standard hydraulic mulches are generally applied at a rate of 2,000 pounds per acre and are manufactured containing around 5% tackifier (i.e. soil binder), usually a plant-derived guar or psyllium type. Most standard mulches are green in color derived from food-color based dyes.

### Hydraulic Matrices (HM) and Stabilized Fiber Matrices (SFM)

Hydraulic matrices and stabilized fiber matrices are slurries which contain increased levels of tackifiers/soil binders; usually 10% or more by weight. HMs and SFMs have improved performance compared to a standard hydraulic mulch (SM) because of the additional percentage of tackifier and because of their higher application rates, typically 2,500 – 4,000 pounds per acre. Hydraulic matrices can include a mixture of fibers, for example, a 50/50 blend of paper and wood fiber. In the case of an SFM, the tackifier/soil binder is specified as a polyacrylamide (PAM).

## Bonded Fiber Matrix (BFM)

Bonded fiber matrices (BFMs) are hydraulically-applied systems of fibers, adhesives (typically guar based) and chemical cross-links. Upon drying, the slurry forms an erosion-resistant blanket that prevents soil erosion and promotes vegetation establishment. The cross-linked adhesive in the BFM should be biodegradable and should not dissolve or disperse upon re-wetting. BFMs are typically applied at rates from 3,000 to 4,000 lbs/acre based on the manufacturer's recommendation. BFMs should not be applied immediately before, during or immediately after rainfall or if the soil is saturated. Depending on the product, BFMs typically require 12 to 24 hours to dry and become effective.

## Mechanically-Bonded Fiber Matrices (MBFM)

Mechanically-bonded fiber matrices (MBFMs) are hydraulically applied systems similar to BFM that use crimped synthetic fibers and PAM and are typically applied to a slope at a higher application rate than a standard BFM.

## Hydraulic Compost Matrix (HCM)

Hydraulic compost matrix (HCM) is a field-derived practice whereby finely graded or sifted compost is introduced into the hydraulic mulch slurry. A guar-type tackifier can be added for steeper slope applications as well as any specified seed mixtures. A HCM can help to accelerate seed germination and growth. HCMs are particularly useful as an in-fill for three-dimensional re-vegetation geocomposites, such as turf reinforcement mats (TRM) (see EC-7 Geotextiles and Mats).

## **Costs**

Average installed costs for hydraulic mulch categories are provided in Table 1, below.

**Table 1**  
**HYDRAULIC MULCH BMPs**  
**INSTALLED COSTS**

BMP	Installed Cost/Acre
Standard Hydraulic Mulching (SM)	\$1,700 - \$3,600 per acre
Hydraulic Matrices (HM) and Stabilized Fiber Matrices	
Guar-based	\$2,000 - \$4,000 per acre
PAM-based	\$2,500 - \$5,610 per acre
Bonded Fiber Matrix (BFM)	\$3,900 - \$6,900 per acre
Mechanically Bonded Fiber Matrix (MBFM)	\$4,500 - \$6,000 per acre
Hydraulic Compost Matrix (HCM)	\$3,000 - \$3,500 per acre

Source: Caltrans Soil Stabilization BMP Research for Erosion and Sediment Controls, July 2007

## **Inspection and Maintenance**

- Maintain an unbroken, temporary mulched ground cover throughout the period of construction when the soils are not being reworked.
- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected



weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.

- Areas where erosion is evident should be repaired and BMPs re-applied as soon as possible. Care should be exercised to minimize the damage to protected areas while making repairs, as any area damaged will require re-application of BMPs.
- Compare the number of bags or weight of applied mulch to the area treated to determine actual application rates and compliance with specifications.

### References

Soil Stabilization BMP Research for Erosion and Sediment Controls: Cost Survey Technical Memorandum, State of California Department of Transportation (Caltrans), July 2007.

Controlling Erosion of Construction Sites, Agricultural Information #347, U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS) (formerly Soil Conservation Service – SCS).

Guides for Erosion and Sediment Control in California, USDA Soils Conservation Service, January 1991.

Manual of Standards of Erosion and Sediment Control Measures, Association of Bay Area Governments, May 1995.

Sedimentation and Erosion Control, An Inventory of Current Practices Draft, US EPA, April 1990.

Soil Erosion by Water, Agriculture Information Bulletin #513, U.S. Department of Agriculture, Soil Conservation Service.

Stormwater Quality Handbooks Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Guidance Document: Soil Stabilization for Temporary Slopes, State of California Department of Transportation (Caltrans), November 1999

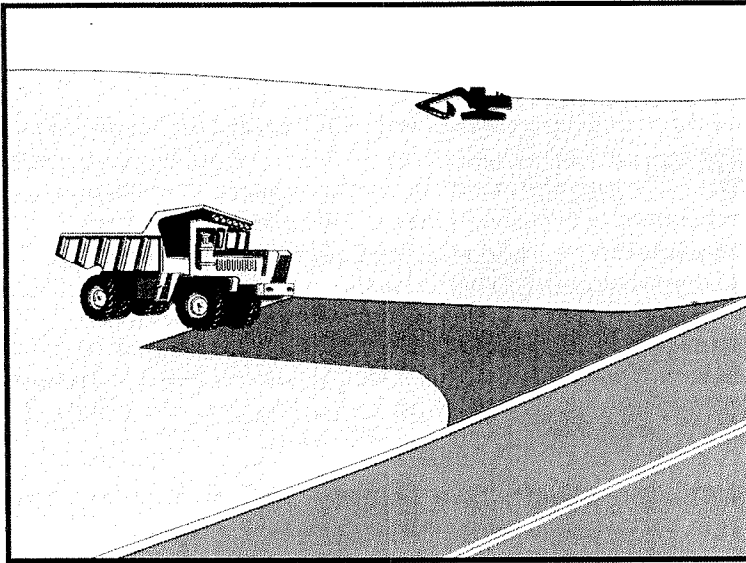
Stormwater Management of the Puget Sound Basin, Technical Manual, Publication #91-75, Washington State Department of Ecology, February 1992.

Water Quality Management Plan for the Lake Tahoe Region, Volume II, Handbook of Management Practices, Tahoe Regional Planning Agency, November 1988.

## Violation No. 5

Failure to Implement Perimeter Sediment  
Control BMPs  
(14 days)

# Stabilized Construction Entrance/Exit TC-1



## Categories

EC	Erosion Control	<input checked="" type="checkbox"/>
SE	Sediment Control	<input checked="" type="checkbox"/>
TC	Tracking Control	<input checked="" type="checkbox"/>
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

## Legend:

- ☒ Primary Objective
- ☒ Secondary Objective

## Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

## Potential Alternatives

None

## Description and Purpose

A stabilized construction access is defined by a point of entrance/exit to a construction site that is stabilized to reduce the tracking of mud and dirt onto public roads by construction vehicles.

## Suitable Applications

Use at construction sites:

- Where dirt or mud can be tracked onto public roads.
- Adjacent to water bodies.
- Where poor soils are encountered.
- Where dust is a problem during dry weather conditions.

## Limitations

- Entrances and exits require periodic top dressing with additional stones.
- This BMP should be used in conjunction with street sweeping on adjacent public right of way.
- Entrances and exits should be constructed on level ground only.
- Stabilized construction entrances are rather expensive to construct and when a wash rack is included, a sediment trap of some kind must also be provided to collect wash water runoff.





# **Stabilized Construction Entrance/Exit TC-1**

## **Implementation**

### ***General***

A stabilized construction entrance is a pad of aggregate underlain with filter cloth located at any point where traffic will be entering or leaving a construction site to or from a public right of way, street, alley, sidewalk, or parking area. The purpose of a stabilized construction entrance is to reduce or eliminate the tracking of sediment onto public rights of way or streets. Reducing tracking of sediments and other pollutants onto paved roads helps prevent deposition of sediments into local storm drains and production of airborne dust.

Where traffic will be entering or leaving the construction site, a stabilized construction entrance should be used. NPDES permits require that appropriate measures be implemented to prevent tracking of sediments onto paved roadways, where a significant source of sediments is derived from mud and dirt carried out from unpaved roads and construction sites.

Stabilized construction entrances are moderately effective in removing sediment from equipment leaving a construction site. The entrance should be built on level ground. Advantages of the Stabilized Construction Entrance/Exit is that it does remove some sediment from equipment and serves to channel construction traffic in and out of the site at specified locations. Efficiency is greatly increased when a washing rack is included as part of a stabilized construction entrance/exit.

### ***Design and Layout***

- Construct on level ground where possible.
- Select 3 to 6 in. diameter stones.
- Use minimum depth of stones of 12 in. or as recommended by soils engineer.
- Construct length of 50 ft or maximum site will allow, and 10 ft minimum width or to accommodate traffic.
- Rumble racks constructed of steel panels with ridges and installed in the stabilized entrance/exit will help remove additional sediment and to keep adjacent streets clean.
- Provide ample turning radii as part of the entrance.
- Limit the points of entrance/exit to the construction site.
- Limit speed of vehicles to control dust.
- Properly grade each construction entrance/exit to prevent runoff from leaving the construction site.
- Route runoff from stabilized entrances/exits through a sediment trapping device before discharge.
- Design stabilized entrance/exit to support heaviest vehicles and equipment that will use it.

# **Stabilized Construction Entrance/Exit TC-1**

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- Select construction access stabilization (aggregate, asphaltic concrete, concrete) based on longevity, required performance, and site conditions. Do not use asphalt concrete (AC) grindings for stabilized construction access/roadway.
- If aggregate is selected, place crushed aggregate over geotextile fabric to at least 12 in. depth, or place aggregate to a depth recommended by a geotechnical engineer. A crushed aggregate greater than 3 in. but smaller than 6 in. should be used.
- Designate combination or single purpose entrances and exits to the construction site.
- Require that all employees, subcontractors, and suppliers utilize the stabilized construction access.
- Implement SE-7, Street Sweeping and Vacuuming, as needed.
- All exit locations intended to be used for more than a two-week period should have stabilized construction entrance/exit BMPs.

## **Inspection and Maintenance**

- Inspect and verify that activity-based BMPs are in place prior to the commencement of associated activities. While activities associated with the BMPs are under way, inspect BMPs in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Inspect local roads adjacent to the site daily. Sweep or vacuum to remove visible accumulated sediment.
- Remove aggregate, separate and dispose of sediment if construction entrance/exit is clogged with sediment.
- Keep all temporary roadway ditches clear.
- Check for damage and repair as needed.
- Replace gravel material when surface voids are visible.
- Remove all sediment deposited on paved roadways within 24 hours.
- Remove gravel and filter fabric at completion of construction

## **Costs**

Average annual cost for installation and maintenance may vary from \$1,200 to \$4,800 each, averaging \$2,400 per entrance. Costs will increase with addition of washing rack, and sediment trap. With wash rack, costs range from \$1,200 - \$6,000 each, averaging \$3,600 per entrance.

## **References**

Manual of Standards of Erosion and Sediment Control Measures, Association of Bay Area Governments, May 1995.

# **Stabilized Construction Entrance/Exit TC-1**

National Management Measures to Control Nonpoint Source Pollution from Urban Areas, USEPA Agency, 2002.

Proposed Guidance Specifying Management Measures for Sources of Nonpoint Pollution in Coastal Waters, Work Group Working Paper, USEPA, April 1992.

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Stormwater Management of the Puget Sound Basin, Technical Manual, Publication #91-75, Washington State Department of Ecology, February 1992.

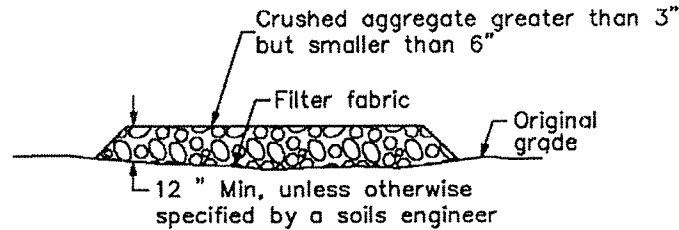
Virginia Erosion and Sedimentation Control Handbook, Virginia Department of Conservation and Recreation, Division of Soil and Water Conservation, 1991.

Guidance Specifying Management Measures for Nonpoint Pollution in Coastal Waters, EPA 840-B-9-002, USEPA, Office of Water, Washington, DC, 1993.

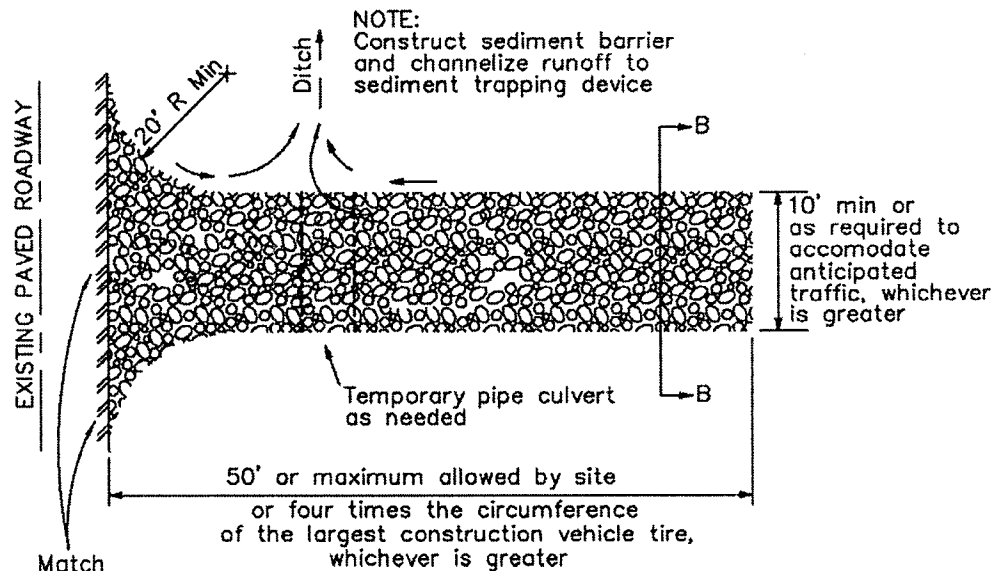
Water Quality Management Plan for the Lake Tahoe Region, Volume II, Handbook of Management Practices, Tahoe Regional Planning Agency, November 1988.



# Stabilized Construction Entrance/Exit TC-1

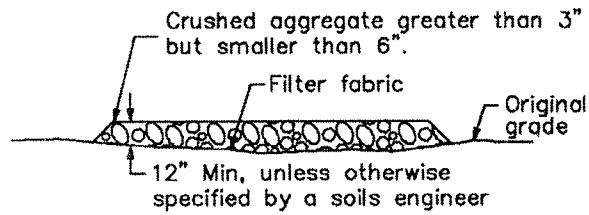


SECTION B-B  
NTS

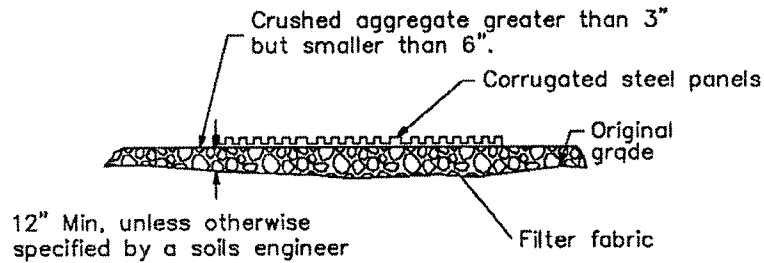


PLAN  
NTS

# Stabilized Construction Entrance/Exit TC-1

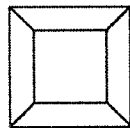


**SECTION B-B**  
NTS

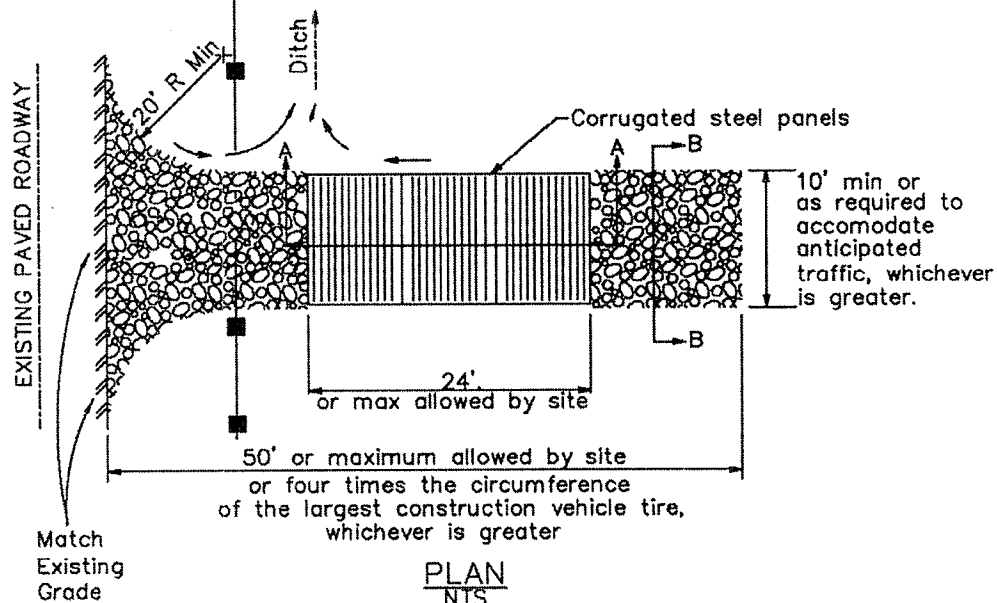


**SECTION A-A**  
NOT TO SCALE

NOTE:  
Construct sediment barrier and channelize runoff to sediment trapping device

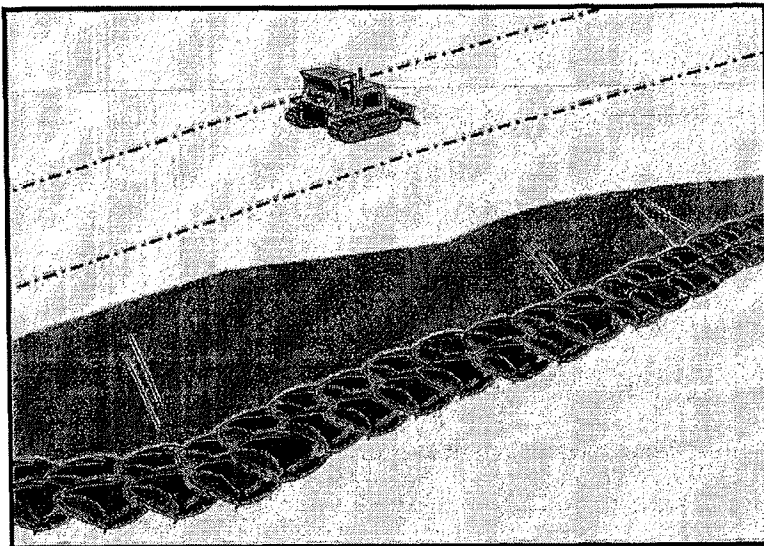


Sediment trapping device



# Sandbag Barrier

SE-8



## Categories

EC	Erosion Control	<input checked="" type="checkbox"/>
SE	Sediment Control	<input checked="" type="checkbox"/>
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

## Legend:

- ☒ Primary Category
- ☒ Secondary Category

## Description and Purpose

A sandbag barrier is a series of sand-filled bags placed on a level contour to intercept or to divert sheet flows. Sandbag barriers placed on a level contour pond sheet flow runoff, allowing sediment to settle out.

## Suitable Applications

Sandbag barriers may be suitable:

- As a linear sediment control measure:
  - Below the toe of slopes and erodible slopes.
  - As sediment traps at culvert/pipe outlets.
  - Below other small cleared areas.
  - Along the perimeter of a site.
  - Down slope of exposed soil areas.
  - Around temporary stockpiles and spoil areas.
  - Parallel to a roadway to keep sediment off paved areas.
  - Along streams and channels.
- As linear erosion control measure:
  - Along the face and at grade breaks of exposed and erodible slopes to shorten slope length and spread runoff as sheet flow.

## Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

## Potential Alternatives

SE-1 Silt Fence  
SE-5 Fiber Rolls  
SE-6 Gravel Bag Berm  
SE-14 Biofilter Bags





- At the top of slopes to divert runoff away from disturbed slopes.
- As check dams across mildly sloped construction roads.

## Limitations

- It is necessary to limit the drainage area upstream of the barrier to 5 acres.
- Sandbags are not intended to be used as filtration devices.
- Easily damaged by construction equipment.
- Degraded sandbags may rupture when removed, spilling sand.
- Sand is easily transported by runoff if bag is damaged or ruptured.
- Installation can be labor intensive.
- Durability of sandbags is somewhat limited and bags may need to be replaced when installation is required for longer than 6 months. When used to detain concentrated flows, maintenance requirements increase.
- Burlap should not be used for sandbags.

## Implementation

### General

A sandbag barrier consists of a row of sand-filled bags placed on a level contour. When appropriately placed, a sandbag barrier intercepts and slows sheet flow runoff, causing temporary ponding. The temporary ponding allows sediment to settle. Sand-filled bags have limited porosity, which is further limited as the fine sand tends to quickly plug with sediment, limiting or completely blocking the rate of flow through the barrier. If a porous barrier is desired, consider SE-1, Silt Fence, SE-5, Fiber Rolls, SE-6, Gravel Bag Berms or SE-14, Biofilter Bags. Sandbag barriers also interrupt the slope length and thereby reduce erosion by reducing the tendency of sheet flows to concentrate into rivulets which erode rills, and ultimately gullies, into disturbed, sloped soils. Sandbag barriers are similar to gravel bag berms, but less porous. Generally, sandbag barriers should be used in conjunction with temporary soil stabilization controls up slope to provide effective erosion and sediment control.

### Design and Layout

- Locate sandbag barriers on a level contour.
  - When used for slope interruption, the following slope/sheet flow length combinations apply:
    - Slope inclination of 4:1 (H:V) or flatter: Sandbags should be placed at a maximum interval of 20 ft, with the first row near the slope toe.
    - Slope inclination between 4:1 and 2:1 (H:V): Sandbags should be placed at a maximum interval of 15 ft. (a closer spacing is more effective), with the first row near the slope toe.
- Slope inclination 2:1 (H:V) or greater: Sandbags should be placed at a maximum interval of 10 ft. (a closer spacing is more effective), with the first row near the slope toe.

- Turn the ends of the sandbag barrier up slope to prevent runoff from going around the barrier.
- Allow sufficient space up slope from the barrier to allow ponding, and to provide room for sediment storage.
- For installation near the toe of the slope, sand bag barriers should be set back from the slope toe to facilitate cleaning. Where specific site conditions do not allow for a set-back, the sand bag barrier may be constructed on the toe of the slope. To prevent flows behind the barrier, bags can be placed perpendicular to a berm to serve as cross barriers.
- Drainage area should not exceed 5 acres.
- Stack sandbags at least three bags high.
- Butt ends of bags tightly.
- Overlap butt joints of row beneath with each successive row.
- Use a pyramid approach when stacking bags.
- In non-traffic areas
  - Height = 18 in. maximum
  - Top width = 24 in. minimum for three or more layer construction
  - Side slope = 2:1 (H:V) or flatter
- In construction traffic areas
  - Height = 12 in. maximum
  - Top width = 24 in. minimum for three or more layer construction.
  - Side slopes = 2:1 (H:V) or flatter.
- See typical sandbag barrier installation details at the end of this fact sheet.

## **Materials**

- **Sandbag Material:** Sandbag should be woven polypropylene, polyethylene or polyamide fabric, minimum unit weight of 4 ounces/yd<sup>2</sup>, Mullen burst strength exceeding 300 lb/in<sup>2</sup> in conformance with the requirements in ASTM designation D3786, and ultraviolet stability exceeding 70% in conformance with the requirements in ASTM designation D4355. Use of burlap is not an acceptable substitute, as sand can more easily mobilize out of burlap.
- **Sandbag Size:** Each sand-filled bag should have a length of 18 in., width of 12 in., thickness of 3 in., and mass of approximately 33 lbs. Bag dimensions are nominal, and may vary based on locally available materials.

- **Fill Material:** All sandbag fill material should be non-cohesive, Class 3 (Caltrans Standard Specification, Section 25) permeable material free from clay and deleterious material, such as recycled concrete or asphalt..

## Costs

Empty sandbags cost \$0.25 - \$0.75. Average cost of fill material is \$8 per yd<sup>3</sup>. Additional labor is required to fill the bags. Pre-filled sandbags are more expensive at \$1.50 - \$2.00 per bag. These costs are based upon vendor research.

## Inspection and Maintenance

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Sandbags exposed to sunlight will need to be replaced every two to three months due to degradation of the bags.
- Reshape or replace sandbags as needed.
- Repair washouts or other damage as needed.
- Sediment that accumulates behind the BMP should be periodically removed in order to maintain BMP effectiveness. Sediment should be removed when the sediment accumulation reaches one-third of the barrier height.
- Remove sandbags when no longer needed and recycle sand fill whenever possible and properly dispose of bag material. Remove sediment accumulation, and clean, re-grade, and stabilize the area.

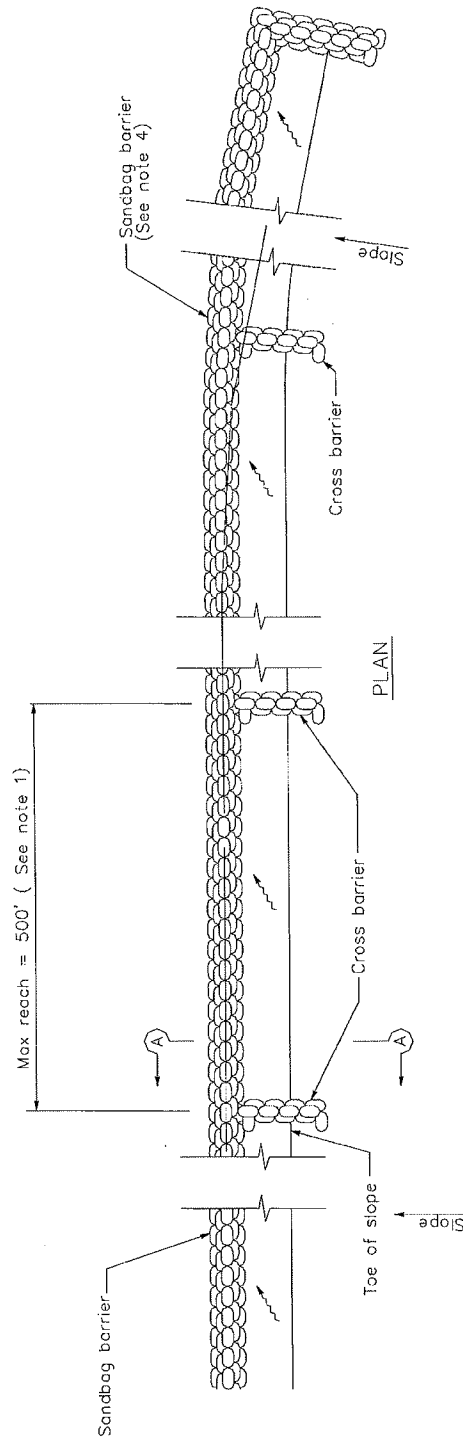
## References

Standard Specifications for Construction of Local Streets and Roads, California Department of Transportation (Caltrans), July 2002.

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Erosion and Sediment Control Manual, Oregon Department of Environmental Quality, February 2005.

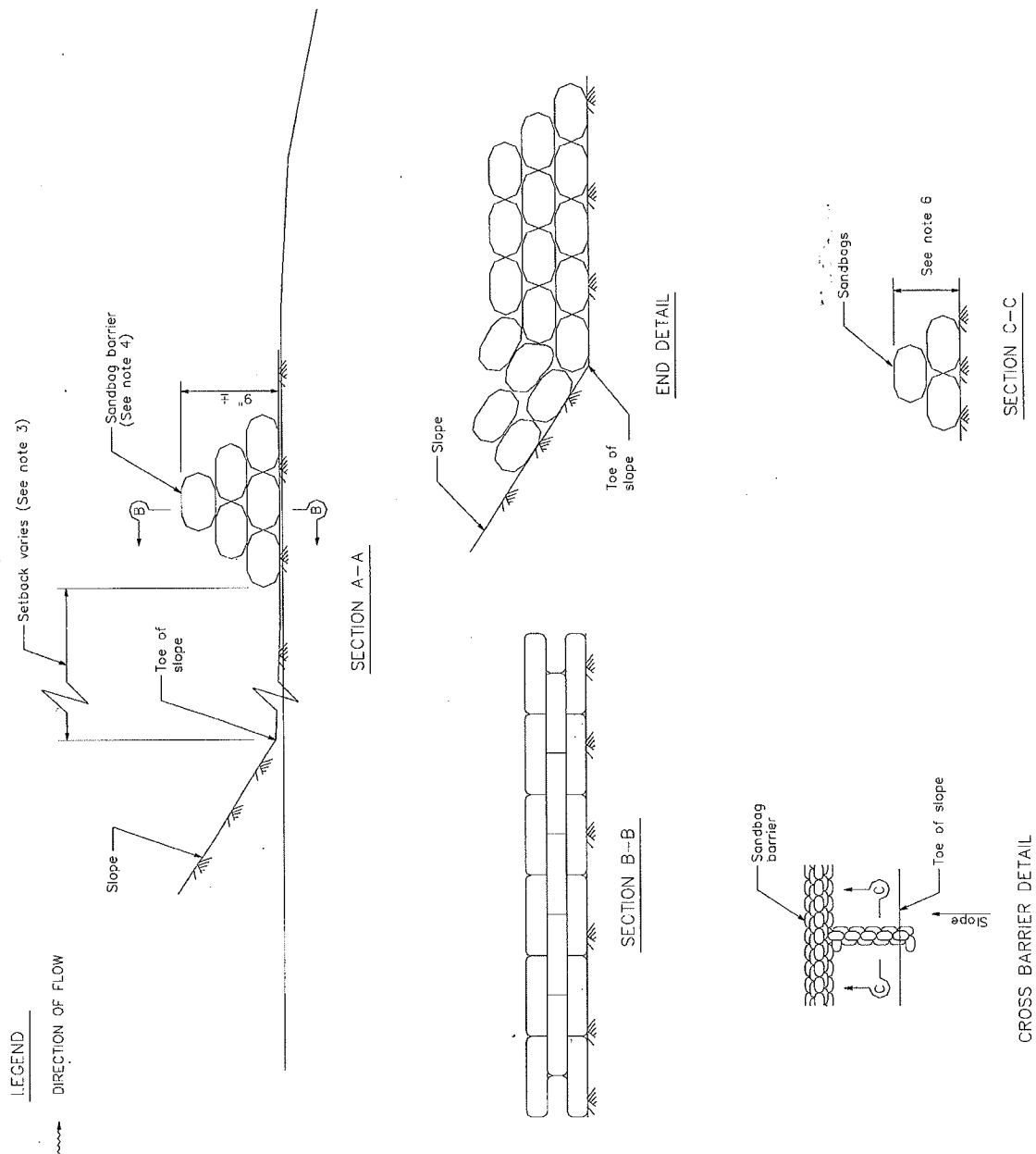


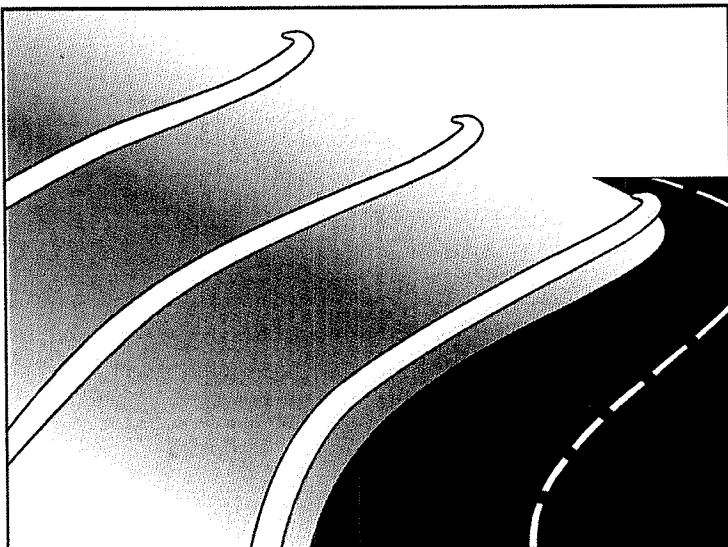


## SANDBAG BARRIER

### NOTES

1. Construct the length of each reach so that the change in base elevation along the reach does not exceed  $1/2$  the height of the linear barrier. In no case shall the reach length exceed 500'.
2. Place sandbags tightly.
3. Dimension may vary to fit field condition.
4. Sandbag barrier shall be a minimum of 3 bags high.
5. The end of the barrier shall be turned up slope.
6. Cross barriers shall be a min of  $1/2$  and a max of  $2/3$  the height of the linear barrier.
7. Sandbag rows and layers shall be staggered to eliminate gaps.





## Description and Purpose

A fiber roll consists of straw, coir, or other biodegradable materials bound into a tight tubular roll wrapped by netting, which can be photodegradable or natural. Additionally, gravel core fiber rolls are available, which contain an imbedded ballast material such as gravel or sand for additional weight when staking the rolls are not feasible (such as use as inlet protection). When fiber rolls are placed at the toe and on the face of slopes along the contours, they intercept runoff, reduce its flow velocity, release the runoff as sheet flow, and provide removal of sediment from the runoff (through sedimentation). By interrupting the length of a slope, fiber rolls can also reduce sheet and rill erosion until vegetation is established.

## Suitable Applications

Fiber rolls may be suitable:

- Along the toe, top, face, and at grade breaks of exposed and erodible slopes to shorten slope length and spread runoff as sheet flow.
- At the end of a downward slope where it transitions to a steeper slope.
- Along the perimeter of a project.
- As check dams in unlined ditches with minimal grade.
- Down-slope of exposed soil areas.
- At operational storm drains as a form of inlet protection.

## Categories

EC	Erosion Control	<input checked="" type="checkbox"/>
SE	Sediment Control	<input checked="" type="checkbox"/>
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

## Legend:

- ☒ Primary Category
- ☒ Secondary Category

## Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

## Potential Alternatives

- SE-1 Silt Fence
- SE-6 Gravel Bag Berm
- SE-8 Sandbag Barrier
- SE-14 Biofilter Bags





- Around temporary stockpiles.

## **Limitations**

- Fiber rolls are not effective unless trenched in and staked.
- Not intended for use in high flow situations.
- Difficult to move once saturated.
- If not properly staked and trenched in, fiber rolls could be transported by high flows.
- Fiber rolls have a very limited sediment capture zone.
- Fiber rolls should not be used on slopes subject to creep, slumping, or landslide.
- Rolls typically function for 12-24 months depending upon local conditions.

## **Implementation**

### ***Fiber Roll Materials***

- Fiber rolls should be prefabricated.
- Fiber rolls may come manufactured containing polyacrylamide (PAM), a flocculating agent within the roll. Fiber rolls impregnated with PAM provide additional sediment removal capabilities and should be used in areas with fine, clayey or silty soils to provide additional sediment removal capabilities. Monitoring may be required for these installations.
- Fiber rolls are made from weed free rice straw, flax, or a similar agricultural material bound into a tight tubular roll by netting.
- Typical fiber rolls vary in diameter from 9 in. to 20 in. Larger diameter rolls are available as well.

### ***Installation***

- Locate fiber rolls on level contours spaced as follows:
  - Slope inclination of 4:1 (H:V) or flatter: Fiber rolls should be placed at a maximum interval of 20 ft.
  - Slope inclination between 4:1 and 2:1 (H:V): Fiber Rolls should be placed at a maximum interval of 15 ft. (a closer spacing is more effective).
  - Slope inclination 2:1 (H:V) or greater: Fiber Rolls should be placed at a maximum interval of 10 ft. (a closer spacing is more effective).
- Prepare the slope before beginning installation.
- Dig small trenches across the slope on the contour. The trench depth should be 1/4 to 1/3 of the thickness of the roll, and the width should equal the roll diameter, in order to provide area to backfill the trench.

- It is critical that rolls are installed perpendicular to water movement, and parallel to the slope contour.
- Start building trenches and installing rolls from the bottom of the slope and work up.
- It is recommended that pilot holes be driven through the fiber roll. Use a straight bar to drive holes through the roll and into the soil for the wooden stakes.
- Turn the ends of the fiber roll up slope to prevent runoff from going around the roll.
- Stake fiber rolls into the trench.
  - Drive stakes at the end of each fiber roll and spaced 4 ft maximum on center.
  - Use wood stakes with a nominal classification of 0.75 by 0.75 in. and minimum length of 24 in.
- If more than one fiber roll is placed in a row, the rolls should be overlapped, not abutted.
- See typical fiber roll installation details at the end of this fact sheet.

## **Removal**

- Fiber rolls can be left in place or removed depending on the type of fiber roll and application (temporary vs. permanent installation). Typically, fiber rolls encased with plastic netting are used for a temporary application because the netting does not biodegrade. Fiber rolls used in a permanent application are typically encased with a biodegradable material and are left in place. Removal of a fiber roll used in a permanent application can result in greater disturbance.
- Temporary installations should only be removed when up gradient areas are stabilized per General Permit requirements, and/or pollutant sources no longer present a hazard. But, they should also be removed before vegetation becomes too mature so that the removal process does not disturb more soil and vegetation than is necessary.

## **Costs**

Material costs for regular fiber rolls range from \$20 - \$30 per 25 ft roll.

Material costs for PAM impregnated fiber rolls range between 7.00-\$9.00 per linear foot, based upon vendor research.

## **Inspection and Maintenance**

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Repair or replace split, torn, unraveling, or slumping fiber rolls.
- If the fiber roll is used as a sediment capture device, or as an erosion control device to maintain sheet flows, sediment that accumulates in the BMP should be periodically removed

in order to maintain BMP effectiveness. Sediment should be removed when sediment accumulation reaches one-third the designated sediment storage depth.

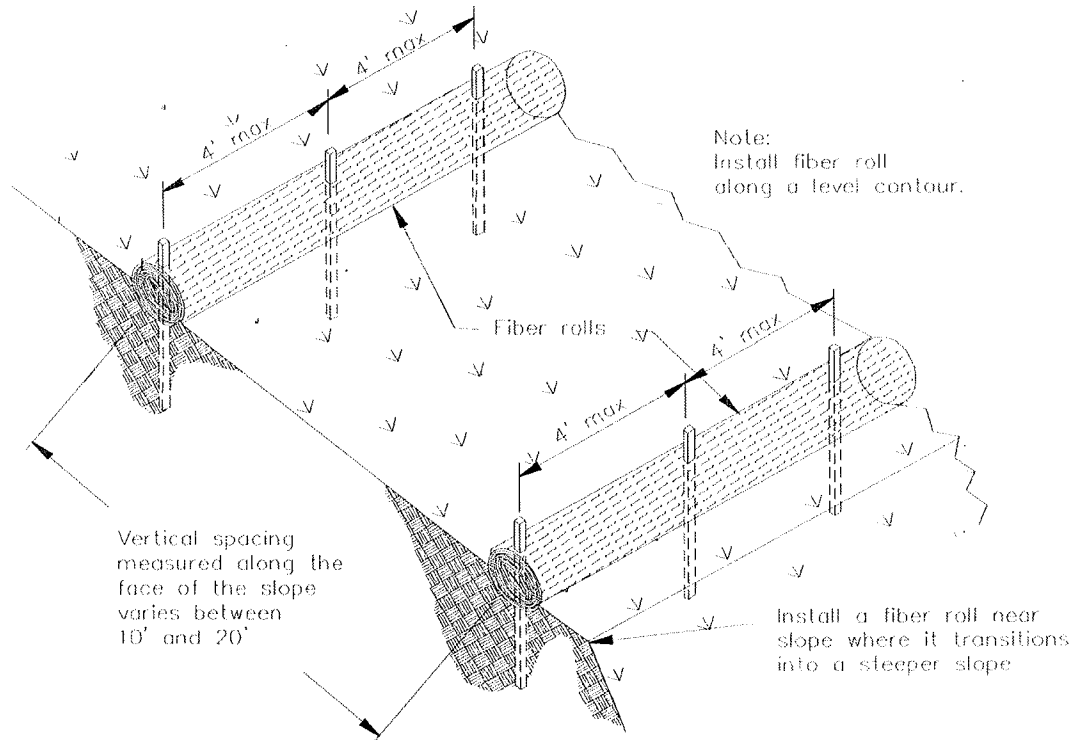
- If fiber rolls are used for erosion control, such as in a check dam, sediment removal should not be required as long as the system continues to control the grade. Sediment control BMPs will likely be required in conjunction with this type of application.
- Repair any rills or gullies promptly.

## References

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

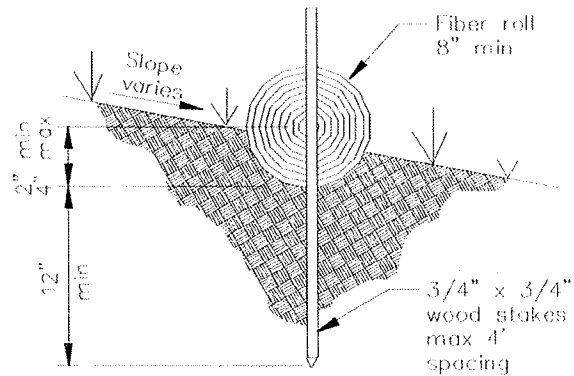
Erosion and Sediment Control Manual, Oregon Department of Environmental Quality, February 2005.





TYPICAL FIBER ROLL INSTALLATION

N.T.S.

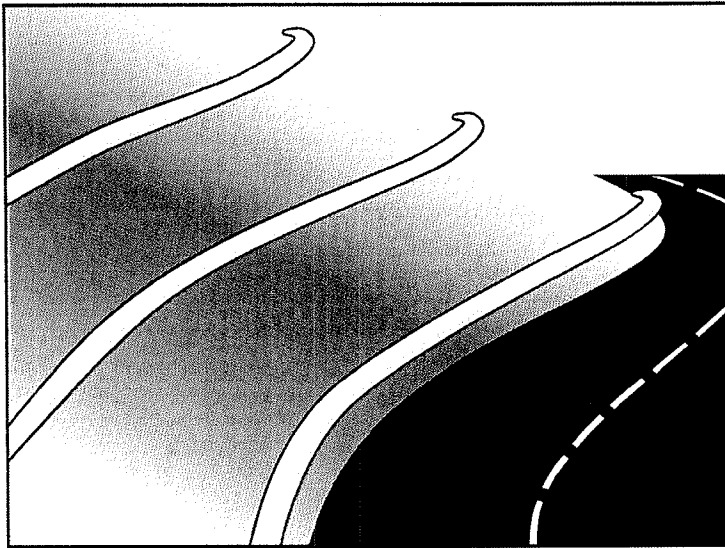


ENTRENCHMENT DETAIL

N.T.S.

## Violation No. 6

Failure to Implement Erosion Control BMPs in  
Active Areas  
(22 days)



## Description and Purpose

A fiber roll consists of straw, coir, or other biodegradable materials bound into a tight tubular roll wrapped by netting, which can be photodegradable or natural. Additionally, gravel core fiber rolls are available, which contain an imbedded ballast material such as gravel or sand for additional weight when staking the rolls are not feasible (such as use as inlet protection). When fiber rolls are placed at the toe and on the face of slopes along the contours, they intercept runoff, reduce its flow velocity, release the runoff as sheet flow, and provide removal of sediment from the runoff (through sedimentation). By interrupting the length of a slope, fiber rolls can also reduce sheet and rill erosion until vegetation is established.

## Suitable Applications

Fiber rolls may be suitable:

- Along the toe, top, face, and at grade breaks of exposed and erodible slopes to shorten slope length and spread runoff as sheet flow.
- At the end of a downward slope where it transitions to a steeper slope.
- Along the perimeter of a project.
- As check dams in unlined ditches with minimal grade.
- Down-slope of exposed soil areas.
- At operational storm drains as a form of inlet protection.

## Categories

EC	Erosion Control	<input checked="" type="checkbox"/>
SE	Sediment Control	<input checked="" type="checkbox"/>
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

## Legend:

- ☒ Primary Category
- ☒ Secondary Category

## Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

## Potential Alternatives

- SE-1 Silt Fence
- SE-6 Gravel Bag Berm
- SE-8 Sandbag Barrier
- SE-14 Biofilter Bags



- Around temporary stockpiles.

## **Limitations**

- Fiber rolls are not effective unless trenched in and staked.
- Not intended for use in high flow situations.
- Difficult to move once saturated.
- If not properly staked and trenched in, fiber rolls could be transported by high flows.
- Fiber rolls have a very limited sediment capture zone.
- Fiber rolls should not be used on slopes subject to creep, slumping, or landslide.
- Rolls typically function for 12-24 months depending upon local conditions.

## **Implementation**

### ***Fiber Roll Materials***

- Fiber rolls should be prefabricated.
- Fiber rolls may come manufactured containing polyacrylamide (PAM), a flocculating agent within the roll. Fiber rolls impregnated with PAM provide additional sediment removal capabilities and should be used in areas with fine, clayey or silty soils to provide additional sediment removal capabilities. Monitoring may be required for these installations.
- Fiber rolls are made from weed free rice straw, flax, or a similar agricultural material bound into a tight tubular roll by netting.
- Typical fiber rolls vary in diameter from 9 in. to 20 in. Larger diameter rolls are available as well.

### ***Installation***

- Locate fiber rolls on level contours spaced as follows:
  - Slope inclination of 4:1 (H:V) or flatter: Fiber rolls should be placed at a maximum interval of 20 ft.
  - Slope inclination between 4:1 and 2:1 (H:V): Fiber Rolls should be placed at a maximum interval of 15 ft. (a closer spacing is more effective).
  - Slope inclination 2:1 (H:V) or greater: Fiber Rolls should be placed at a maximum interval of 10 ft. (a closer spacing is more effective).
- Prepare the slope before beginning installation.
- Dig small trenches across the slope on the contour. The trench depth should be ¼ to 1/3 of the thickness of the roll, and the width should equal the roll diameter, in order to provide area to backfill the trench.



- It is critical that rolls are installed perpendicular to water movement, and parallel to the slope contour.
- Start building trenches and installing rolls from the bottom of the slope and work up.
- It is recommended that pilot holes be driven through the fiber roll. Use a straight bar to drive holes through the roll and into the soil for the wooden stakes.
- Turn the ends of the fiber roll up slope to prevent runoff from going around the roll.
- Stake fiber rolls into the trench.
  - Drive stakes at the end of each fiber roll and spaced 4 ft maximum on center.
  - Use wood stakes with a nominal classification of 0.75 by 0.75 in. and minimum length of 24 in.
- If more than one fiber roll is placed in a row, the rolls should be overlapped, not abutted.
- See typical fiber roll installation details at the end of this fact sheet.

## **Removal**

- Fiber rolls can be left in place or removed depending on the type of fiber roll and application (temporary vs. permanent installation). Typically, fiber rolls encased with plastic netting are used for a temporary application because the netting does not biodegrade. Fiber rolls used in a permanent application are typically encased with a biodegradable material and are left in place. Removal of a fiber roll used in a permanent application can result in greater disturbance.
- Temporary installations should only be removed when up gradient areas are stabilized per General Permit requirements, and/or pollutant sources no longer present a hazard. But, they should also be removed before vegetation becomes too mature so that the removal process does not disturb more soil and vegetation than is necessary.

## **Costs**

Material costs for regular fiber rolls range from \$20 - \$30 per 25 ft roll.

Material costs for PAM impregnated fiber rolls range between 7.00-\$9.00 per linear foot, based upon vendor research.

## **Inspection and Maintenance**

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Repair or replace split, torn, unraveling, or slumping fiber rolls.
- If the fiber roll is used as a sediment capture device, or as an erosion control device to maintain sheet flows, sediment that accumulates in the BMP should be periodically removed

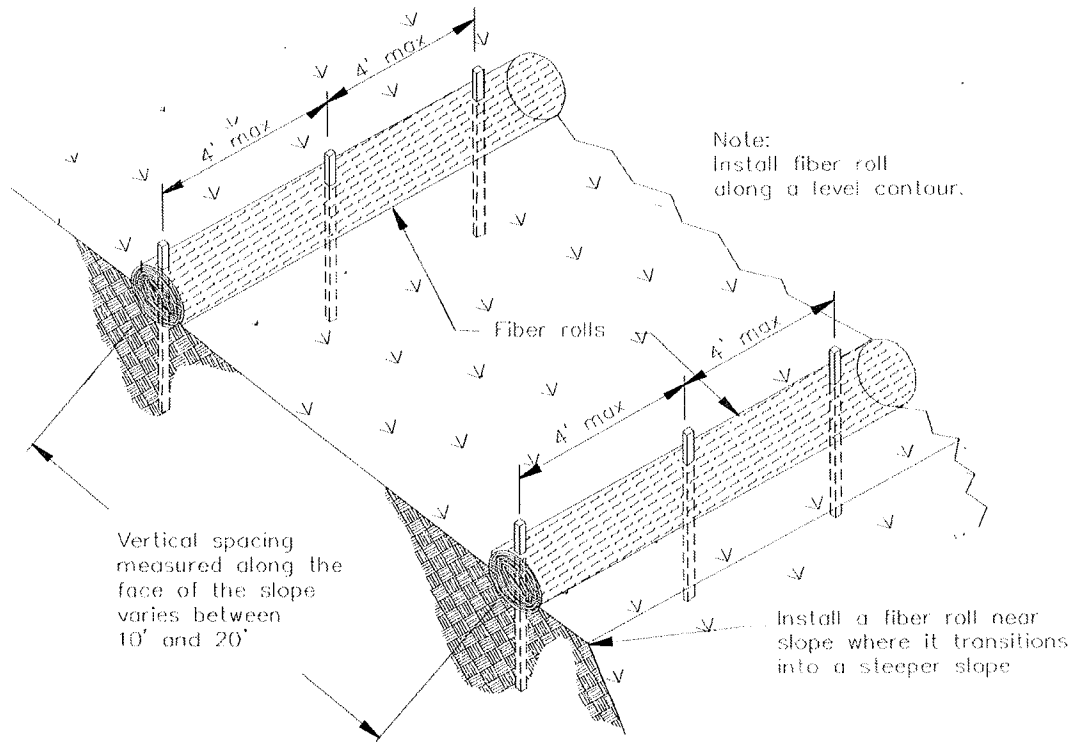
in order to maintain BMP effectiveness. Sediment should be removed when sediment accumulation reaches one-third the designated sediment storage depth.

- If fiber rolls are used for erosion control, such as in a check dam, sediment removal should not be required as long as the system continues to control the grade. Sediment control BMPs will likely be required in conjunction with this type of application.
- Repair any rills or gullies promptly.

## References

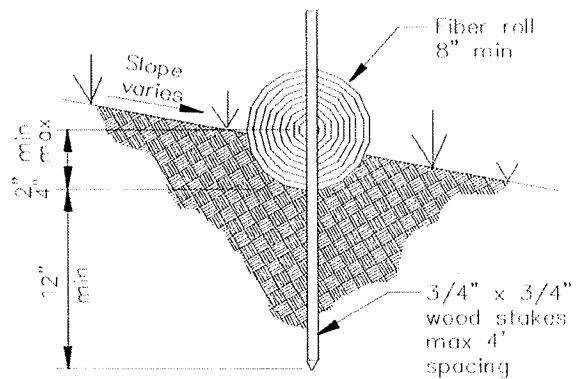
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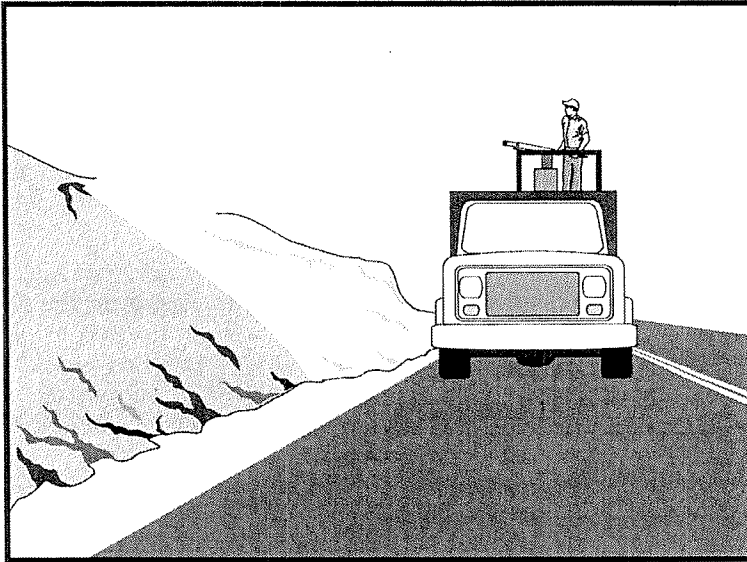
TYPICAL FIBER ROLL INSTALLATION

N.T.S.



ENTRENCHMENT DETAIL

N.T.S.



## Categories

EC	Erosion Control	<input checked="" type="checkbox"/>
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	<input checked="" type="checkbox"/>
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

## Legend:

- ☒ Primary Category
- ☒ Secondary Category

## Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

## Potential Alternatives

- EC-4 Hydroseeding
- EC-5 Soil Binders
- EC-6 Straw Mulch
- EC-7 Geotextiles and Mats
- EC-8 Wood Mulching
- EC-14 Compost Blanket
- EC-16 Non-Vegetative Stabilization

## Description and Purpose

Hydraulic Mulch consists of various types of fibrous materials mixed with water and sprayed onto the soil surface in slurry form to provide a layer of temporary protection from wind and water erosion.

## Suitable Applications

Hydraulic mulch as a temporary, stand alone, erosion control BMP is suitable for disturbed areas that require temporary protection from wind and water erosion until permanent soil stabilization activities commence. Examples include:

- Rough-graded areas that will remain inactive for longer than permit-required thresholds (e.g., 14 days) or otherwise require stabilization to minimize erosion or prevent sediment discharges.
- Soil stockpiles.
- Slopes with exposed soil between existing vegetation such as trees or shrubs.
- Slopes planted with live, container-grown vegetation or plugs.
- Slopes burned by wildfire.

Hydraulic mulch can also be applied to augment other erosion control BMPs such as:





- In conjunction with straw mulch (see EC-6 Straw Mulch) where the rate of hydraulic mulch is reduced to 100-500 lbs per acre and the slurry is applied over the straw as a tackifying agent to hold the straw in place.
- Supplemental application of soil amendments, such as fertilizer, lime, gypsum, soil bio-stimulants or compost.

### Limitations

In general, hydraulic mulch is not limited by slope length, gradient or soil type. However, the following limitations typically apply:

- Most hydraulic mulch applications, particularly bonded fiber matrices (BFMs), require at least 24 hours to dry before rainfall occurs.
- Temporary applications (i.e., without a vegetative component) may require a second application in order to remain effective for an entire rainy season.
- Treatment areas must be accessible to hydraulic mulching equipment.
- Availability of water sources in remote areas for mixing and application.
- As a stand-alone temporary BMP, hydraulic mulches may need to be re-applied to maintain their erosion control effectiveness, typically after 6-12 months depending on the type of mulch used.
- Availability of hydraulic mulching equipment may be limited just prior to the rainy season and prior to storms due to high demand.
- Cellulose fiber mulches alone may not perform well on steep slopes or in coarse soils.

### Implementation

- Where feasible, it is preferable to prepare soil surfaces prior to application by roughening embankments and fill areas with a crimping or punching type roller or by track walking.
- The majority of hydraulic mulch applications do not necessarily require surface/soil preparation (See EC-15 Soil Preparation) although in almost every case where re-vegetation is included as part of the practice, soil preparation can be beneficial. One of the advantages of hydraulic mulch over other erosion control methods is that it can be applied in areas where soil preparation is precluded by site conditions, such as steep slopes, rocky soils, or inaccessibility.
- Avoid mulch over spray onto roads, sidewalks, drainage channels, existing vegetation, etc.
- Hydraulic mulching is generally performed utilizing specialized machines that have a large water-holding/mixing tank and some form of mechanical agitation or other recirculation method to keep water, mulch and soil amendments in suspension. The mixed hydraulic slurry can be applied from a tower sprayer on top of the machine or by extending a hose to areas remote from the machine.

- Where possible apply hydraulic mulch from multiple directions to adequately cover the soil. Application from a single direction can result in shadowing, uneven coverage and failure of the BMP.
- Hydraulic mulch can also include a vegetative component, such as seed, rhizomes, or stolons (see EC-4 Hydraulic Seed).
- Typical hydraulic mulch application rates range from 2,000 pounds per acre for standard mulches (SMs) to 3,500 pounds per acre for BFMs. However, the required amount of hydraulic mulch to provide adequate coverage of exposed topsoil may appear to exceed the standard rates when the roughness of the soil surface is changed due to soil preparation methods (see EC-15 Soil Preparation) or by slope gradient.
- Other factors such as existing soil moisture and soil texture can have a profound effect on the amount of hydraulic mulch required (i.e. application rate) applied to achieve an erosion-resistant covering.
- Avoid use of mulch without a tackifier component, especially on slopes.
- Mulches used in the hydraulic mulch slurry can include:
  - Cellulose fiber
  - Thermally-processed wood fibers
  - Cotton
  - Synthetics
  - Compost (see EC-14, Compost Blanket)
- Additional guidance on the comparison and selection of temporary slope stabilization methods is provided in Appendix F of the Handbook.

## Categories of Hydraulic Mulches

### Standard Hydraulic Mulch (SM)

Standard hydraulic mulches are generally applied at a rate of 2,000 pounds per acre and are manufactured containing around 5% tackifier (i.e. soil binder), usually a plant-derived guar or psyllium type. Most standard mulches are green in color derived from food-color based dyes.

### Hydraulic Matrices (HM) and Stabilized Fiber Matrices (SFM)

Hydraulic matrices and stabilized fiber matrices are slurries which contain increased levels of tackifiers/soil binders; usually 10% or more by weight. HMs and SFMs have improved performance compared to a standard hydraulic mulch (SM) because of the additional percentage of tackifier and because of their higher application rates, typically 2,500 – 4,000 pounds per acre. Hydraulic matrices can include a mixture of fibers, for example, a 50/50 blend of paper and wood fiber. In the case of an SFM, the tackifier/soil binder is specified as a polyacrylamide (PAM).

## Bonded Fiber Matrix (BFM)

Bonded fiber matrices (BFMs) are hydraulically-applied systems of fibers, adhesives (typically guar based) and chemical cross-links. Upon drying, the slurry forms an erosion-resistant blanket that prevents soil erosion and promotes vegetation establishment. The cross-linked adhesive in the BFM should be biodegradable and should not dissolve or disperse upon re-wetting. BFMs are typically applied at rates from 3,000 to 4,000 lbs/acre based on the manufacturer's recommendation. BFMs should not be applied immediately before, during or immediately after rainfall or if the soil is saturated. Depending on the product, BFMs typically require 12 to 24 hours to dry and become effective.

## Mechanically-Bonded Fiber Matrices (MBFM)

Mechanically-bonded fiber matrices (MBFMs) are hydraulically applied systems similar to BFM that use crimped synthetic fibers and PAM and are typically applied to a slope at a higher application rate than a standard BFM.

## Hydraulic Compost Matrix (HCM)

Hydraulic compost matrix (HCM) is a field-derived practice whereby finely graded or sifted compost is introduced into the hydraulic mulch slurry. A guar-type tackifier can be added for steeper slope applications as well as any specified seed mixtures. A HCM can help to accelerate seed germination and growth. HCMs are particularly useful as an in-fill for three-dimensional re-vegetation geocomposites, such as turf reinforcement mats (TRM) (see EC-7 Geotextiles and Mats).

## **Costs**

Average installed costs for hydraulic mulch categories are provided in Table 1, below.

**Table 1**  
**HYDRAULIC MULCH BMPs**  
**INSTALLED COSTS**

BMP	Installed Cost/Acre
Standard Hydraulic Mulching (SM)	\$1,700 - \$3,600 per acre
Hydraulic Matrices (HM) and Stabilized Fiber Matrices	
Guar-based	\$2,000 - \$4,000 per acre
PAM-based	\$2,500 - \$5,610 per acre
Bonded Fiber Matrix (BFM)	\$3,900 - \$6,900 per acre
Mechanically Bonded Fiber Matrix (MBFM)	\$4,500 - \$6,000 per acre
Hydraulic Compost Matrix (HCM)	\$3,000 - \$3,500 per acre

Source: Caltrans Soil Stabilization BMP Research for Erosion and Sediment Controls, July 2007

## **Inspection and Maintenance**

- Maintain an unbroken, temporary mulched ground cover throughout the period of construction when the soils are not being reworked.
- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected

weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.

- Areas where erosion is evident should be repaired and BMPs re-applied as soon as possible. Care should be exercised to minimize the damage to protected areas while making repairs, as any area damaged will require re-application of BMPs.
- Compare the number of bags or weight of applied mulch to the area treated to determine actual application rates and compliance with specifications.

## References

Soil Stabilization BMP Research for Erosion and Sediment Controls: Cost Survey Technical Memorandum, State of California Department of Transportation (Caltrans), July 2007.

Controlling Erosion of Construction Sites, Agricultural Information #347, U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS) (formerly Soil Conservation Service – SCS).

Guides for Erosion and Sediment Control in California, USDA Soils Conservation Service, January 1991.

Manual of Standards of Erosion and Sediment Control Measures, Association of Bay Area Governments, May 1995.

Sedimentation and Erosion Control, An Inventory of Current Practices Draft, US EPA, April 1990.

Soil Erosion by Water, Agriculture Information Bulletin #513, U.S. Department of Agriculture, Soil Conservation Service.

Stormwater Quality Handbooks Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Guidance Document: Soil Stabilization for Temporary Slopes, State of California Department of Transportation (Caltrans), November 1999

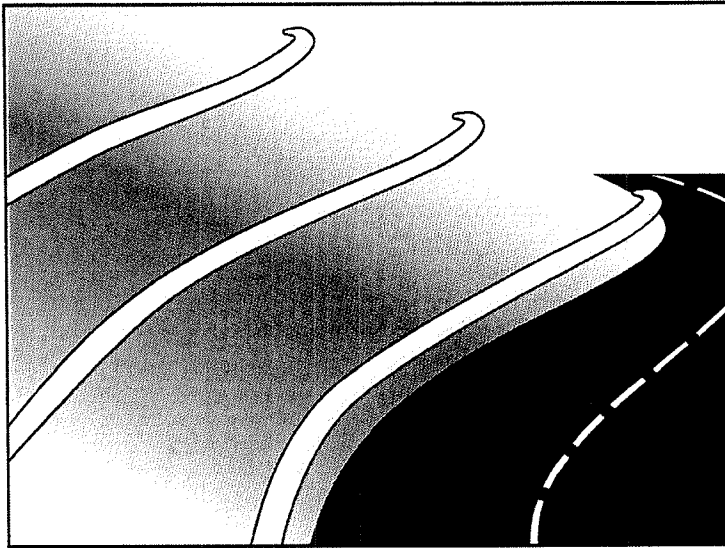
Stormwater Management of the Puget Sound Basin, Technical Manual, Publication #91-75, Washington State Department of Ecology, February 1992.

Water Quality Management Plan for the Lake Tahoe Region, Volume II, Handbook of Management Practices, Tahoe Regional Planning Agency, November 1988.



## Violation No. 7

Failure to Apply Linear Sediment Controls  
(9 days)



## Description and Purpose

A fiber roll consists of straw, coir, or other biodegradable materials bound into a tight tubular roll wrapped by netting, which can be photodegradable or natural. Additionally, gravel core fiber rolls are available, which contain an imbedded ballast material such as gravel or sand for additional weight when staking the rolls are not feasible (such as use as inlet protection). When fiber rolls are placed at the toe and on the face of slopes along the contours, they intercept runoff, reduce its flow velocity, release the runoff as sheet flow, and provide removal of sediment from the runoff (through sedimentation). By interrupting the length of a slope, fiber rolls can also reduce sheet and rill erosion until vegetation is established.

## Suitable Applications

Fiber rolls may be suitable:

- Along the toe, top, face, and at grade breaks of exposed and erodible slopes to shorten slope length and spread runoff as sheet flow.
- At the end of a downward slope where it transitions to a steeper slope.
- Along the perimeter of a project.
- As check dams in unlined ditches with minimal grade.
- Down-slope of exposed soil areas.
- At operational storm drains as a form of inlet protection.

## Categories

EC	Erosion Control	<input checked="" type="checkbox"/>
SE	Sediment Control	<input checked="" type="checkbox"/>
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

## Legend:

- ☒ Primary Category
- ☒ Secondary Category

## Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

## Potential Alternatives

- SE-1 Silt Fence
- SE-6 Gravel Bag Berm
- SE-8 Sandbag Barrier
- SE-14 Biofilter Bags



- Around temporary stockpiles.

## **Limitations**

- Fiber rolls are not effective unless trenched in and staked.
- Not intended for use in high flow situations.
- Difficult to move once saturated.
- If not properly staked and trenched in, fiber rolls could be transported by high flows.
- Fiber rolls have a very limited sediment capture zone.
- Fiber rolls should not be used on slopes subject to creep, slumping, or landslide.
- Rolls typically function for 12-24 months depending upon local conditions.

## **Implementation**

### ***Fiber Roll Materials***

- Fiber rolls should be prefabricated.
- Fiber rolls may come manufactured containing polyacrylamide (PAM), a flocculating agent within the roll. Fiber rolls impregnated with PAM provide additional sediment removal capabilities and should be used in areas with fine, clayey or silty soils to provide additional sediment removal capabilities. Monitoring may be required for these installations.
- Fiber rolls are made from weed free rice straw, flax, or a similar agricultural material bound into a tight tubular roll by netting.
- Typical fiber rolls vary in diameter from 9 in. to 20 in. Larger diameter rolls are available as well.

### ***Installation***

- Locate fiber rolls on level contours spaced as follows:
  - Slope inclination of 4:1 (H:V) or flatter: Fiber rolls should be placed at a maximum interval of 20 ft.
  - Slope inclination between 4:1 and 2:1 (H:V): Fiber Rolls should be placed at a maximum interval of 15 ft. (a closer spacing is more effective).
  - Slope inclination 2:1 (H:V) or greater: Fiber Rolls should be placed at a maximum interval of 10 ft. (a closer spacing is more effective).
- Prepare the slope before beginning installation.
- Dig small trenches across the slope on the contour. The trench depth should be 1/4 to 1/3 of the thickness of the roll, and the width should equal the roll diameter, in order to provide area to backfill the trench.

- It is critical that rolls are installed perpendicular to water movement, and parallel to the slope contour.
- Start building trenches and installing rolls from the bottom of the slope and work up.
- It is recommended that pilot holes be driven through the fiber roll. Use a straight bar to drive holes through the roll and into the soil for the wooden stakes.
- Turn the ends of the fiber roll up slope to prevent runoff from going around the roll.
- Stake fiber rolls into the trench.
  - Drive stakes at the end of each fiber roll and spaced 4 ft maximum on center.
  - Use wood stakes with a nominal classification of 0.75 by 0.75 in. and minimum length of 24 in.
- If more than one fiber roll is placed in a row, the rolls should be overlapped, not abutted.
- See typical fiber roll installation details at the end of this fact sheet.

## **Removal**

- Fiber rolls can be left in place or removed depending on the type of fiber roll and application (temporary vs. permanent installation). Typically, fiber rolls encased with plastic netting are used for a temporary application because the netting does not biodegrade. Fiber rolls used in a permanent application are typically encased with a biodegradeable material and are left in place. Removal of a fiber roll used in a permanent application can result in greater disturbance.
- Temporary installations should only be removed when up gradient areas are stabilized per General Permit requirements, and/or pollutant sources no longer present a hazard. But, they should also be removed before vegetation becomes too mature so that the removal process does not disturb more soil and vegetation than is necessary.

## **Costs**

Material costs for regular fiber rolls range from \$20 - \$30 per 25 ft roll.

Material costs for PAM impregnated fiber rolls range between 7.00-\$9.00 per linear foot, based upon vendor research.

## **Inspection and Maintenance**

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Repair or replace split, torn, unraveling, or slumping fiber rolls.
- If the fiber roll is used as a sediment capture device, or as an erosion control device to maintain sheet flows, sediment that accumulates in the BMP should be periodically removed



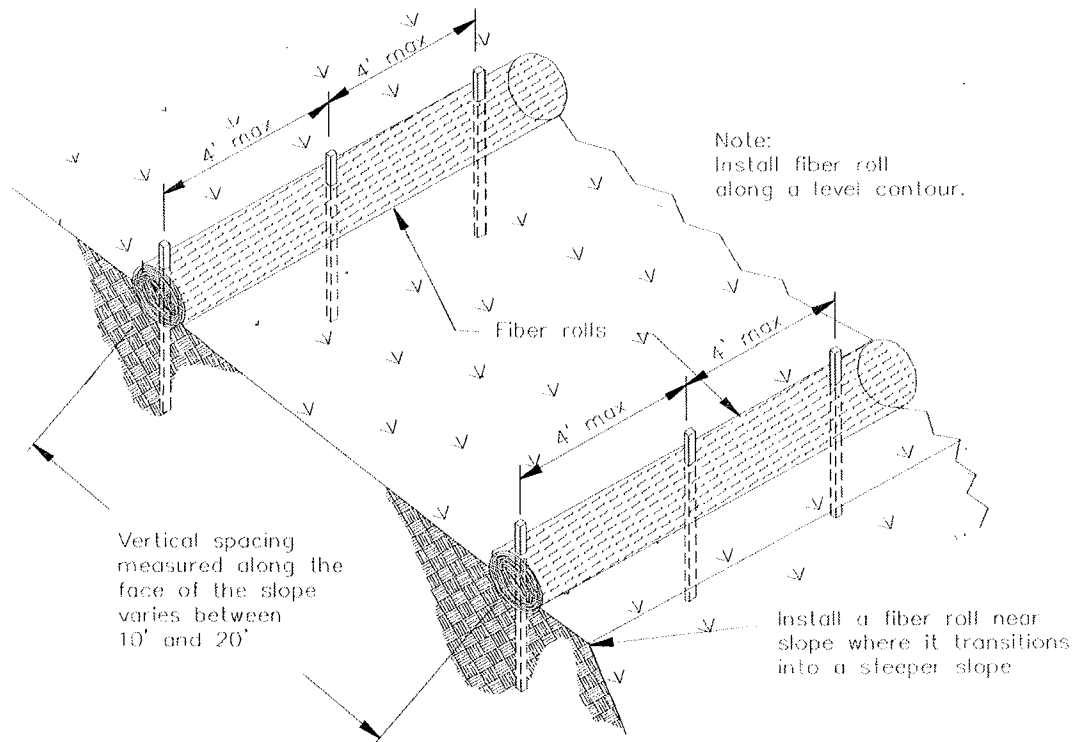
in order to maintain BMP effectiveness. Sediment should be removed when sediment accumulation reaches one-third the designated sediment storage depth.

- If fiber rolls are used for erosion control, such as in a check dam, sediment removal should not be required as long as the system continues to control the grade. Sediment control BMPs will likely be required in conjunction with this type of application.
- Repair any rills or gullies promptly.

## References

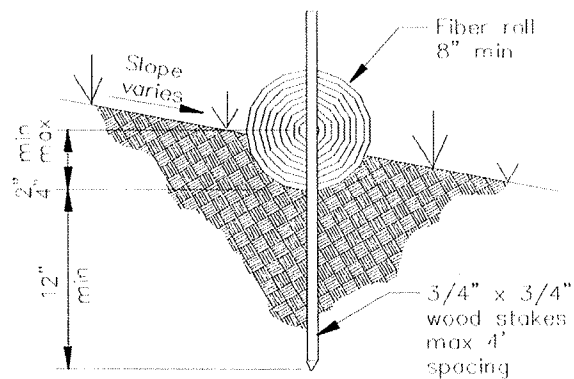
Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Erosion and Sediment Control Manual, Oregon Department of Environmental Quality, February 2005.



TYPICAL FIBER ROLL INSTALLATION

N.T.S.



ENTRENCHMENT DETAIL

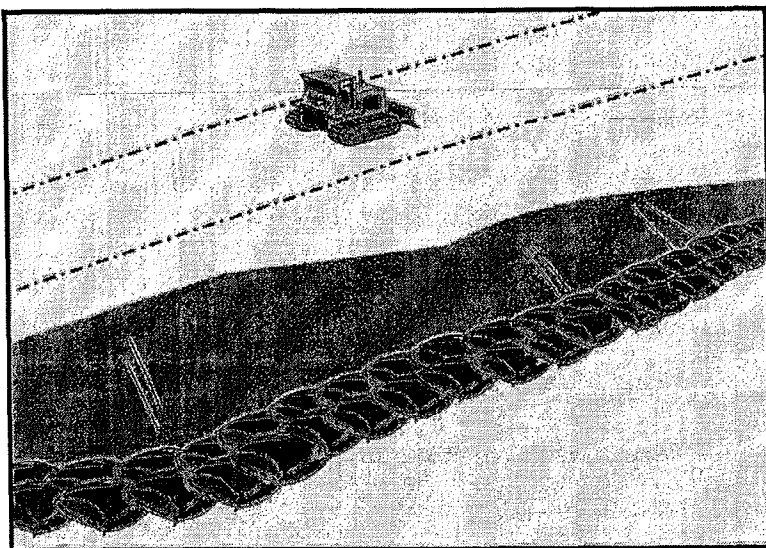
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## Violation No. 8

Failure to Manage Run-On and Runoff  
(7 days)

# Sandbag Barrier

SE-8



## Categories

EC	Erosion Control	<input checked="" type="checkbox"/>
SE	Sediment Control	<input checked="" type="checkbox"/>
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

## Legend:

- ☒ Primary Category
- ☒ Secondary Category

## Description and Purpose

A sandbag barrier is a series of sand-filled bags placed on a level contour to intercept or to divert sheet flows. Sandbag barriers placed on a level contour pond sheet flow runoff, allowing sediment to settle out.

## Suitable Applications

Sandbag barriers may be suitable:

- As a linear sediment control measure:
  - Below the toe of slopes and erodible slopes.
  - As sediment traps at culvert/pipe outlets.
  - Below other small cleared areas.
  - Along the perimeter of a site.
  - Down slope of exposed soil areas.
  - Around temporary stockpiles and spoil areas.
  - Parallel to a roadway to keep sediment off paved areas.
  - Along streams and channels.
- As linear erosion control measure:
  - Along the face and at grade breaks of exposed and erodible slopes to shorten slope length and spread runoff as sheet flow.

## Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

## Potential Alternatives

- SE-1 Silt Fence
- SE-5 Fiber Rolls
- SE-6 Gravel Bag Berm
- SE-14 Biofilter Bags





- At the top of slopes to divert runoff away from disturbed slopes.
- As check dams across mildly sloped construction roads.

## Limitations

- It is necessary to limit the drainage area upstream of the barrier to 5 acres.
- Sandbags are not intended to be used as filtration devices.
- Easily damaged by construction equipment.
- Degraded sandbags may rupture when removed, spilling sand.
- Sand is easily transported by runoff if bag is damaged or ruptured.
- Installation can be labor intensive.
- Durability of sandbags is somewhat limited and bags may need to be replaced when installation is required for longer than 6 months. When used to detain concentrated flows, maintenance requirements increase.
- Burlap should not be used for sandbags.

## Implementation

### General

A sandbag barrier consists of a row of sand-filled bags placed on a level contour. When appropriately placed, a sandbag barrier intercepts and slows sheet flow runoff, causing temporary ponding. The temporary ponding allows sediment to settle. Sand-filled bags have limited porosity, which is further limited as the fine sand tends to quickly plug with sediment, limiting or completely blocking the rate of flow through the barrier. If a porous barrier is desired, consider SE-1, Silt Fence, SE-5, Fiber Rolls, SE-6, Gravel Bag Berms or SE-14, Biofilter Bags. Sandbag barriers also interrupt the slope length and thereby reduce erosion by reducing the tendency of sheet flows to concentrate into rivulets which erode rills, and ultimately gullies, into disturbed, sloped soils. Sandbag barriers are similar to gravel bag berms, but less porous. Generally, sandbag barriers should be used in conjunction with temporary soil stabilization controls up slope to provide effective erosion and sediment control.

### Design and Layout

- Locate sandbag barriers on a level contour.
  - When used for slope interruption, the following slope/sheet flow length combinations apply:
    - Slope inclination of 4:1 (H:V) or flatter: Sandbags should be placed at a maximum interval of 20 ft, with the first row near the slope toe.
    - Slope inclination between 4:1 and 2:1 (H:V): Sandbags should be placed at a maximum interval of 15 ft. (a closer spacing is more effective), with the first row near the slope toe.
- Slope inclination 2:1 (H:V) or greater: Sandbags should be placed at a maximum interval of 10 ft. (a closer spacing is more effective), with the first row near the slope toe.

- Turn the ends of the sandbag barrier up slope to prevent runoff from going around the barrier.
- Allow sufficient space up slope from the barrier to allow ponding, and to provide room for sediment storage.
- For installation near the toe of the slope, sand bag barriers should be set back from the slope toe to facilitate cleaning. Where specific site conditions do not allow for a set-back, the sand bag barrier may be constructed on the toe of the slope. To prevent flows behind the barrier, bags can be placed perpendicular to a berm to serve as cross barriers.
- Drainage area should not exceed 5 acres.
- Stack sandbags at least three bags high.
- Butt ends of bags tightly.
- Overlap butt joints of row beneath with each successive row.
- Use a pyramid approach when stacking bags.
- In non-traffic areas
  - Height = 18 in. maximum
  - Top width = 24 in. minimum for three or more layer construction
  - Side slope = 2:1 (H:V) or flatter
- In construction traffic areas
  - Height = 12 in. maximum
  - Top width = 24 in. minimum for three or more layer construction.
  - Side slopes = 2:1 (H:V) or flatter.
- See typical sandbag barrier installation details at the end of this fact sheet.

## **Materials**

- **Sandbag Material:** Sandbag should be woven polypropylene, polyethylene or polyamide fabric, minimum unit weight of 4 ounces/yd<sup>2</sup>, Mullen burst strength exceeding 300 lb/in<sup>2</sup> in conformance with the requirements in ASTM designation D3786, and ultraviolet stability exceeding 70% in conformance with the requirements in ASTM designation D4355. Use of burlap is not an acceptable substitute, as sand can more easily mobilize out of burlap.
- **Sandbag Size:** Each sand-filled bag should have a length of 18 in., width of 12 in., thickness of 3 in., and mass of approximately 33 lbs. Bag dimensions are nominal, and may vary based on locally available materials.

- **Fill Material:** All sandbag fill material should be non-cohesive, Class 3 (Caltrans Standard Specification, Section 25) permeable material free from clay and deleterious material, such as recycled concrete or asphalt..

## Costs

Empty sandbags cost \$0.25 - \$0.75. Average cost of fill material is \$8 per yd<sup>3</sup>. Additional labor is required to fill the bags. Pre-filled sandbags are more expensive at \$1.50 - \$2.00 per bag. These costs are based upon vendor research.

## Inspection and Maintenance

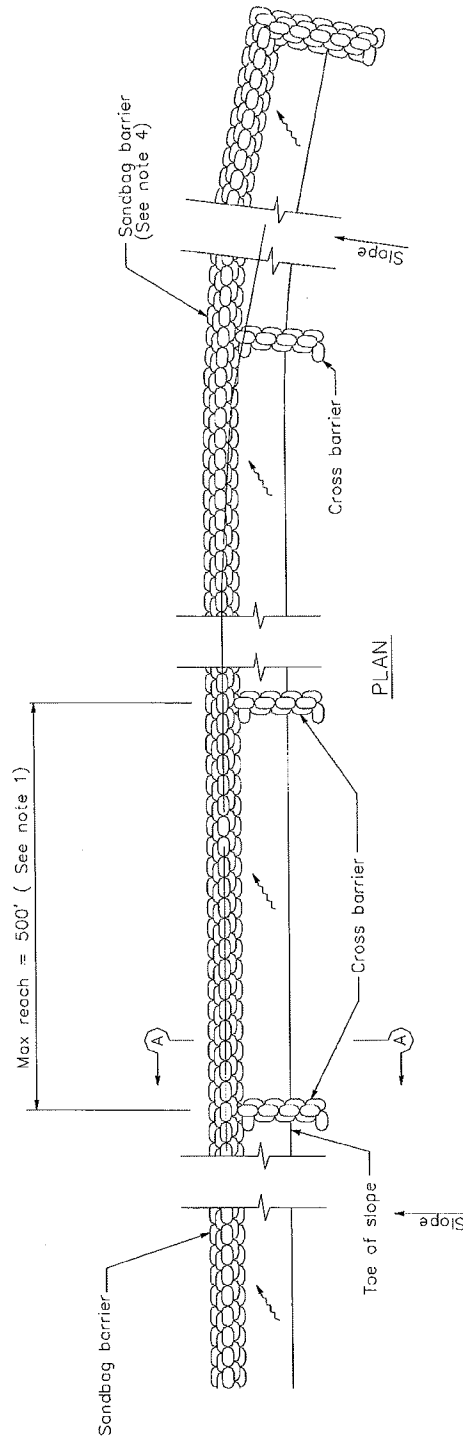
- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Sandbags exposed to sunlight will need to be replaced every two to three months due to degradation of the bags.
- Reshape or replace sandbags as needed.
- Repair washouts or other damage as needed.
- Sediment that accumulates behind the BMP should be periodically removed in order to maintain BMP effectiveness. Sediment should be removed when the sediment accumulation reaches one-third of the barrier height.
- Remove sandbags when no longer needed and recycle sand fill whenever possible and properly dispose of bag material. Remove sediment accumulation, and clean, re-grade, and stabilize the area.

## References

Standard Specifications for Construction of Local Streets and Roads, California Department of Transportation (Caltrans), July 2002.

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Erosion and Sediment Control Manual, Oregon Department of Environmental Quality, February 2005.

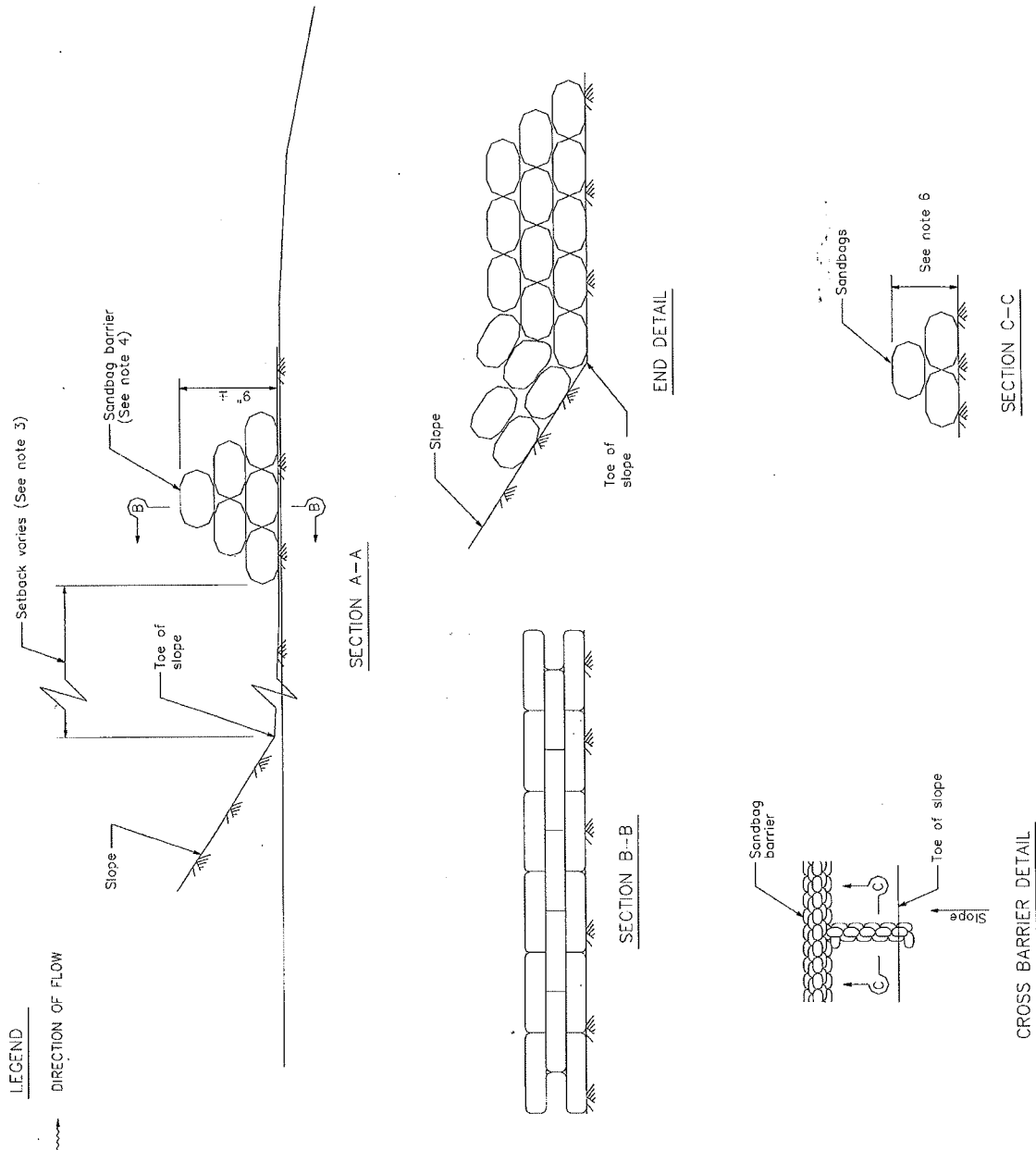


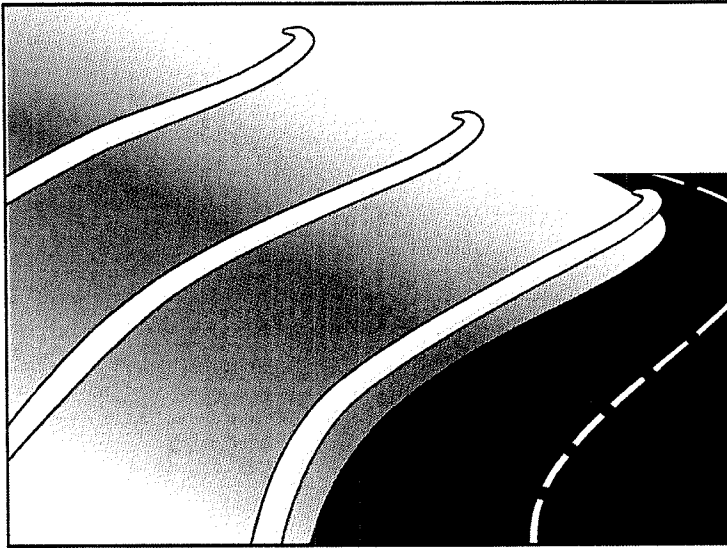
## SANDBAG BARRIER

### NOTES

1. Construct the length of each reach so that the change in base elevation along the reach does not exceed  $1/2$  the height of the linear barrier. In no case shall the reach length exceed 500'.
2. Place sandbags tightly.
3. Dimension may vary to fit field condition.
4. Sandbag barrier shall be a minimum of 3 bags high.
5. The end of the barrier shall be turned up slope.
6. Cross barriers shall be a min of  $1/2$  and a max of  $2/3$  the height of the linear barrier.
7. Sandbag rows and layers shall be staggered to eliminate gaps.







## Description and Purpose

A fiber roll consists of straw, coir, or other biodegradable materials bound into a tight tubular roll wrapped by netting, which can be photodegradable or natural. Additionally, gravel core fiber rolls are available, which contain an imbedded ballast material such as gravel or sand for additional weight when staking the rolls are not feasible (such as use as inlet protection). When fiber rolls are placed at the toe and on the face of slopes along the contours, they intercept runoff, reduce its flow velocity, release the runoff as sheet flow, and provide removal of sediment from the runoff (through sedimentation). By interrupting the length of a slope, fiber rolls can also reduce sheet and rill erosion until vegetation is established.

## Suitable Applications

Fiber rolls may be suitable:

- Along the toe, top, face, and at grade breaks of exposed and erodible slopes to shorten slope length and spread runoff as sheet flow.
- At the end of a downward slope where it transitions to a steeper slope.
- Along the perimeter of a project.
- As check dams in unlined ditches with minimal grade.
- Down-slope of exposed soil areas.
- At operational storm drains as a form of inlet protection.

## Categories

EC	Erosion Control	<input checked="" type="checkbox"/>
SE	Sediment Control	<input checked="" type="checkbox"/>
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

## Legend:

- ☒ Primary Category
- ☒ Secondary Category

## Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

## Potential Alternatives

- SE-1 Silt Fence
- SE-6 Gravel Bag Berm
- SE-8 Sandbag Barrier
- SE-14 Biofilter Bags



- Around temporary stockpiles.

## **Limitations**

- Fiber rolls are not effective unless trenched in and staked.
- Not intended for use in high flow situations.
- Difficult to move once saturated.
- If not properly staked and trenched in, fiber rolls could be transported by high flows.
- Fiber rolls have a very limited sediment capture zone.
- Fiber rolls should not be used on slopes subject to creep, slumping, or landslide.
- Rolls typically function for 12-24 months depending upon local conditions.

## **Implementation**

### ***Fiber Roll Materials***

- Fiber rolls should be prefabricated.
- Fiber rolls may come manufactured containing polyacrylamide (PAM), a flocculating agent within the roll. Fiber rolls impregnated with PAM provide additional sediment removal capabilities and should be used in areas with fine, clayey or silty soils to provide additional sediment removal capabilities. Monitoring may be required for these installations.
- Fiber rolls are made from weed free rice straw, flax, or a similar agricultural material bound into a tight tubular roll by netting.
- Typical fiber rolls vary in diameter from 9 in. to 20 in. Larger diameter rolls are available as well.

### ***Installation***

- Locate fiber rolls on level contours spaced as follows:
  - Slope inclination of 4:1 (H:V) or flatter: Fiber rolls should be placed at a maximum interval of 20 ft.
  - Slope inclination between 4:1 and 2:1 (H:V): Fiber Rolls should be placed at a maximum interval of 15 ft. (a closer spacing is more effective).
  - Slope inclination 2:1 (H:V) or greater: Fiber Rolls should be placed at a maximum interval of 10 ft. (a closer spacing is more effective).
- Prepare the slope before beginning installation.
- Dig small trenches across the slope on the contour. The trench depth should be 1/4 to 1/3 of the thickness of the roll, and the width should equal the roll diameter, in order to provide area to backfill the trench.

- It is critical that rolls are installed perpendicular to water movement, and parallel to the slope contour.
- Start building trenches and installing rolls from the bottom of the slope and work up.
- It is recommended that pilot holes be driven through the fiber roll. Use a straight bar to drive holes through the roll and into the soil for the wooden stakes.
- Turn the ends of the fiber roll up slope to prevent runoff from going around the roll.
- Stake fiber rolls into the trench.
  - Drive stakes at the end of each fiber roll and spaced 4 ft maximum on center.
  - Use wood stakes with a nominal classification of 0.75 by 0.75 in. and minimum length of 24 in.
- If more than one fiber roll is placed in a row, the rolls should be overlapped, not abutted.
- See typical fiber roll installation details at the end of this fact sheet.

## **Removal**

- Fiber rolls can be left in place or removed depending on the type of fiber roll and application (temporary vs. permanent installation). Typically, fiber rolls encased with plastic netting are used for a temporary application because the netting does not biodegrade. Fiber rolls used in a permanent application are typically encased with a biodegradeable material and are left in place. Removal of a fiber roll used in a permanent application can result in greater disturbance.
- Temporary installations should only be removed when up gradient areas are stabilized per General Permit requirements, and/or pollutant sources no longer present a hazard. But, they should also be removed before vegetation becomes too mature so that the removal process does not disturb more soil and vegetation than is necessary.

## **Costs**

Material costs for regular fiber rolls range from \$20 - \$30 per 25 ft roll.

Material costs for PAM impregnated fiber rolls range between 7.00-\$9.00 per linear foot, based upon vendor research.

## **Inspection and Maintenance**

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Repair or replace split, torn, unraveling, or slumping fiber rolls.
- If the fiber roll is used as a sediment capture device, or as an erosion control device to maintain sheet flows, sediment that accumulates in the BMP should be periodically removed



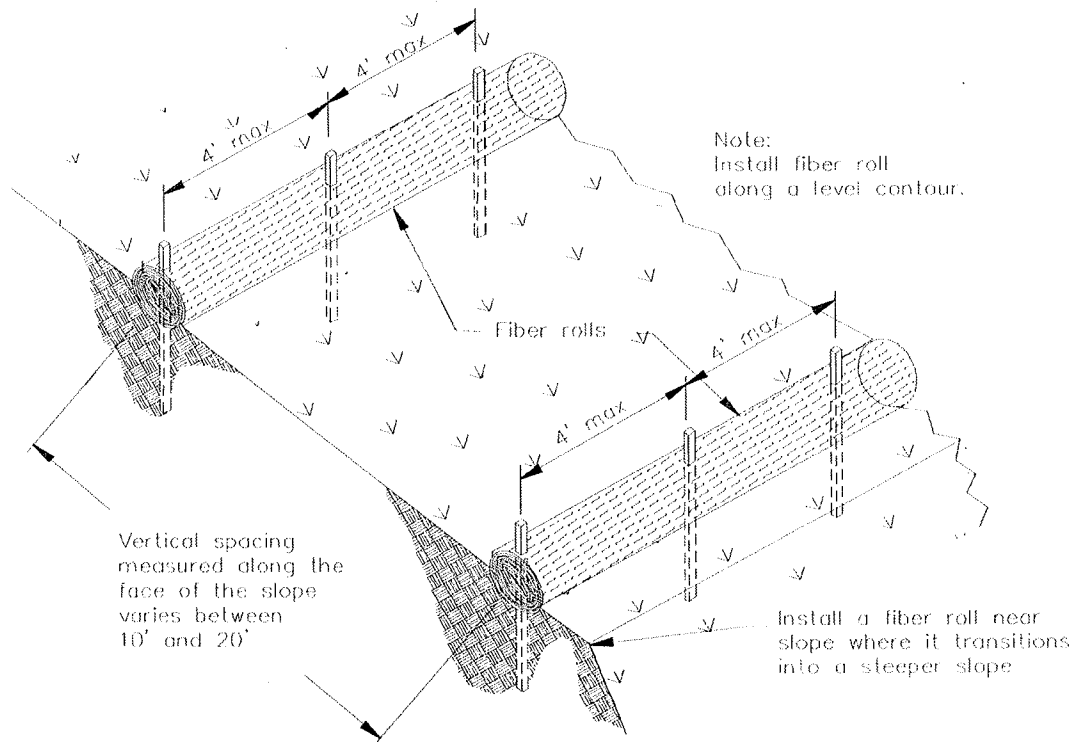
in order to maintain BMP effectiveness. Sediment should be removed when sediment accumulation reaches one-third the designated sediment storage depth.

- If fiber rolls are used for erosion control, such as in a check dam, sediment removal should not be required as long as the system continues to control the grade. Sediment control BMPs will likely be required in conjunction with this type of application.
- Repair any rills or gullies promptly.

## References

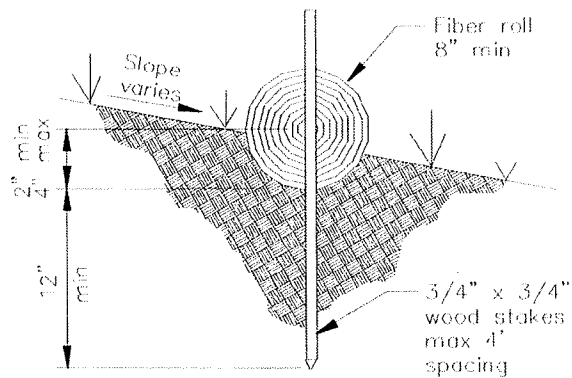
Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Erosion and Sediment Control Manual, Oregon Department of Environmental Quality, February 2005.



TYPICAL FIBER ROLL INSTALLATION

N.T.S.



ENTRENCHMENT DETAIL

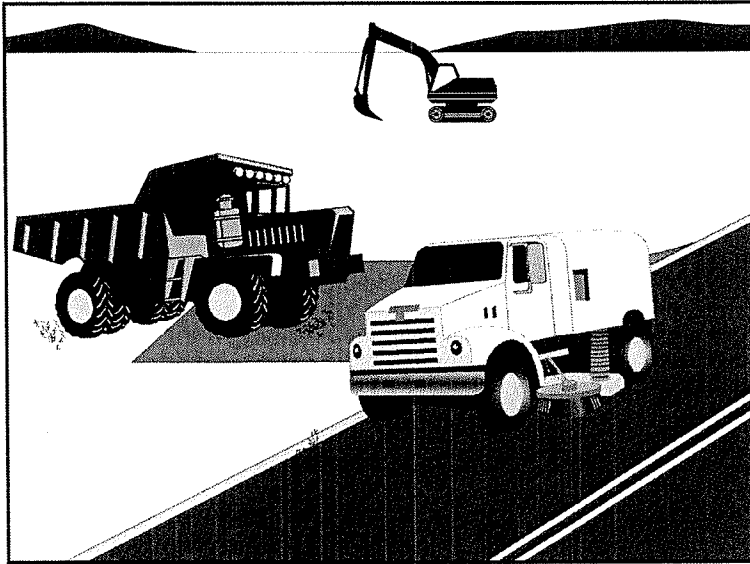
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## Violation No. 9

Failure to Remove Sediment or Other  
Construction Materials from Roads  
(10 days)

# Street Sweeping and Vacuuming

## SE-7



### Description and Purpose

Street sweeping and vacuuming includes use of self-propelled and walk-behind equipment to remove sediment from streets and roadways, and to clean paved surfaces in preparation for final paving. Sweeping and vacuuming prevents sediment from the project site from entering storm drains or receiving waters.

### Suitable Applications

Sweeping and vacuuming are suitable anywhere sediment is tracked from the project site onto public or private paved streets and roads, typically at points of egress. Sweeping and vacuuming are also applicable during preparation of paved surfaces for final paving.

### Limitations

Sweeping and vacuuming may not be effective when sediment is wet or when tracked soil is caked (caked soil may need to be scraped loose).

### Implementation

- Controlling the number of points where vehicles can leave the site will allow sweeping and vacuuming efforts to be focused, and perhaps save money.
- Inspect potential sediment tracking locations daily.
- Visible sediment tracking should be swept or vacuumed on a daily basis.
- Do not use kick brooms or sweeper attachments. These tend to spread the dirt rather than remove it.

### Categories

EC	Erosion Control	
SE	Sediment Control	<input checked="" type="checkbox"/>
TC	Tracking Control	<input checked="" type="checkbox"/>
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

### Legend:

- ☒ Primary Objective
- ☒ Secondary Objective

### Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	
Trash	<input checked="" type="checkbox"/>
Metals	
Bacteria	
Oil and Grease	<input checked="" type="checkbox"/>
Organics	

### Potential Alternatives

None





- If not mixed with debris or trash, consider incorporating the removed sediment back into the project

## Costs

Rental rates for self-propelled sweepers vary depending on hopper size and duration of rental. Expect rental rates from \$58/hour (3 yd<sup>3</sup> hopper) to \$88/hour (9 yd<sup>3</sup> hopper), plus operator costs. Hourly production rates vary with the amount of area to be swept and amount of sediment. Match the hopper size to the area and expect sediment load to minimize time spent dumping.

## Inspection and Maintenance

- Inspect BMPs in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- When actively in use, points of ingress and egress must be inspected daily.
- When tracked or spilled sediment is observed outside the construction limits, it must be removed at least daily. More frequent removal, even continuous removal, may be required in some jurisdictions.
- Be careful not to sweep up any unknown substance or any object that may be potentially hazardous.
- Adjust brooms frequently; maximize efficiency of sweeping operations.
- After sweeping is finished, properly dispose of sweeper wastes at an approved dumpsite.

## References

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), November 2000.

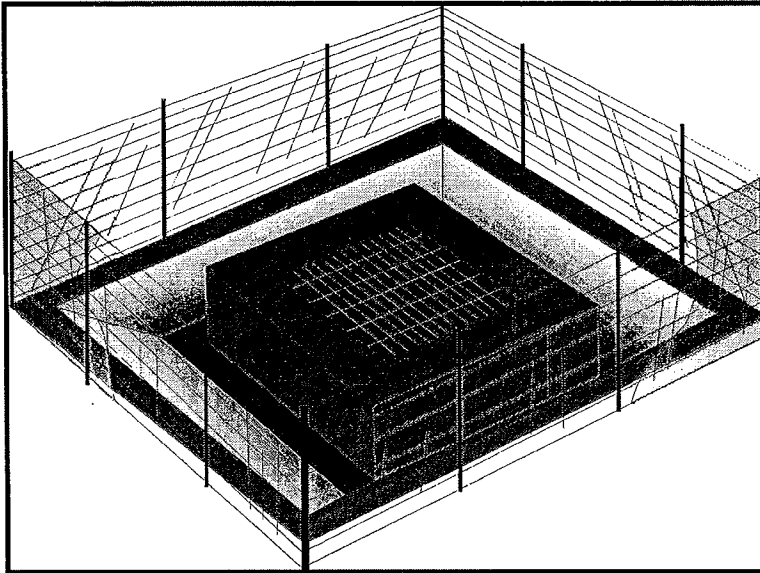
Labor Surcharge and Equipment Rental Rates, State of California Department of Transportation (Caltrans), April 1, 2002 – March 31, 2003.

## Violation No. 10

Failure to Protect Storm Drain Inlets  
(3 days)

# Storm Drain Inlet Protection

SE-10



## Description and Purpose

Storm drain inlet protection consists of a sediment filter or an impounding area in, around or upstream of a storm drain, drop inlet, or curb inlet. Storm drain inlet protection measures temporarily pond runoff before it enters the storm drain, allowing sediment to settle. Some filter configurations also remove sediment by filtering, but usually the ponding action results in the greatest sediment reduction. Temporary geotextile storm drain inserts attach underneath storm drain grates to capture and filter storm water.

## Suitable Applications

Every storm drain inlet receiving runoff from unstabilized or otherwise active work areas should be protected. Inlet protection should be used in conjunction with other erosion and sediment controls to prevent sediment-laden stormwater and non-stormwater discharges from entering the storm drain system.

## Limitations

- Drainage area should not exceed 1 acre.
- In general straw bales should not be used as inlet protection.
- Requires an adequate area for water to pond without encroaching into portions of the roadway subject to traffic.

## Categories

EC	Erosion Control	
SE	Sediment Control	<input checked="" type="checkbox"/>
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

## Legend:

- ☒ Primary Category
- ☒ Secondary Category

## Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	
Trash	<input checked="" type="checkbox"/>
Metals	
Bacteria	
Oil and Grease	
Organics	

## Potential Alternatives

- SE-1 Silt Fence
- SE-5 Fiber Rolls
- SE-6 Gravel Bag Berm
- SE-8 Sandbag Barrier
- SE-14 Biofilter Bags



- Sediment removal may be inadequate to prevent sediment discharges in high flow conditions or if runoff is heavily sediment laden. If high flow conditions are expected, use other onsite sediment trapping techniques in conjunction with inlet protection.
- Frequent maintenance is required.
- Limit drainage area to 1 acre maximum. For drainage areas larger than 1 acre, runoff should be routed to a sediment-trapping device designed for larger flows. See BMPs SE-2, Sediment Basin, and SE-3, Sediment Traps.
- Excavated drop inlet sediment traps are appropriate where relatively heavy flows are expected, and overflow capability is needed.

## Implementation

### *General*

Inlet control measures presented in this handbook should not be used for inlets draining more than one acre. Runoff from larger disturbed areas should be first routed through SE-2, Sediment Basin or SE-3, Sediment Trap and/or used in conjunction with other drainage control, erosion control, and sediment control BMPs to protect the site. Different types of inlet protection are appropriate for different applications depending on site conditions and the type of inlet. Alternative methods are available in addition to the methods described/shown herein such as prefabricated inlet insert devices, or gutter protection devices.

### *Design and Layout*

Identify existing and planned storm drain inlets that have the potential to receive sediment-laden surface runoff. Determine if storm drain inlet protection is needed and which method to use.

- The key to successful and safe use of storm drain inlet protection devices is to know where runoff that is directed toward the inlet to be protected will pond or be diverted as a result of installing the protection device.
  - Determine the acceptable location and extent of ponding in the vicinity of the drain inlet. The acceptable location and extent of ponding will influence the type and design of the storm drain inlet protection device.
  - Determine the extent of potential runoff diversion caused by the storm drain inlet protection device. Runoff ponded by inlet protection devices may flow around the device and towards the next downstream inlet. In some cases, this is acceptable; in other cases, serious erosion or downstream property damage can be caused by these diversions. The possibility of runoff diversions will influence whether or not storm drain inlet protection is suitable; and, if suitable, the type and design of the device.
- The location and extent of ponding, and the extent of diversion, can usually be controlled through appropriate placement of the inlet protection device. In some cases, moving the inlet protection device a short distance upstream of the actual inlet can provide more efficient sediment control, limit ponding to desired areas, and prevent or control diversions.



- Six types of inlet protection are presented below. However, it is recognized that other effective methods and proprietary devices exist and may be selected.
  - Silt Fence: Appropriate for drainage basins with less than a 5% slope, sheet flows, and flows under 0.5 cfs.
  - Excavated Drop Inlet Sediment Trap: An excavated area around the inlet to trap sediment (SE-3).
  - Gravel bag barrier: Used to create a small sediment trap upstream of inlets on sloped, paved streets. Appropriate for sheet flow or when concentrated flow may exceed 0.5 cfs, and where overtopping is required to prevent flooding.
  - Block and Gravel Filter: Appropriate for flows greater than 0.5 cfs.
  - Temporary Geotextile Storm drain Inserts: Different products provide different features. Refer to manufacturer details for targeted pollutants and additional features.
  - Biofilter Bag Barrier: Used to create a small retention area upstream of inlets and can be located on pavement or soil. Biofilter bags slowly filter runoff allowing sediment to settle out. Appropriate for flows under 0.5 cfs.
- Select the appropriate type of inlet protection and design as referred to or as described in this fact sheet.
- Provide area around the inlet for water to pond without flooding structures and property.
- Grates and spaces around all inlets should be sealed to prevent seepage of sediment-laden water.
- Excavate sediment sumps (where needed) 1 to 2 ft with 2:1 side slopes around the inlet.

## **Installation**

- **DI Protection Type 1 - Silt Fence** - Similar to constructing a silt fence; see BMP SE-1, Silt Fence. Do not place fabric underneath the inlet grate since the collected sediment may fall into the drain inlet when the fabric is removed or replaced and water flow through the grate will be blocked resulting in flooding. See typical Type 1 installation details at the end of this fact sheet.
  1. Excavate a trench approximately 6 in. wide and 6 in. deep along the line of the silt fence inlet protection device.
  2. Place 2 in. by 2 in. wooden stakes around the perimeter of the inlet a maximum of 3 ft apart and drive them at least 18 in. into the ground or 12 in. below the bottom of the trench. The stakes should be at least 48 in.
  3. Lay fabric along bottom of trench, up side of trench, and then up stakes. See SE-1, Silt Fence, for details. The maximum silt fence height around the inlet is 24 in.
  4. Staple the filter fabric (for materials and specifications, see SE-1, Silt Fence) to wooden stakes. Use heavy-duty wire staples at least 1 in. in length.

5. Backfill the trench with gravel or compacted earth all the way around.
- **DI Protection Type 2 - Excavated Drop Inlet Sediment Trap** - Install filter fabric fence in accordance with DI Protection Type 1. Size excavated trap to provide a minimum storage capacity calculated at the rate 67 yd<sup>3</sup>/acre of drainage area. See typical Type 2 installation details at the end of this fact sheet.
  - **DI Protection Type 3 - Gravel bag** - Flow from a severe storm should not overtop the curb. In areas of high clay and silts, use filter fabric and gravel as additional filter media. Construct gravel bags in accordance with SE-6, Gravel Bag Berm. Gravel bags should be used due to their high permeability. See typical Type 3 installation details at the end of this fact sheet.
    1. Construct on gently sloping street.
    2. Leave room upstream of barrier for water to pond and sediment to settle.
    3. Place several layers of gravel bags – overlapping the bags and packing them tightly together.
    4. Leave gap of one bag on the top row to serve as a spillway. Flow from a severe storm (e.g., 10 year storm) should not overtop the curb.
  - **DI Protection Type 4 – Block and Gravel Filter** - Block and gravel filters are suitable for curb inlets commonly used in residential, commercial, and industrial construction. See typical Type 4 installation details at the end of this fact sheet.
    1. Place hardware cloth or comparable wire mesh with 0.5 in. openings over the drop inlet so that the wire extends a minimum of 1 ft beyond each side of the inlet structure. If more than one strip is necessary, overlap the strips. Place woven geotextile over the wire mesh.
    2. Place concrete blocks lengthwise on their sides in a single row around the perimeter of the inlet, so that the open ends face outward, not upward. The ends of adjacent blocks should abut. The height of the barrier can be varied, depending on design needs, by stacking combinations of blocks that are 4 in., 8 in., and 12 in. wide. The row of blocks should be at least 12 in. but no greater than 24 in. high.
    3. Place wire mesh over the outside vertical face (open end) of the concrete blocks to prevent stone from being washed through the blocks. Use hardware cloth or comparable wire mesh with 0.5 in. opening.
    4. Pile washed stone against the wire mesh to the top of the blocks. Use 0.75 to 3 in.
  - **DI Protection Type 5 – Temporary Geotextile Insert (proprietary)** – Many types of temporary inserts are available. Most inserts fit underneath the grate of a drop inlet or inside of a curb inlet and are fastened to the outside of the grate or curb. These inserts are removable and many can be cleaned and reused. Installation of these inserts differs between manufacturers. Please refer to manufacturer instruction for installation of proprietary devices.

- **DI Protection Type 6 - Biofilter bags** – Biofilter bags may be used as a substitute for gravel bags in low-flow situations. Biofilter bags should conform to specifications detailed in SE-14, Biofilter bags.
  1. Construct in a gently sloping area.
  2. Biofilter bags should be placed around inlets to intercept runoff flows.
  3. All bag joints should overlap by 6 in.
  4. Leave room upstream for water to pond and for sediment to settle out.
  5. Stake bags to the ground as described in the following detail. Stakes may be omitted if bags are placed on a paved surface.

## Costs

- Average annual cost for installation and maintenance of DI Type 1-4 and 6 (one year useful life) is \$200 per inlet.
- Temporary geotextile inserts are proprietary and cost varies by region. These inserts can often be reused and may have greater than 1 year of use if maintained and kept undamaged. Average cost per insert ranges from \$50-75 plus installation, but costs can exceed \$100. This cost does not include maintenance.

## Inspection and Maintenance

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Silt Fences. If the fabric becomes clogged, torn, or degrades, it should be replaced. Make sure the stakes are securely driven in the ground and are in good shape (i.e., not bent, cracked, or splintered, and are reasonably perpendicular to the ground). Replace damaged stakes. At a minimum, remove the sediment behind the fabric fence when accumulation reaches one-third the height of the fence or barrier height.
- Gravel Filters. If the gravel becomes clogged with sediment, it should be carefully removed from the inlet and either cleaned or replaced. Since cleaning gravel at a construction site may be difficult, consider using the sediment-laden stone as fill material and put fresh stone around the inlet. Inspect bags for holes, gashes, and snags, and replace bags as needed. Check gravel bags for proper arrangement and displacement.
- Sediment that accumulates in the BMP should be periodically removed in order to maintain BMP effectiveness. Sediment should be removed when the sediment accumulation reaches one-third of the barrier height.
- Inspect and maintain temporary geotextile insert devices according to manufacturer's specifications.
- Remove storm drain inlet protection once the drainage area is stabilized.

- Clean and regrade area around the inlet and clean the inside of the storm drain inlet, as it should be free of sediment and debris at the time of final inspection.

## References

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

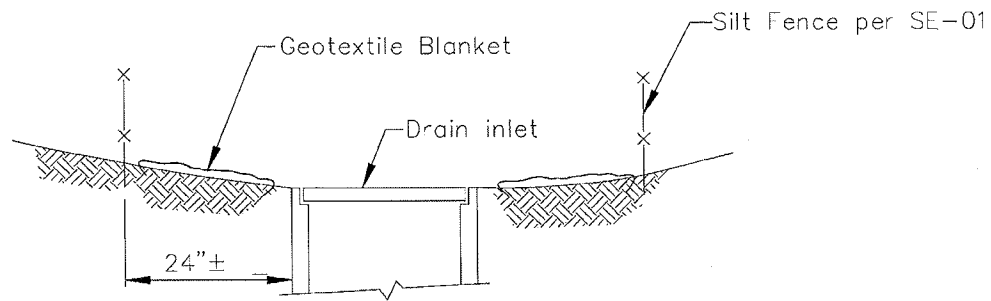
Stormwater Management Manual for The Puget Sound Basin, Washington State Department of Ecology, Public Review Draft, 1991.

Erosion and Sediment Control Manual, Oregon Department of Environmental Quality, February 2005.

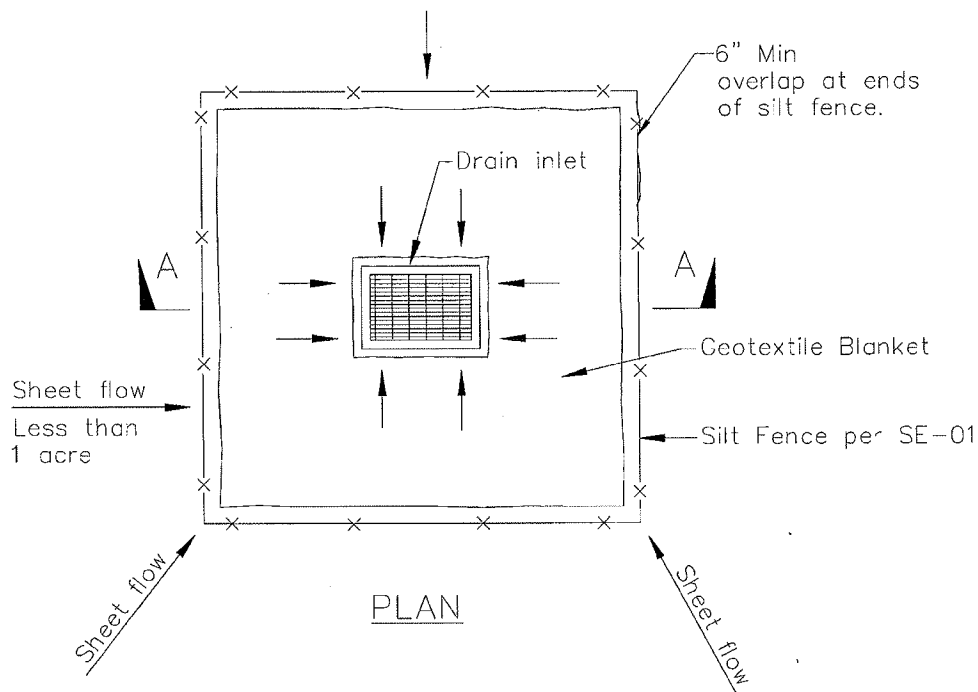


# Storm Drain Inlet Protection

SE-10



SECTION A-A



PLAN

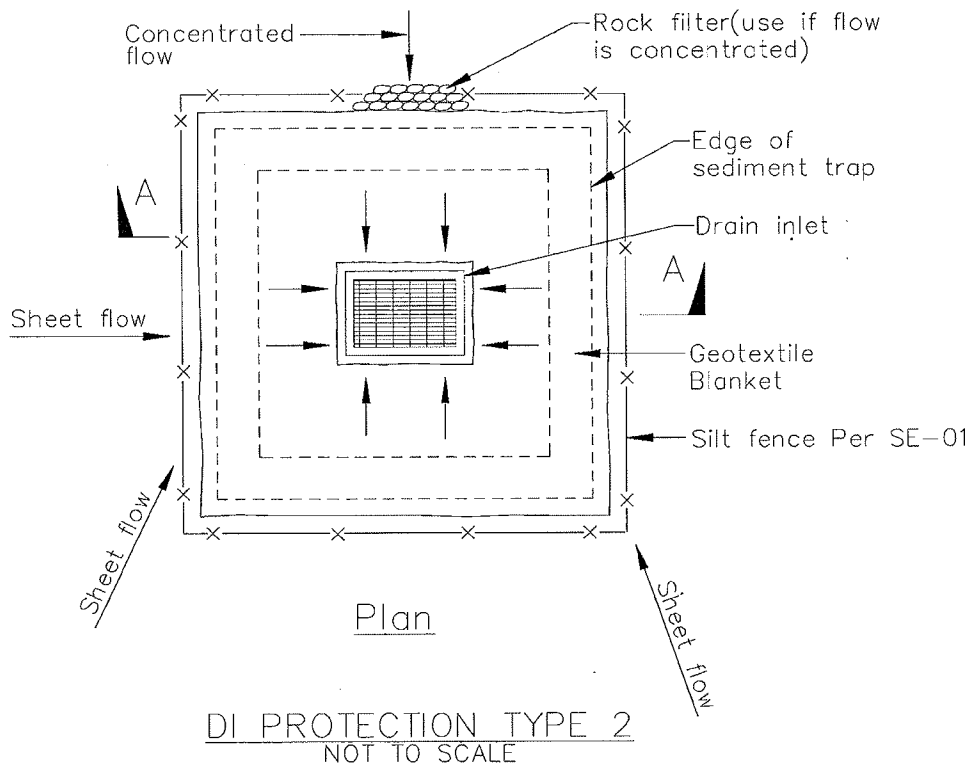
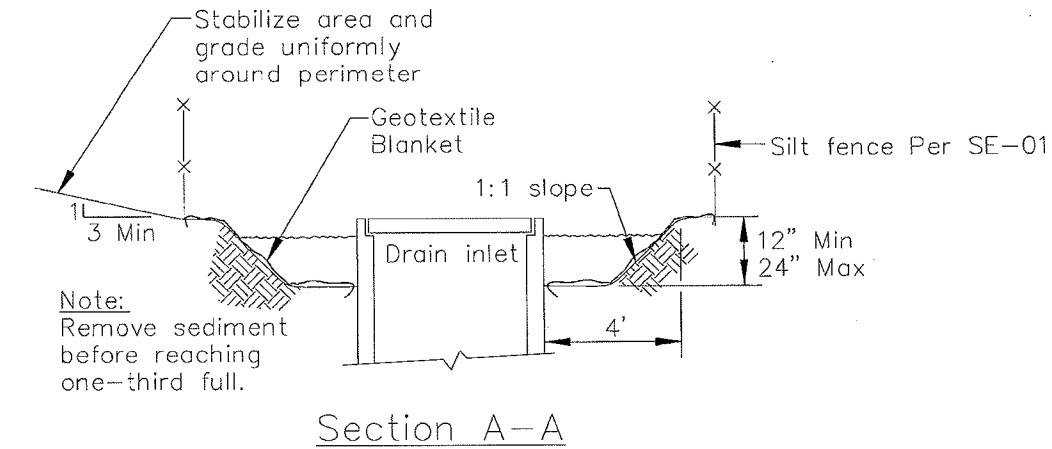
DI PROTECTION TYPE 1  
NOT TO SCALE

## NOTES:

1. For use in areas where grading has been completed and final soil stabilization and seeding are pending.
2. Not applicable in paved areas.
3. Not applicable with concentrated flows.

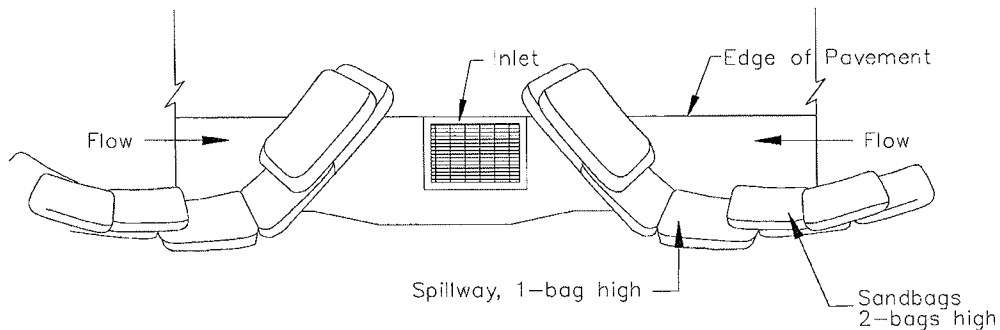
# Storm Drain Inlet Protection

SE-10

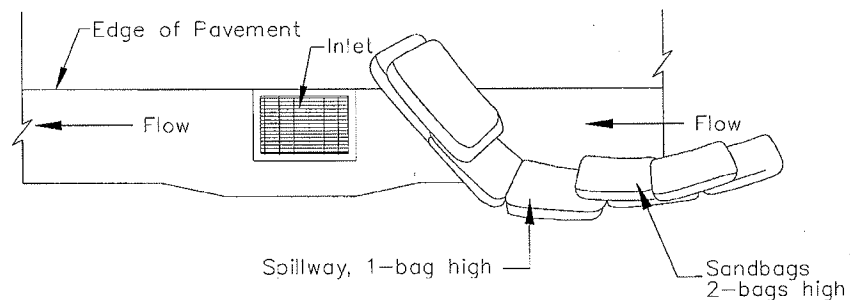


## Notes

1. For use in cleared and grubbed and in graded areas.
2. Shape basin so that longest inflow area faces longest length of trap.
3. For concentrated flows, shape basin in 2:1 ratio with length oriented towards direction of flow.



TYPICAL PROTECTION FOR INLET ON SUMP

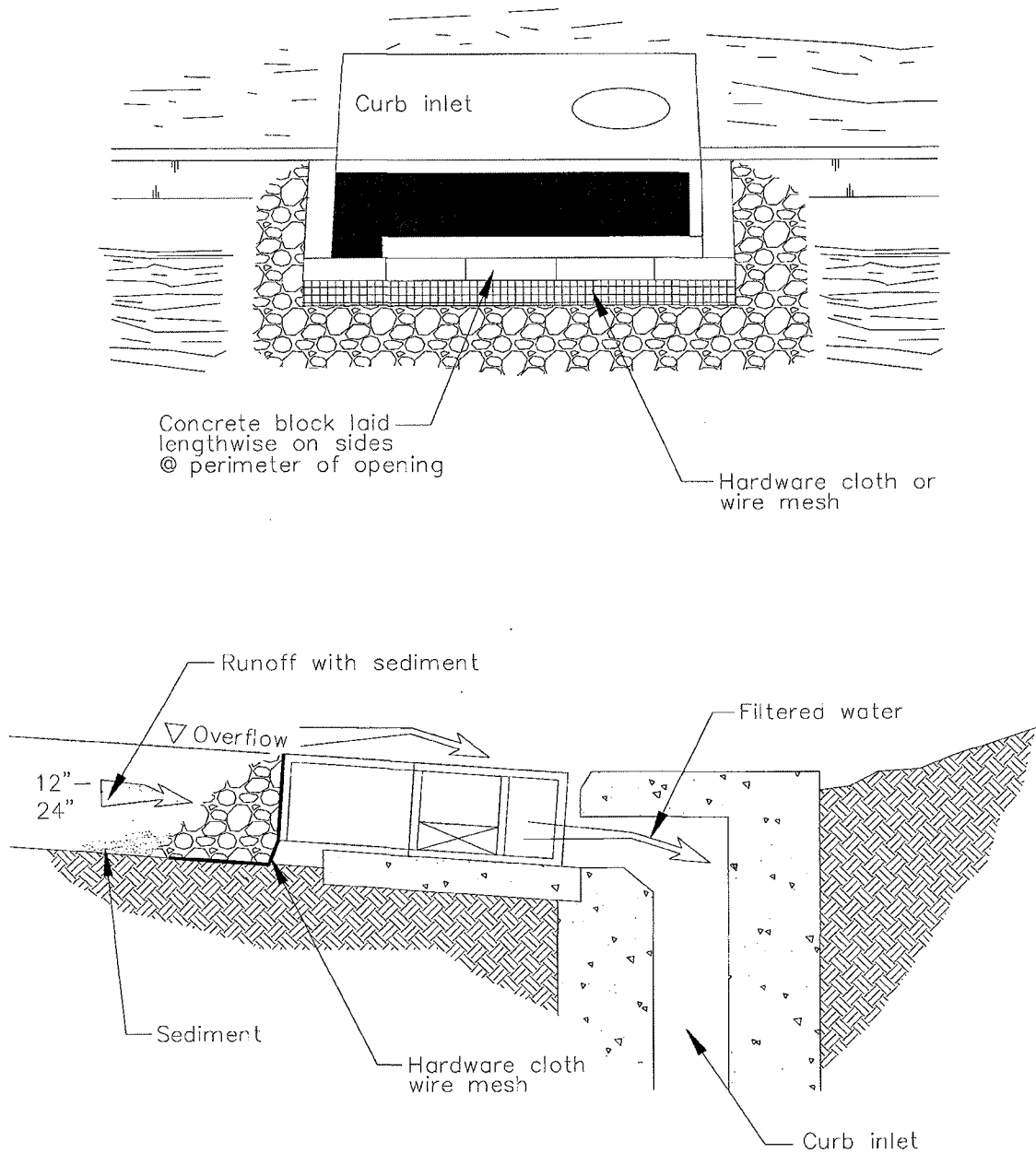


TYPICAL PROTECTION FOR INLET ON GRADE

NOTES:

1. Intended for short-term use.
2. Use to inhibit non-storm water flow.
3. Allow for proper maintenance and cleanup.
4. Bags must be removed after adjacent operation is completed
5. Not applicable in areas with high silts and clays without filter fabric.

DI PROTECTION TYPE 3  
NOT TO SCALE

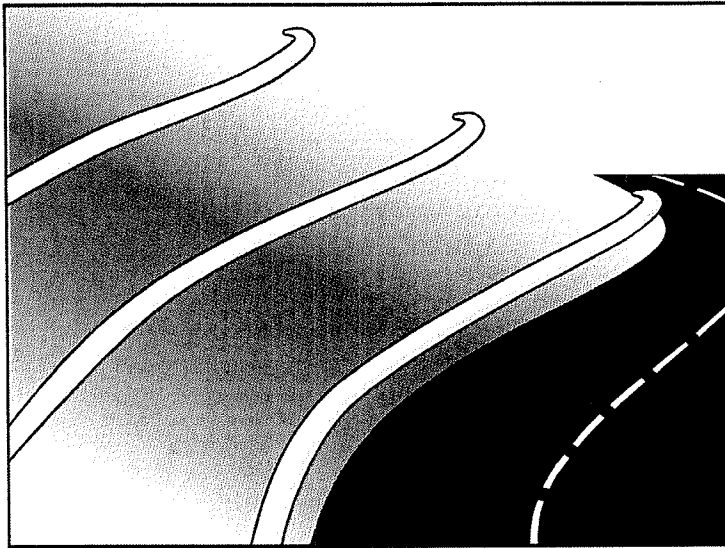


DI PROTECTION — TYPE 4  
NOT TO SCALE



## Violation No. 11

Failure to Contain and Securely Protect  
Stockpiled Waste Material from Wind and Rain  
(9 days)



## Description and Purpose

A fiber roll consists of straw, coir, or other biodegradable materials bound into a tight tubular roll wrapped by netting, which can be photodegradable or natural. Additionally, gravel core fiber rolls are available, which contain an imbedded ballast material such as gravel or sand for additional weight when staking the rolls are not feasible (such as use as inlet protection). When fiber rolls are placed at the toe and on the face of slopes along the contours, they intercept runoff, reduce its flow velocity, release the runoff as sheet flow, and provide removal of sediment from the runoff (through sedimentation). By interrupting the length of a slope, fiber rolls can also reduce sheet and rill erosion until vegetation is established.

## Suitable Applications

Fiber rolls may be suitable:

- Along the toe, top, face, and at grade breaks of exposed and erodible slopes to shorten slope length and spread runoff as sheet flow.
- At the end of a downward slope where it transitions to a steeper slope.
- Along the perimeter of a project.
- As check dams in unlined ditches with minimal grade.
- Down-slope of exposed soil areas.
- At operational storm drains as a form of inlet protection.

## Categories

EC	Erosion Control	<input checked="" type="checkbox"/>
SE	Sediment Control	<input checked="" type="checkbox"/>
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

## Legend:

- ☒ Primary Category
- ☒ Secondary Category

## Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

## Potential Alternatives

- SE-1 Silt Fence
- SE-6 Gravel Bag Berm
- SE-8 Sandbag Barrier
- SE-14 Biofilter Bags



- Around temporary stockpiles.

## **Limitations**

- Fiber rolls are not effective unless trenched in and staked.
- Not intended for use in high flow situations.
- Difficult to move once saturated.
- If not properly staked and trenched in, fiber rolls could be transported by high flows.
- Fiber rolls have a very limited sediment capture zone.
- Fiber rolls should not be used on slopes subject to creep, slumping, or landslide.
- Rolls typically function for 12-24 months depending upon local conditions.

## **Implementation**

### ***Fiber Roll Materials***

- Fiber rolls should be prefabricated.
- Fiber rolls may come manufactured containing polyacrylamide (PAM), a flocculating agent within the roll. Fiber rolls impregnated with PAM provide additional sediment removal capabilities and should be used in areas with fine, clayey or silty soils to provide additional sediment removal capabilities. Monitoring may be required for these installations.
- Fiber rolls are made from weed free rice straw, flax, or a similar agricultural material bound into a tight tubular roll by netting.
- Typical fiber rolls vary in diameter from 9 in. to 20 in. Larger diameter rolls are available as well.

### ***Installation***

- Locate fiber rolls on level contours spaced as follows:
  - Slope inclination of 4:1 (H:V) or flatter: Fiber rolls should be placed at a maximum interval of 20 ft.
  - Slope inclination between 4:1 and 2:1 (H:V): Fiber Rolls should be placed at a maximum interval of 15 ft. (a closer spacing is more effective).
  - Slope inclination 2:1 (H:V) or greater: Fiber Rolls should be placed at a maximum interval of 10 ft. (a closer spacing is more effective).
- Prepare the slope before beginning installation.
- Dig small trenches across the slope on the contour. The trench depth should be 1/4 to 1/3 of the thickness of the roll, and the width should equal the roll diameter, in order to provide area to backfill the trench.

- It is critical that rolls are installed perpendicular to water movement, and parallel to the slope contour.
- Start building trenches and installing rolls from the bottom of the slope and work up.
- It is recommended that pilot holes be driven through the fiber roll. Use a straight bar to drive holes through the roll and into the soil for the wooden stakes.
- Turn the ends of the fiber roll up slope to prevent runoff from going around the roll.
- Stake fiber rolls into the trench.
  - Drive stakes at the end of each fiber roll and spaced 4 ft maximum on center.
  - Use wood stakes with a nominal classification of 0.75 by 0.75 in. and minimum length of 24 in.
- If more than one fiber roll is placed in a row, the rolls should be overlapped, not abutted.
- See typical fiber roll installation details at the end of this fact sheet.

## **Removal**

- Fiber rolls can be left in place or removed depending on the type of fiber roll and application (temporary vs. permanent installation). Typically, fiber rolls encased with plastic netting are used for a temporary application because the netting does not biodegrade. Fiber rolls used in a permanent application are typically encased with a biodegradable material and are left in place. Removal of a fiber roll used in a permanent application can result in greater disturbance.
- Temporary installations should only be removed when up gradient areas are stabilized per General Permit requirements, and/or pollutant sources no longer present a hazard. But, they should also be removed before vegetation becomes too mature so that the removal process does not disturb more soil and vegetation than is necessary.

## **Costs**

Material costs for regular fiber rolls range from \$20 - \$30 per 25 ft roll.

Material costs for PAM impregnated fiber rolls range between 7.00-\$9.00 per linear foot, based upon vendor research.

## **Inspection and Maintenance**

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Repair or replace split, torn, unraveling, or slumping fiber rolls.
- If the fiber roll is used as a sediment capture device, or as an erosion control device to maintain sheet flows, sediment that accumulates in the BMP should be periodically removed



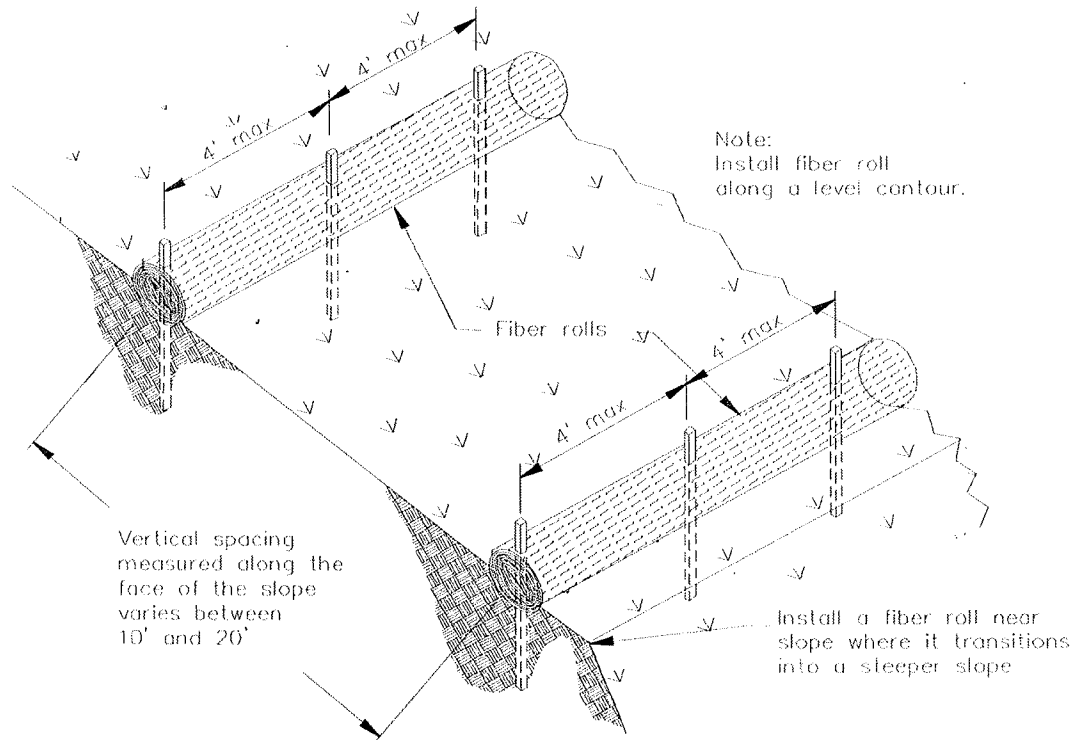
in order to maintain BMP effectiveness. Sediment should be removed when sediment accumulation reaches one-third the designated sediment storage depth.

- If fiber rolls are used for erosion control, such as in a check dam, sediment removal should not be required as long as the system continues to control the grade. Sediment control BMPs will likely be required in conjunction with this type of application.
- Repair any rills or gullies promptly.

## References

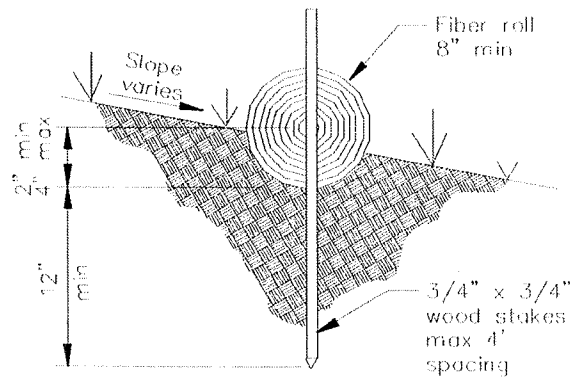
Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Erosion and Sediment Control Manual, Oregon Department of Environmental Quality, February 2005.



TYPICAL FIBER ROLL INSTALLATION

N.T.S.



ENTRENCHMENT DETAIL

N.T.S.

[Rebate Center](#)[Order Tracker](#)[Weekly Ad](#)[Gift Registry](#)[Welcome, Sign In](#) ▾[Select Your Store](#)[Help Center](#) ▾[Services](#) ▾[Credit Center](#) ▾[Gift Cards](#) ▾[Departments](#) ▾[Project Center](#) ▾[Promotions](#) ▾[Search All](#) ▾

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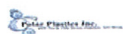
[Home](#) > [Paint](#) > [Drop Cloths & Plastic Sheeting](#) > **Poly Film****Polar Plastics 6-Mil Clear Poly Reinforced Plastic Sheeting - 20' x 50' Roll**Model Number: 5680090 | Menards® SKU: 5680090  
Variation: Clear

Online Price ⓘ

**\$74.98****Description** ▾Add to  
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Hover to zoom in.**Description & Documents**

For everything from simple dust protection to heavy-duty construction projects, Polar Plastics has a fitting solution. Their strong, durable plastics come in a variety of sizes, thicknesses and colors to perfectly meet the requirements of your project. This reinforced sheeting is the epitome of strength when it comes to plastic sheeting. With two layers of low-density polyethylene and hundreds of nylon strings forming a diamond scrim pattern, this sheeting makes a great long-term cover for heavy-duty equipment or the perfect dust and debris shield. Use as much or as little as you need!

- Two layers of low-density polyethylene with nylon strings running through and between
- Reinforced diamond scrim pattern is ideal for heavy-duty applications
- Commonly used for building enclosures, crawl spaces and as a long-lasting equipment cover
- Reinforced design stops tears and punctures
- Perfect for weather, water and dust protection
- Made in USA
- 6-mil thickness is the nominal size

**Dimensions:** 20' x 50'**MSDS Document:** [101025\\_001.pdf](#) [106044\\_001.pdf](#)

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## Violation No. 12

Failure to Properly Store Chemicals  
(7 days)



# PIG® Poly Storage Shed

#PAK754 - Containment Shed • Use With Steel Drums Only • 75 gal. Sump Capacity



Stack two pallets of four drums each inside this storage shed to free up some floor space at your facility.

- Provides 75 gallons of containment and protected storage for up to eight 55-gallon drums (two stacked pallets)
- Low-density polyethylene (LDPE) construction with UV inhibitors resists UV rays, rust, corrosion and most chemicals
- Molded door vents help reduce fumes and interior condensation
- Removable grates provide easy access to the sump
- Forklift access from all sides makes the empty shed easy to move
- Lockable to help keep contents secure (lock included)



**New Pig**

By Phone:  
**1-855-493-HOGS**

Online:  
**newpig.com**

Email:  
**hothogs@newpig.com**

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ITEM: PAK754 - Pg 1 of 3

## PAK754 Product Option Information

Item #	Description	Dimensions	Weight	Pricing Qty: 1+
PAK754-BWG	Black with Gray	62.5" W x 90" D x 93" H	500 lbs.	\$3,213.00

### Metric Equivalent

Item #	Description	Dimensions	Weight	Pricing Qty: 1+
PAK754-BWG	Black with Gray	158.8cm W x 2.3m D x 2.4m H	226.8 kg	\$3,213.00



**New Pig**

By Phone:  
**1-855-493-HOGS**

Online:  
**newpig.com**

Email:  
**hothogs@newpig.com**

One Pork Avenue • Tipton PA 16684-0304  
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ITEM: PAK754 - Pg 2 of 3

## PAK754 Specifications

Load Capacity UDL:	8000 lbs.
Sump Capacity:	75 gal.
Access:	2 Hinged Doors
Containment Type:	Containment Shed
Fork Truck Access:	Four-way Fork Truck Access
Groundable for Flammables:	No
Interior Dimensions:	57" W x 78" H x 70" D
Number of Containers:	8 Drums
Type of Container:	Steel Drums Only
Sold as:	1 each
# per Pallet:	1
Composition:	Polyethylene
UNSPSC:	24101905

## PAK754 Metric Equivalent

Load Capacity UDL:	3628.8 kg
Sump Capacity:	283.9 L

## Technical Information

### Warnings & Restrictions:

#### Flammables Notice

If using this product with flammable liquids, please consider the regulations that apply to storage and handling of flammable liquids and the safety of this application, specifically flammable vapors, static discharge and heat sources. For further assistance, please call Technical Services.

### Regulations and Compliance:

40 CFR 264.175 - Hazardous waste containment systems must be free of structural cracks or gaps, be designed to keep spilled liquids from remaining in contact with the container, prevent run-on and "have sufficient capacity to contain 10% of the volume of the containers, or the volume of the largest container, whichever is greater."

40 CFR 122.26 - When applying for a National Pollutant Discharge Elimination System (NPDES) permit, facilities must have a plan in place that describes actions, procedures, control techniques, management practices and equipment available to prevent illegal discharge of pollutants into waterways.

40 CFR 112.7 - SPCC planning requirements state that facilities subject to these regulations must have written plans in place discussing the products, countermeasures and procedures that are in place, or will be taken by the facility to prevent discharge of oil into waters of the United States.

### Technical Documents:

(Available at [newpig.com](http://newpig.com))

Product Data Sheet (PDS)

Chemical Compatibility (CCG)



## PAK754 Accessories

### You might like...



Ramp for PIG® Poly Storage Shed

### Item Number

PAK755



**New Pig**

By Phone:  
**1-855-493-HOGS**

Online:  
**[newpig.com](http://newpig.com)**

Email:  
**[hothogs@newpig.com](mailto:hothogs@newpig.com)**

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ITEM: PAK754 - Pg 3 of 3

## Violation No. 13

Failure to Prevent Discharge of Concrete Waste  
to the Ground  
(15 days)



# American CONCRETE WASHOUTS

1 (800) 788-0355

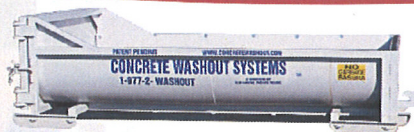
## CONCRETE, PAINT & DRYWALL WASHOUT SERVICE PROVIDER

### Contractors Choice



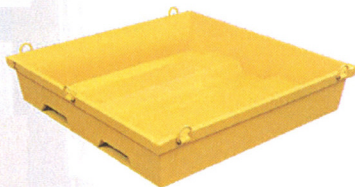
### Concrete Washout (Ramped)

20' L X 8' W Ramps Folded  
26' L X 8' W Ramps Extended  
Capacity - 900 Gallons  
Estimate 1 Washout for 350 Poured Yards of Concrete.  
Used for Pump and Mixer Truck Washout.



### Concrete Washout (Ramp less)

12' L X 8' W X 2' H  
Capacity - 1300 Gallons  
Limited Availability - Call for Info  
Estimate 1 Washout for 400 Poured yards of concrete.



### Washout Pan (Pump Truck Washout)

72" L x 72" W x 14"H  
Capacity - 242 Gallons  
Five Rigging "D" Rings  
Angled Floor | Load Tested 25,000 LBS  
Engineering Calculations Available  
Currently Available in CA Only



### Paint & Drywall Washouts

5' L X 4' W x 3'D  
Capacity - 448 Gallons  
Currently Not Available in Texas

American Concrete Washouts is a licensed, registered California public works #1000021973 Service Provider and Micro Small Business. We are an industry leading, permitted service provider for concrete, paint, drywall, tile, mortar, grout and stucco washout water.

Unlike any other washout service provider, we offer both the ramp & ramp less style EPA compliant, portable, watertight, patented Concrete Washout System (CWS).

Our six yard CWS on average will accommodate a 350 cubic yard pour, approximately 36 mixer trucks and 2 pump trucks. Ramps, allow both the pump & mixer trucks to utilize the same washout.

We also offer crane rated pump pans - see the WashoutPan price list for service and rental pricing.

Established in 2004, we are the industries first and trusted service provider for infrastructure, military, commercial & residential projects.

Our customers include: Kiewit, Sundt, Hensel Phelps, McCarthy, Flatiron, Granite, Balfour Beatty, Coffman, Shea, Skanska and Austin Commercial to name a few.

Compliance with LEED and diversion programs are easy with our digital receipts emailed upon request.

As the preferred service provider, we not only properly handle and recycle the concrete washout material, we properly handle and recycle the caustic, high PH water collected.

Our roll off trucks have a built in vacuum system, allowing us to usually service a washout with a single truck.





# American CONCRETE WASHOUTS

1 (800) 788-0355

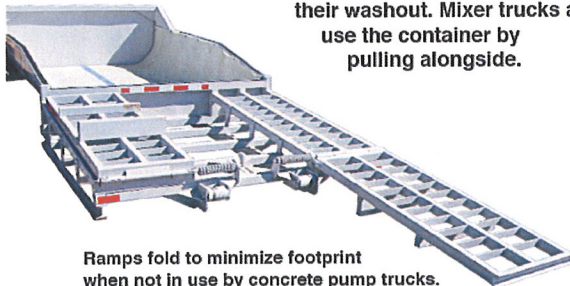
**2015**  
**CONCRETE WASHOUT**  
**SERVICE COST**  
**SAN DIEGO, CA**

Please provide three (3) working days notice for service requests.

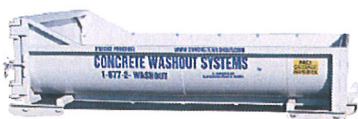
Washout cost are listed by distance and include delivery, a Washout Water Vacuum up to 300 gallons at removal or swap and recycling of the solids. We never charge for mileage, removal, tonnage fees, environmental fees or recycle documentation. Additional Water Vacuums and Same Site Relocates are available. Never line our containers with plastic as they are watertight and will result in landfill charges. We accept concrete washout and clean broken concrete only. We **DO NOT** accept saw cutting or grindings.

Cost by Radius from Mission Valley / San Diego	Within 20 miles	20 to 40 Miles	40 to 60 Miles
Concrete Washout (Ramp or Rampless)	\$475	\$525	\$575
300 Gallon Vacuum at Removal or Swap	\$0	\$0	\$0
Removal / Pull	\$0	\$0	\$0
Daily Rental	\$7	\$7	\$7
Fuel Surcharge (Variable)	8% +/-	8% +/-	8% +/-
Environmental / Mileage / Diversion	\$0	\$0	\$0
Same Day Service Fee	\$175	\$175	\$175
Additional Water Vacuums / Relocates / Canceled Service	\$275	\$325	\$375
RAPIDGate Requirement Surcharge	\$25 Per Service	\$25 Per Service	\$25 Per Service
Trash / Plastic / Saw Cuttings / Dirt / Rebar / Wire Mesh Anything but Concrete (Placed in Bin)	\$75 Per Ton Fine	\$75 Per Ton Fine	\$75 Per Ton Fine

Ramps allow concrete pump trucks the ability to back onto the container capturing their washout. Mixer trucks also use the container by pulling alongside.



Ramps fold to minimize footprint when not in use by concrete pump trucks.



Rampless models also available.



Ramped concrete washout for both concrete mixer, pump trucks and more.

[www.SanDiegoConcreteWashouts.com](http://www.SanDiegoConcreteWashouts.com)

email: [Reef@AmericanConcreteWashouts.com](mailto:Reef@AmericanConcreteWashouts.com)



# American CONCRETE WASHOUTS

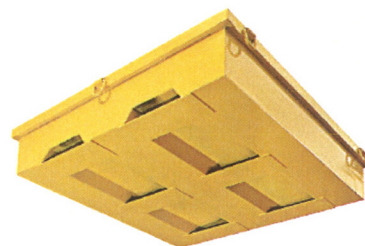
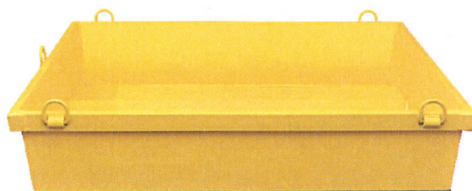
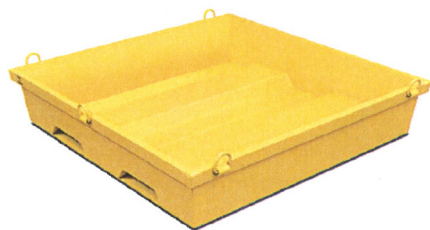
1 (800) 788-0355

72"x72"x14"  
WASHOUT PAN  
ONE YARD PAN  
**SERVICE COST**  
**SAN DIEGO, CA**

Please provide three (3) working days notice for service requests.

Washout cost are listed by distance and include delivery, a Washout Water Vacuum up to 300 gallons at removal or swap and recycling of the solids. We never charge for mileage, removal, tonnage fees, environmental fees or recycle documentation. Additional Water Vacuums and Same Site Relocates are available. Never line our containers with plastic as they are watertight and will result in landfill charges. We accept concrete washout and clean broken concrete only. We **DO NOT** accept saw cutting or grindings.

Cost by Radius from Mission Valley / San Diego	Within 20 miles	20 to 40 Miles	40 to 60 Miles
Delivery 72"x72"x14" - Up to three pans for one price	\$275	\$325	\$375
300 Gallon Vacuum at Removal or Swap	\$0	\$0	\$0
Removal or Swap - Up to three pans for one price	\$275	\$325	\$375
Daily Rental Per Pan	\$3	\$3	\$3
Fuel Surcharge	10% +/-	10% +/-	10% +/-
Environmental / Mileage / Diversion	\$0	\$0	\$0
Same Day Service Fee	\$175	\$175	\$175
Additional Water Vacuums / Relocates / Canceled Service	\$275	\$325	\$375
RAPIDGate Requirement Surcharge	\$25 Per Service	\$25 Per Service	\$25 Per Service
Trash / Plastic / Saw Cuttings / Dirt / Rebar / Wire Mesh Anything but Concrete (Placed in Bin)	\$75 Per Ton Fine	\$75 Per Ton Fine	\$75 Per Ton fine
Replacement Value of Lost or Damaged Pan	\$1899 each		



- High strength 1/4" steel floors
- High strength 7 gauge steel walls
- Hand welded with continuous seams
- Five 18,500 lbs. rated lifting/rigging "D" rings
- Load tested at 25,000 lbs. - Maximum weight 12,500 lbs.
- Engineer rated - calculation packets available
- 11" Wide angled enclosed fork pockets, spaced 40" OD to OD and will fit most adjustable lifts
- Tapered interior walls for easy release of materials
- Pans nest inside of each



# American CONCRETE WASHOUTS

CONCRETE, PAINT AND DRYWALL WASHOUT SERVICES

**1 (800) 788-0355**

**448 GALLON  
PAINT / DRYWALL  
WASHOUT STATION  
w/ WORK GRATE  
SERVICE COST**

**SAN DIEGO, CA**

Please provide three (3) working days notice for service requests.

Our 448 gallon Paint Washout Station is designed for the paint, drywall, tile, and stucco trades. Made from steel construction with two-way forklift channels and work grate for tool washout, our washout system has proven to be the best available technology for construction sites.

Cost by Radius from Mission Valley / San Diego	Within 20 miles	20 to 40 Miles	40 to 60 Miles
448 Gallon Paint / Drywall Washout - Per Trip	\$275	\$325	\$375
Removal / Pull - Per Container	\$275	\$325	\$375
Daily Rental	\$5	\$5	\$5
Fuel Surcharge	10% +/-	10% +/-	10% +/-
Environmental / Mileage / Diversion	\$0	\$0	\$0
Same Day Service Fee	\$175	\$175	\$175
Additional Water Vacuums / Relocates / Canceled Trip	\$275	\$325	\$375
RAPIDGate Requirement Surcharge	\$25 Per Service	\$25 Per Service	\$25 Per Service
Anything but Latex Paint or Drywall Washout (Placed in Bin)	\$75 Per Ton Fine	\$75 Per Ton Fine	\$75 Per Ton Fine





# Exhibit No. 29

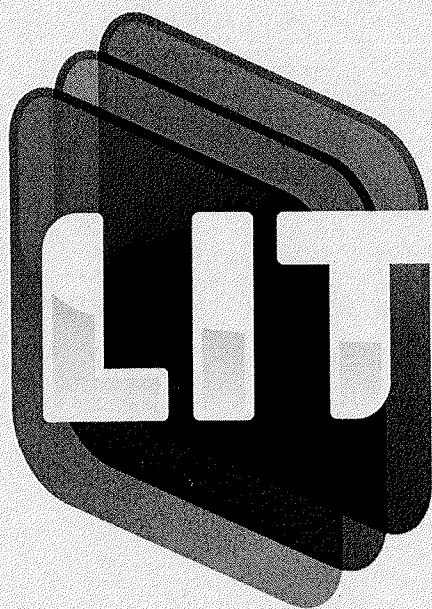
## Staff Cost Summary

### March 2015 through September 2015

Staff hours as of September 30, 2015.

STAFF	HOURS	MONTHLY SALARY	Hourly	Hourly total	Benefits	Total
CCLEMENTE	1.75	\$9,899	\$57.11	\$99.94	\$43.19	\$143.13
EBECKER	1.25	\$10,501	\$60.58	\$75.73	\$32.72	\$108.45
FMELBOURN	196.50	\$8,915	\$51.43	\$10,106.72	\$4,367.11	\$14,473.83
JSMITH	1.75	\$12,620	\$72.81	\$127.42	\$55.06	\$182.47
WCHIU	10.00	\$8,915	\$51.43	\$514.34	\$222.24	\$736.58
JHAAS	1.25	\$11,447	\$66.04	\$82.55	\$35.67	\$118.22
	<b>212.50</b>		<b>TOTAL COSTS</b>			<b>\$15,762.69</b>

# Melbourn, Frank - Vol. 1



Litigation  
SERVICES

Job: 600096

Exhibit: 00004



## APPENDIX 5: Glossary

### **Active Areas of Construction**

All areas subject to land surface disturbance activities related to the project including, but not limited to, project staging areas, immediate access areas and storage areas. All previously active areas are still considered active areas until final stabilization is complete. [The construction activity Phases used in this General Permit are the Preliminary Phase, Grading and Land Development Phase, Streets and Utilities Phase, and the Vertical Construction Phase.]

### **Active Treatment System (ATS)**

A treatment system that employs chemical coagulation, chemical flocculation, or electrocoagulation to aid in the reduction of turbidity caused by fine suspended sediment.

### **Acute Toxicity Test**

A chemical stimulus severe enough to rapidly induce a negative effect; in aquatic toxicity tests, an effect observed within 96 hours or less is considered acute.

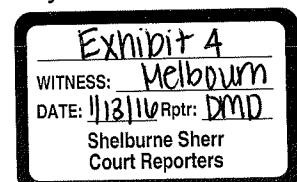
### **Air Deposition**

Airborne particulates from construction activities.

### **Approved Signatory**

A person who has been authorized by the Legally Responsible Person to sign, certify, and electronically submit Permit Registration Documents, Notices of Termination, and any other documents, reports, or information required by the General Permit, the State or Regional Water Board, or U.S. EPA. The Approved Signatory must be one of the following:

1. For a corporation or limited liability company: a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (a) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation or limited liability company; or (b) the manager of the facility if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
2. For a partnership or sole proprietorship: a general partner or the proprietor, respectively;
3. For a municipality, State, Federal, or other public agency: a principal executive officer, ranking elected official, city manager, council president, or any other authorized public employee with managerial responsibility over the



construction or land disturbance project (including, but not limited to, project manager, project superintendent, or resident engineer);

4. For the military: any military officer or Department of Defense civilian, acting in an equivalent capacity to a military officer, who has been designated;
5. For a public university: an authorized university official;
6. For an individual: the individual, because the individual acts as both the Legally Responsible Person and the Approved Signatory; or
7. For any type of entity not listed above (e.g. trusts, estates, receivers): an authorized person with managerial authority over the construction or land disturbance project.

### **Beneficial Uses**

As defined in the California Water Code, beneficial uses of the waters of the state that may be protected against quality degradation include, but are not limited to, domestic, municipal, agricultural and industrial supply; power generation; recreation; aesthetic enjoyment; navigation; and preservation and enhancement of fish, wildlife, and other aquatic resources or preserves.

### **Best Available Technology Economically Achievable (BAT)**

As defined by USEPA, BAT is a technology-based standard established by the Clean Water Act (CWA) as the most appropriate means available on a national basis for controlling the direct discharge of toxic and nonconventional pollutants to navigable waters. The BAT effluent limitations guidelines, in general, represent the best existing performance of treatment technologies that are economically achievable within an industrial point source category or subcategory.

### **Best Conventional Pollutant Control Technology (BCT)**

As defined by USEPA, BCT is a technology-based standard for the discharge from existing industrial point sources of conventional pollutants including biochemical oxygen demand (BOD), total suspended sediment (TSS), fecal coliform, pH, oil and grease.

### **Best Professional Judgment (BPJ)**

The method used by permit writers to develop technology-based NPDES permit conditions on a case-by-case basis using all reasonably available and relevant data.

### **Best Management Practices (BMPs)**

BMPs are scheduling of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants. BMPs also include treatment requirements, operating procedures,



and practices to control site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

**Chain of Custody (COC)**

Form used to track sample handling as samples progress from sample collection to the analytical laboratory. The COC is then used to track the resulting analytical data from the laboratory to the client. COC forms can be obtained from an analytical laboratory upon request.

**Coagulation**

The clumping of particles in a discharge to settle out impurities, often induced by chemicals such as lime, alum, and iron salts.

**Common Plan of Development**

Generally a contiguous area where multiple, distinct construction activities may be taking place at different times under one plan. A plan is generally defined as any piece of documentation or physical demarcation that indicates that construction activities may occur on a common plot. Such documentation could consist of a tract map, parcel map, demolition plans, grading plans or contract documents. Any of these documents could delineate the boundaries of a common plan area. However, broad planning documents, such as land use master plans, conceptual master plans, or broad-based CEQA or NEPA documents that identify potential projects for an agency or facility are not considered common plans of development.

**Daily Average Discharge**

The discharge of a pollutant measured during any 24-hour period that reasonably represents a calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged during the day. For pollutants with limitations expressed in other units of measurement (e.g., concentration) the daily discharge is calculated as the average measurement of the pollutant throughout the day (40 CFR 122.2). In the case of pH, the pH must first be converted from a log scale.

**Debris**

Litter, rubble, discarded refuse, and remains of destroyed inorganic anthropogenic waste.

**Direct Discharge**

A discharge that is routed directly to waters of the United States by means of a pipe, channel, or ditch (including a municipal storm sewer system), or through surface runoff.

**Discharger**

The Legally Responsible Person (see definition) or entity subject to this General Permit.

**Dose Rate (for ATS)**

In exposure assessment, dose (e.g. of a chemical) per time unit (e.g. mg/day), sometimes also called dosage.

**Drainage Area**

The area of land that drains water, sediment, pollutants, and dissolved materials to a common outlet.

**Effluent**

Any discharge of water by a discharger either to the receiving water or beyond the property boundary controlled by the discharger.

**Effluent Limitation**

Any numeric or narrative restriction imposed on quantities, discharge rates, and concentrations of pollutants which are discharged from point sources into waters of the United States, the waters of the contiguous zone, or the ocean.

**Erosion**

The process, by which soil particles are detached and transported by the actions of wind, water, or gravity.

**Erosion Control BMPs**

Vegetation, such as grasses and wildflowers, and other materials, such as straw, fiber, stabilizing emulsion, protective blankets, etc., placed to stabilize areas of disturbed soils, reduce loss of soil due to the action of water or wind, and prevent water pollution.

**Field Measurements**

Testing procedures performed in the field with portable field-testing kits or meters.

**Final Stabilization**

All soil disturbing activities at each individual parcel within the site have been completed in a manner consistent with the requirements in this General Permit.

**First Order Stream**

Stream with no tributaries.

**Flocculants**

Substances that interact with suspended particles and bind them together to form flocs.

**Good Housekeeping BMPs**

BMPs designed to reduce or eliminate the addition of pollutants to construction site runoff through analysis of pollutant sources, implementation of proper handling/disposal practices, employee education, and other actions.

**Grading Phase (part of the Grading and Land Development Phase)**

Includes reconfiguring the topography and slope including; alluvium removals; canyon cleanouts; rock undercuts; keyway excavations; land form grading; and stockpiling of select material for capping operations.

**Hydromodification**

Hydromodification is the alteration of the hydrologic characteristics of coastal and non-coastal waters, which in turn could cause degradation of water resources. Hydromodification can cause excessive erosion and/or sedimentation rates, causing excessive turbidity, channel aggradation and/or degradation.

**Identified Organisms**

Organisms within a sub-sample that is specifically identified and counted.

**Inactive Areas of Construction**

Areas of construction activity that are not active and those that have been active and are not scheduled to be re-disturbed for at least 14 days.

**Index Period**

The period of time during which bioassessment samples must be collected to produce results suitable for assessing the biological integrity of streams and rivers. Instream communities naturally vary over the course of a year, and sampling during the index period ensures that samples are collected during a time frame when communities are stable so that year-to-year consistency is obtained. The index period approach provides a cost-effective alternative to year-round sampling. Furthermore, sampling within the appropriate index period will yield results that are comparable to the assessment thresholds or criteria for a given region, which are established for the same index period. Because index periods differ for different parts of the state, it is essential to know the index period for your area.

**K Factor**

The soil erodibility factor used in the Revised Universal Soil Loss Equation (RUSLE). It represents the combination of detachability of the soil, runoff potential of the soil, and the transportability of the sediment eroded from the soil.

**Legally Responsible Person**

The Legally Responsible Person (LRP) will typically be the project proponent. The categories of persons or entities that are eligible to serve as the LRP are set forth below. For any construction or land disturbance project where multiple persons or entities are eligible to serve as the LRP, those persons or entities

shall select a single LRP. In exceptional circumstances, a person or entity that qualifies as the LRP may provide written authorization to another person or entity to serve as the LRP. In such a circumstance, the person or entity that provides the authorization retains all responsibility for compliance with the General Permit. Except as provided in category 2(d), a contractor who does not satisfy the requirements of any of the categories below is not qualified to be an LRP.

The following persons or entities may serve as an LRP:

1. A person, company, agency, or other entity that possesses a real property interest (including, but not limited to, fee simple ownership, easement, leasehold, or other rights of way) in the land upon which the construction or land disturbance activities will occur for the regulated site.
2. In addition to the above, the following persons or entities may also serve as an LRP:
  - a. For linear underground/overhead projects, the utility company, municipality, or other public or private company or agency that owns or operates the LUP;
  - b. For land controlled by an estate or similar entity, the person who has day-to-day control over the land (including, but not limited to, a bankruptcy trustee, receiver, or conservator);
  - c. For pollution investigation and remediation projects, any potentially responsible party that has received permission to conduct the project from the holder of a real property interest in the land; or
  - d. For U.S. Army Corp of Engineers projects, the U.S. Army Corps of Engineers may provide written authorization to its bonded contractor to serve as the LRP, provided, however, that the U.S. Army Corps of Engineers is also responsible for compliance with the general permit, as authorized by the Clean Water Act or the Federal Facilities Compliance Act.

#### **Likely Precipitation Event**

Any weather pattern that is forecasted to have a 50% or greater chance of producing precipitation in the project area. The discharger shall obtain likely precipitation forecast information from the National Weather Service Forecast Office (e.g., by entering the zip code of the project's location at <http://www.srh.noaa.gov/forecast>).

#### **Maximum Allowable Threshold Concentration (MATC)**

The allowable concentration of residual, or dissolved, coagulant/flocculant in effluent. The MATC shall be coagulant/flocculant-specific, and based on toxicity



testing conducted by an independent, third-party laboratory. A typical MATC would be:

The MATC is equal to the geometric mean of the NOEC (No Observed Effect Concentration) and LOEC (Lowest Observed Effect Concentration) Acute and Chronic toxicity results for most sensitive species determined for the specific coagulant. The most sensitive species test shall be used to determine the MATC.

**Natural Channel Evolution**

The physical trend in channel adjustments following a disturbance that causes the river to have more energy and degrade or aggrade more sediment. Channels have been observed to pass through 5 to 9 evolution types. Once they pass through the suite of evolution stages, they will rest in a new state of equilibrium.

**Non-Storm Water Discharges**

Discharges are discharges that do not originate from precipitation events. They can include, but are not limited to, discharges of process water, air conditioner condensate, non-contact cooling water, vehicle wash water, sanitary wastes, concrete washout water, paint wash water, irrigation water, or pipe testing water.

**Non-Visible Pollutants**

Pollutants associated with a specific site or activity that can have a negative impact on water quality, but cannot be seen through observation (ex: chlorine). Such pollutants being discharged are not authorized.

**Numeric Action Level (NAL)**

Level is used as a warning to evaluate if best management practices are effective and take necessary corrective actions. Not an effluent limit.

**Original Sample Material**

The material (i.e., macroinvertebrates, organic material, gravel, etc.) remaining after the subsample has been removed for identification.

**pH**

Unit universally used to express the intensity of the acid or alkaline condition of a water sample. The pH of natural waters tends to range between 6 and 9, with neutral being 7. Extremes of pH can have deleterious effects on aquatic systems.

**Post-Construction BMPs**

Structural and non-structural controls which detain, retain, or filter the release of pollutants to receiving waters after final stabilization is attained.

**Preliminary Phase (Pre-Construction Phase - Part of the Grading and Land Development Phase)**

Construction stage including rough grading and/or disking, clearing and grubbing operations, or any soil disturbance prior to mass grading.

**Project**

**Qualified SWPPP Developer**

Individual who is authorized to develop and revise SWPPPs.

**Qualified SWPPP Practitioner**

Individual assigned responsibility for non-storm water and storm water visual observations, sampling and analysis, and responsibility to ensure full compliance with the permit and implementation of all elements of the SWPPP, including the preparation of the annual compliance evaluation and the elimination of all unauthorized discharges.

**Qualifying Rain Event**

Any event that produces 0.5 inches or more precipitation with a 48 hour or greater period between rain events.

**R Factor**

Erosivity factor used in the Revised Universal Soil Loss Equation (RUSLE). The R factor represents the erosivity of the climate at a particular location. An average annual value of R is determined from historical weather records using erosivity values determined for individual storms. The erosivity of an individual storm is computed as the product of the storm's total energy, which is closely related to storm amount, and the storm's maximum 30-minute intensity.

**Rain Event Action Plan (REAP)**

Written document, specific for each rain event, that when implemented is designed to protect all exposed portions of the site within 48 hours of any likely precipitation event.

**Remaining Sub sampled Material**

The material (e.g., organic material, gravel, etc.) that remains after the organisms to be identified have been removed from the subsample for identification. (Generally, no macroinvertebrates are present in the remaining subsampled material, but the sample needs to be checked and verified using a complete Quality Assurance (QA) plan)

**Routine Maintenance**

Activities intended to maintain the original line and grade, hydraulic capacity, or original purpose of a facility.

**Runoff Control BMPs**

Measures used to divert runoff from offsite and runoff within the site.

**Run-on**

Discharges that originate offsite and flow onto the property of a separate project site.

**Revised Universal Soil Loss Equation (RUSLE)**

Empirical model that calculates average annual soil loss as a function of rainfall and runoff erosivity, soil erodibility, topography, erosion controls, and sediment controls.

**Sampling and Analysis Plan**

Document that describes how the samples will be collected, under what conditions, where and when the samples will be collected, what the sample will be tested for, what test methods and detection limits will be used, and what methods/procedures will be maintained to ensure the integrity of the sample during collection, storage, shipping and testing (i.e., quality assurance/quality control protocols).

**Sediment**

Solid particulate matter, both mineral and organic, that is in suspension, is being transported, or has been moved from its site of origin by air, water, gravity, or ice and has come to rest on the earth's surface either above or below sea level.

**Sedimentation**

Process of deposition of suspended matter carried by water, wastewater, or other liquids, by gravity. It is usually accomplished by reducing the velocity of the liquid below the point at which it can transport the suspended material.

**Sediment Control BMPs**

Practices that trap soil particles after they have been eroded by rain, flowing water, or wind. They include those practices that intercept and slow or detain the flow of storm water to allow sediment to settle and be trapped (e.g., silt fence, sediment basin, fiber rolls, etc.).

**Settleable Solids (SS)**

Solid material that can be settled within a water column during a specified time frame. It is typically tested by placing a water sample into an Imhoff settling cone and then allowing the solids to settle by gravity for a given length of time. Results are reported either as a volume (mL/L) or a mass (mg/L) concentration.

**Sheet Flow**

Flow of water that occurs overland in areas where there are no defined channels where the water spreads out over a large area at a uniform depth.

**Site****Soil Amendment**

Any material that is added to the soil to change its chemical properties, engineering properties, or erosion resistance that could become mobilized by storm water.

**Streets and Utilities Phase**

Construction stage including excavation and street paving, lot grading, curbs, gutters and sidewalks, public utilities, public water facilities including fire hydrants, public sanitary sewer systems, storm sewer system and/or other drainage improvements.

**Structural Controls**

Any structural facility designed and constructed to mitigate the adverse impacts of storm water and urban runoff pollution

**Suspended Sediment Concentration (SSC)**

The measure of the concentration of suspended solid material in a water sample by measuring the dry weight of all of the solid material from a known volume of a collected water sample. Results are reported in mg/L.

**Total Suspended Solids (TSS)**

The measure of the suspended solids in a water sample includes inorganic substances, such as soil particles and organic substances, such as algae, aquatic plant/animal waste, particles related to industrial/sewage waste, etc. The TSS test measures the concentration of suspended solids in water by measuring the dry weight of a solid material contained in a known volume of a sub-sample of a collected water sample. Results are reported in mg/L.

**Toxicity**

The adverse response(s) of organisms to chemicals or physical agents ranging from mortality to physiological responses such as impaired reproduction or growth anomalies.

**Turbidity**

The cloudiness of water quantified by the degree to which light traveling through a water column is scattered by the suspended organic and inorganic particles it contains. The turbidity test is reported in Nephelometric Turbidity Units (NTU) or Jackson Turbidity Units (JTU).

**Vertical Construction Phase**

The Build out of structures from foundations to roofing, including rough landscaping.



**Waters of the United States**

Generally refers to surface waters, as defined by the federal Environmental Protection Agency in 40 C.F.R. § 122.2.<sup>1</sup>

**Water Quality Objectives (WQO)**

Water quality objectives are defined in the California Water Code as limits or levels of water quality constituents or characteristics, which are established for the reasonable protection of beneficial uses of water or the prevention of nuisance within a specific area.

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<sup>1</sup> The application of the definition of "waters of the United States" may be difficult to determine; there are currently several judicial decisions that create some confusion. If a landowner is unsure whether the discharge must be covered by this General Permit, the landowner may wish to seek legal advice.

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Job: 600096

Exhibit: 00005



# Section 3

## Erosion and Sediment Control BMPs

### 3.1 Erosion Control

Erosion control is any source control practice that protects the soil surface and prevents soil particles from being detached by rainfall, flowing water, or wind. Erosion control consists of using project scheduling and planning to reduce soil or vegetation disturbance (particularly during the rainy season), preventing or reducing erosion potential by diverting or controlling drainage, as well as preparing and stabilizing disturbed soil areas. Erosion control BMPs that can be used to fulfill these objectives are shown in Table 3-1. It should be noted that several additional BMPs, such as Check Dams (SE-4) and Fiber Rolls (SE-5) can be used for erosion control, by reducing slope length or steepness, as well as for sediment control (i.e., perimeter control or retention of sediment). These BMPs have been included in this handbook as sediment control BMPs and are shown in

#### Table 3-2.

All inactive soil disturbed areas on the project site, and most active areas prior to the onset of rain, must be protected from erosion. Soil disturbed areas may include relatively flat areas as well as slopes. Typically, steep slopes and large exposed areas require the most robust erosion controls; flatter slopes and smaller areas still require protection, but less costly materials may be appropriate for these areas, allowing savings to be directed to the more robust BMPs for steep slopes and large exposed areas. Additional guidance on the selection of temporary slope stabilization

methods is provided in Appendix F. To be effective, erosion control BMPs for slopes at disturbed areas must be protected from concentrated flows.

Some erosion control BMPs can be used effectively to temporarily prevent erosion by concentrated flows. These BMPs, used alone or in combination, prevent erosion by intercepting, diverting, conveying, and discharging concentrated flows in a manner that prevents soil detachment and transport. Temporary concentrated flow conveyance controls may be required to direct run-on around or through the project in a non-erodible fashion. Temporary concentrated flow conveyance controls include the following BMPs:

**Table 3-1 Erosion Control BMPs**

BMP#	BMP Name
EC-1	Scheduling
EC-2	Preservation of Existing Vegetation
EC-3	Hydraulic Mulch <sup>1, 5</sup>
EC-4	Hydroseeding <sup>1, 5</sup>
EC-5	Soil Binders <sup>1, 5</sup>
EC-6	Straw Mulch <sup>1, 5</sup>
EC-7	Geotextiles & Mats <sup>1, 5</sup>
EC-8	Wood Mulching <sup>4</sup>
EC-9	Earth Dikes and Drainage Swales
EC-10	Velocity Dissipation Devices <sup>4, 5</sup>
EC-11	Slope Drains <sup>4</sup>
EC-12	Streambank Stabilization <sup>4</sup>
EC-13	Reserved <sup>2</sup>
EC-14	<u>Compost</u> Blankets <sup>3, 5</sup>
EC-15	Soil Preparation / Roughening <sup>3</sup>
EC-16	Non-Vegetative Stabilization <sup>3, 5</sup>

- 1) BMP fact sheet updated in 2009
- 2) BMP fact sheet removed in 2009 (formerly PAM)
- 3) New BMP fact sheet added in 2009
- 4) BMP fact sheet updated in 2011
- 5) BMP fact sheet updated in 2012